



British Heart
Foundation

Heart and Circulatory Disease Statistics 2020

**Published by the BHF in collaboration with the Institute of
Applied Health Research at the University of Birmingham**

First published April 2020. This version released June 2020.

There are **five** chapters presented here: mortality, morbidity (in two parts - incidence and prevalence), treatment, costs and risk factors

Original Excel spreadsheets, graphs and tables can be found at
bhf.org.uk/statistics

BHF Health Statistic Factsheets are available for the UK,
England, Scotland, Wales and Northern Ireland.

For referencing and content **enquiries** please [contact the BHF](#) -
mark emails for the attention of the Health Intelligence team -
we will do our best to help.

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GLOSSARY

Definitions for the terms used in this compendium

Acute coronary syndrome (ACS) - ischaemic (coronary) heart disease, a term usually used to describe a heart attack but also unstable angina.

Age-standardised rate - a measure of the rate that a population would experience if it had a standard age structure. It is useful to present rates as age-standardised, as it allows for comparisons between populations with very different age structures.

Angioplasty - a technique to widen a narrowed or obstructed blood vessel by inflating tightly folded balloons that have been passed into the narrowed location via a catheter. This technique squashes the fatty tissue that has caused the narrowing, hence widening the artery.

Atherosclerosis - a build-up of fatty deposits inside the arteries. The disease is commonly referred to as 'hardening' or 'furring' of the arteries.

Atrial fibrillation (AF) - a heart condition that causes an irregular and often abnormally fast heart rate.

Blood pressure - a measure of the force that your heart uses to pump blood around your body. It is measured in millimetres of mercury (mmHg). See also systolic/diastolic pressure, hypertension (high blood pressure).

Body mass index (BMI) - a formula relating body weight to height to assess whether a person is overweight. Adult BMI is calculated by dividing a person's weight (in kilograms) by their height (in metres) squared, e.g. a man who is 1.8m tall and weighs 90kg has a BMI of 28 ($90/(1.8 \times 1.8)$). Adults with a BMI of 25-30 are considered to be overweight. Those with a BMI of over 30 are considered obese. Children's BMI is calculated differently, taking age and gender, as well as height and weight, into account, and then compares the results with children who took part in national surveys.

British National Formulary (BNF) - a publication that provides key information on the selection, prescribing, dispensing and administration of all medicines that are generally prescribed in the UK.

Cardiovascular disease (CVD) - the collective term for all diseases affecting the heart and blood vessels - also referred to here as heart and circulatory diseases.

Cerebrovascular disease (CBVD) - the collective term for all diseases affecting blood vessels that supply the brain. Technically, stroke (and the many sub-types of stroke) is a subset of cerebrovascular disease, but the two terms are often used interchangeably.

Congenital heart disease - a heart condition or defect that develops in the womb before a baby is born.

Coronary artery bypass graft (CABG) - an operation to bypass a narrowed section of a coronary artery and improve the blood supply to the heart muscle.

Coronary heart disease (CHD) - the collective term for diseases that occur when the walls of the coronary arteries become narrowed by a gradual build-up of fatty material called atheroma. The two main forms of CHD are heart attack (also known as myocardial infarction) and angina. Also known as ischaemic heart disease (IHD).

Diabetes - a disease characterised by high blood sugar levels in blood. There are two main types: Type 1 - caused by body being unable to make the hormone insulin; Type 2 - when your body doesn't make enough insulin or can no longer use insulin properly. The resulting chronic high blood glucose levels (hyperglycaemia) are associated with long-term damage, dysfunction and failure of various organs, especially the eyes, kidneys, nerves, heart and blood vessels.

Diastolic pressure - the pressure when your heart rests between beats (see blood pressure).

Disability-Adjusted Life Years (DALYs) - the sum of years lost due to premature death (YLLs) and years lived with disability (YLDs). DALYs take into account both premature death and health-related suffering (disability) to portray the total years of healthy life lost to a disease or condition. Features in the Global Burden of Disease (GBD), a detailed analysis of international health that models the burden of diseases and their risk factors.

European Standard Population (ESP) - an artificial population structure, which is used in the weighting of mortality or incidence data to produce age-standardised rates. The ESP was updated in 2013 to better reflect the age distribution of Europe.

Heart and circulatory diseases (H&CDs) - the collective term for all diseases affecting the heart and blood vessels - also referred to here as cardiovascular disease.

Heart attack - also referred to as myocardial infarction (MI) - a condition where the heart muscle is starved of oxygen, most commonly caused by a blockage of one of the coronary arteries. A heart attack usually causes severe pain in the centre of the chest. The pain usually feels like a heaviness or tightness which may also spread to the arms, neck, jaw, face, back or stomach. There may also be sweating, light-headedness, nausea and/or shortness of breath. Sometimes a heart attack can be 'silent' and produce little or no discomfort.

Heart failure - a chronic condition which occurs when the heart is unable to pump blood as efficiently around the body. It occurs because the heart is

damaged or overworked. Some people with minor heart failure may have few or no symptoms. People with moderate or severe heart failure often suffer from a number of problems, including shortness of breath, general tiredness and swelling of the feet and ankles.

Hospital inpatient episodes - periods of continuous admitted patient care under the same consultant. These figures usually include day cases, i.e. an admission or overnight stay is not required.

Hypertension - a clinical condition of having a high blood pressure. Mostly it is considered blood pressures of 140/90 mmHg and greater to be high although this is influenced by other factors.

Incidence - a measure of morbidity based on the number of new episodes of an illness arising in a population over a defined time period.

International Classification of Disease (ICD) - a coding system published by the World Health Organization that provides an internationally recognised method of coding diseases in order to categorise mortality and morbidity statistics. Cardiovascular diseases in ICD-10 are I00-99 but some heart and circulatory conditions (e.g. congenital heart disease, vascular dementia) are coded elsewhere.

Myocardial infarction (MI) - see heart attack.

Out-of-hospital cardiac arrest (OHCA) - a critical medical emergency, where the heart stops pumping blood around the body. Unless treated immediately, it leads to death within minutes.

Percutaneous coronary intervention (PCI) - a procedure that uses a catheter (a thin flexible tube) to place a stent to open narrowed coronary arteries in the heart that have been narrowed by atherosclerosis. Previously known as angioplasty with stent.

Peripheral arterial disease (PAD) - a condition in which a build-up of fatty deposits in the arteries restricting the blood supply to parts of the body, most commonly the legs. Also known as peripheral vascular disease (PVD).

Prevalence - a measure of morbidity based on the current level of a disease in the population at any particular time.

Stent - a short tube of expandable mesh which is inserted at the part of the artery that is to be widened by coronary angioplasty. It helps to keep the artery open and prevent re-narrowing.

Stroke - the consequence of an interruption to the flow of blood to the brain. A stroke can vary in severity from a passing weakness or tingling of a limb to a profound paralysis, coma and/or death.

Systolic pressure - the pressure when your heart pumps blood out (see blood pressure).

THIN - The Health Improvement Network - a very large dataset with anonymised data from millions of patient records held by GPs; considered to be broadly representative of the UK population.

Townsend score - a measure of deprivation within a population, usually based on postcode.

Transient ischaemic attacks (TIA) - a temporary disruption in the blood supply to part of the brain. Sometimes called a mini-stroke. The effects are usually fully resolved within 24 hours.

Vascular dementia - a type of dementia caused by a reduced blood supply to an area of the brain. The cells in the affected area of the brain don't get enough oxygen or nutrients and start to die. This leads to symptoms such as concentration problems and personality changes.

Years of Life Lost (YLLs) - the number of years of life that are lost due to premature mortality. Features in the Global Burden of Disease (GBD), a detailed analysis of international health that models the burden of diseases and their risk factors.

ABOUT THE BRITISH HEART FOUNDATION

One in four of us in the UK and one in three globally die from heart and circulatory diseases. That's why the British Heart Foundation funds world-leading research into their causes, prevention, treatment and cure.

Advances from our research have saved and improved millions of lives, but heart diseases, stroke, vascular dementia and their risk factors such as diabetes still cause heartbreak on every street. With the public's support, our funding will drive the new discoveries to end that heartbreak.

We are the **biggest** independent funder of heart and circulatory disease research in the UK.

Find out more at bhf.org.uk





bhf.org.uk/statistics

please note tables 1.29 and 1.31 have been republished in June 2020 due to data errors

Heart and Circulatory Disease Statistics 2020 - Chapter 1 - Mortality

This chapter presents heart and circulatory diseases (CVD) in the context of mortality: local, regional and seasonal differences and trends over time in CVD, coronary heart disease (CHD) and stroke (CBVD).

MORTALITY BY CAUSE

[T1.1](#) Deaths by cause, by gender and age, United Kingdom 2018

[T1.2](#) Deaths by cause, all ages and under 75s by gender, England, Wales, Scotland and Northern Ireland 2018

TRENDS IN MORTALITY

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[T1.4](#) Age-standardised death rates from all heart and circulatory diseases, under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 1969 to 2018

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EXCESS WINTER MORTALITY

[T1.15](#) Excess winter mortality for CVD, England and Wales, 2007/08 to 2017/18

[T1.16](#) Excess winter mortality for CVD and CHD by gender and age, England 2010/2011 to 2018/19

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[T1.20](#) Numbers of deaths and age-standardised death rates from all heart and circulatory diseases in men and women, all ages by region and nation, United Kingdom 2016/18

[T1.21](#) Numbers of deaths and age-standardised death rates from all heart and circulatory diseases in men and women, under 75, by region and nation, United Kingdom 2016/18

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[T1.27](#) Heart and circulatory disease (CVD) mortality rates and number of deaths, under 75 by local authority, United Kingdom latest available

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GLOBAL MORTALITY

[T1.32](#) Deaths and mortality rates for heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations, 2017

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Table 1.1 Deaths by cause, by gender and age, United Kingdom 2018

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		All ages	Under 35	35-44	45-54	55-64	65-74	75-84	85+
All causes	MEN	304,373	7,458	6,448	15,268	29,185	60,135	92,028	93,851
	WOMEN	311,641	4,188	3,761	10,000	20,281	43,369	81,949	148,093
	Total	616,014	11,646	10,209	25,268	49,466	103,504	173,977	241,944
All heart and circulatory diseases (I00-I99, C38.0, F01, G45, P29, Q20-Q28)	MEN	85,897	546	1,123	3,932	8,148	16,276	26,909	28,963
	WOMEN	81,219	338	496	1,517	3,325	8,560	21,577	45,406
	Total	167,116	884	1,619	5,449	11,473	24,836	48,486	74,369
Diseases of the circulatory system (I00-I99)	MEN	79,275	444	1,102	3,896	8,069	15,845	24,683	25,236
	WOMEN	71,408	259	479	1,494	3,285	8,231	19,369	38,291
	Total	150,683	703	1,581	5,390	11,354	24,076	44,052	63,527
Chronic rheumatic heart diseases (I05-I09)	MEN	323	3	8	17	31	61	97	106
	WOMEN	630	4	5	15	34	92	199	281
	Total	953	7	13	32	65	153	296	387
Hypertensive diseases (I10-I15)	MEN	3,445	2	43	172	334	615	952	1,327
	WOMEN	4,568	3	13	60	152	408	1,027	2,905
	Total	8,013	5	56	232	486	1,023	1,979	4,232
Coronary heart disease (I20-I25)	MEN	40,395	91	505	2,310	5,124	9,414	12,251	10,700
	WOMEN	23,737	23	124	504	1,476	3,396	6,980	11,234
	Total	64,132	114	629	2,814	6,600	12,810	19,231	21,934
Myocardial infarction (I21-I22)	MEN	15,143	47	226	1,004	2,119	3,642	4,604	3,501
	WOMEN	9,456	17	66	217	638	1,499	3,029	3,990
	Total	24,599	64	292	1,221	2,757	5,141	7,633	7,491
Other heart diseases (I26-I52)	MEN	13,394	211	270	589	940	1,926	3,930	5,528
	WOMEN	16,374	128	146	320	564	1,358	3,878	9,980
	Total	29,768	339	416	909	1,504	3,284	7,808	15,508
Stroke (I60-I69)	MEN	15,478	63	153	501	1,007	2,493	5,306	5,955
	WOMEN	20,568	64	113	410	758	2,114	5,559	11,550
	Total	36,046	127	266	911	1,765	4,607	10,865	17,505
Diseases of arteries, arterioles and capillaries (I70-I79)	MEN	4,855	33	46	145	368	1,000	1,804	1,459
	WOMEN	3,955	15	18	56	130	527	1,284	1,925
	Total	8,810	48	64	201	498	1,527	3,088	3,384
Diseases of veins, lymphatic vessels and lymph nodes* (I80-I89)	MEN	1,375	40	77	162	265	335	339	157
	WOMEN	1,567	22	60	129	171	336	438	411
	Total	2,942	62	137	291	436	671	777	568
Malignant neoplasm: Heart (C38.0)	MEN	8	1	2	1	-	1	3	-
	WOMEN	4	-	-	-	1	2	1	-
	Total	12	1	2	1	1	3	4	-
Vascular dementia (F01)	MEN	6,321	-	-	-	39	395	2,189	3,698
	WOMEN	9,558	-	-	3	15	297	2,177	7,066
	Total	15,879	-	-	3	54	692	4,366	10,764
Transient cerebral ischaemic attacks and related syndromes (G45)	MEN	12	-	-	-	-	-	2	10
	WOMEN	33	-	-	-	-	1	4	28
	Total	45	-	-	-	-	1	6	38
Cardiovascular disorders originating in the perinatal period (P29)	MEN	3	3	-	-	-	-	-	-
	WOMEN	7	7	-	-	-	-	-	-
	Total	10	10	-	-	-	-	-	-
Congenital malformations of the circulatory system (Q20-Q28)	MEN	278	98	19	35	40	35	32	19
	WOMEN	209	72	17	20	24	29	26	21
	Total	487	170	36	55	64	64	58	40
Cancer (C00-D48)	MEN	91,210	645	991	4,046	11,335	24,895	30,067	19,231
	WOMEN	79,782	693	1,347	4,490	10,184	19,552	24,385	19,131
	Total	170,992	1,338	2,338	8,536	21,519	44,447	54,452	38,362
Lung cancer (C33, C34)	MEN	18,611	14	95	770	2,473	6,142	6,349	2,768
	WOMEN	16,032	10	73	613	2,246	5,122	5,234	2,734
	Total	34,643	24	168	1,383	4,719	11,264	11,583	5,502
Breast cancer (C50)	MEN	94	-	2	3	11	28	28	22
	WOMEN	11,548	117	437	1,308	1,788	2,378	2,766	2,754
	Total	11,642	117	439	1,311	1,799	2,406	2,794	2,776
Respiratory disease (J00-J99)	MEN	41,742	223	270	946	2,502	7,607	13,881	16,313
	WOMEN	44,315	145	169	697	2,080	6,312	12,675	22,237
	Total	86,057	368	439	1,643	4,582	13,919	26,556	38,550
Lower respiratory disease (J40 - J47)	MEN	18,009	42	66	383	1,332	4,443	6,749	4,994
	WOMEN	18,803	25	51	343	1,234	4,158	6,788	6,204
	Total	36,812	67	117	726	2,566	8,601	13,537	11,198
Diabetes (E10-E14)	MEN	3,960	64	107	211	381	760	1,178	1,259
	WOMEN	3,660	40	35	112	218	467	1,023	1,765
	Total	7,620	104	142	323	599	1,227	2,201	3,024
Unspecified dementia and Alzheimer's (F03, G30)	MEN	20,268	1	-	6	112	1,269	6,530	12,350
	WOMEN	41,863	-	-	10	161	1,414	9,384	30,894
	Total	62,131	1	-	16	273	2,683	15,914	43,244
All other causes	MEN	61,304	5,980	3,959	6,128	6,707	9,329	13,466	15,735
	WOMEN	60,806	2,972	1,714	3,174	4,314	7,066	12,906	28,660
	Total	122,110	8,952	5,673	9,302	11,021	16,395	26,372	44,395

Notes: ICD-10 codes in parentheses.

*Not classified elsewhere

This table compiles data from the four countries of the UK. England and Wales data from NOMIS includes non-resident mortality.

#these tables exclude deaths before 28 days, so neonatal deaths from congenital heart anomalies are excluded here

Sources: England and Wales, Office for National Statistics (2019) Deaths registered by cause, gender and age.

https://www.nomisweb.co.uk/home/release_group.asp?g=23

Scotland, National Records of Scotland (2019) Deaths, by gender, age and cause.

<https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/general-publications/vital-events-reference-tables/2018>

Northern Ireland, Statistics and Research Agency (2019) Deaths by sex, age and cause

<https://www.nisra.gov.uk/publications/registrars-general-annual-report-2018-cause-death>

Table 1.2 Deaths by cause, by gender and age, England, Wales, Scotland and Northern Ireland 2018

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		All ages				Under 75			
		England	Wales	Scotland	Northern Ireland	England	Wales	Scotland	Northern Ireland
All causes	MEN	250,012	17,150	28,642	7,771	95,393	6,641	12,574	3,288
	WOMEN	255,847	17,256	29,861	8,151	65,274	4,636	9,027	2,318
	Total	505,859	34,406	58,503	15,922	160,667	11,277	21,601	5,606
All heart and circulatory diseases (I00-I99, C38.0, F01, G45, P29, Q20-Q28)	MEN	70,168	4,907	8,516	2,005	24,238	1,750	3,107	724
	WOMEN	66,149	4,469	8,486	1,933	11,343	857	1,568	361
	Total	136,317	9,376	17,002	3,938	35,581	2,607	4,675	1,085
Diseases of the circulatory system (I00-I99)	MEN	64,874	4,572	7,658	1,876	23,708	1,717	3,025	705
	WOMEN	58,340	3,972	7,165	1,751	10,980	822	1,492	348
	Total	123,214	8,544	14,823	3,627	34,688	2,539	4,517	1,053
Chronic rheumatic heart diseases (I05-I09)	MEN	264	23	24	11	95	11	8	5
	WOMEN	474	36	94	21	103	10	31	2
	Total	738	59	118	32	198	21	39	7
Hypertensive diseases (I10-I15)	MEN	2,993	128	227	88	1,009	46	69	33
	WOMEN	3,842	192	391	138	520	31	58	24
	Total	6,835	320	618	226	1,529	77	127	57
Coronary heart disease (I20-I25)	MEN	32,862	2,399	3,994	959	14,025	1,033	1,841	423
	WOMEN	19,127	1,351	2,621	563	4,336	349	650	140
	Total	51,989	3,750	6,615	1,522	18,361	1,382	2,491	563
Myocardial infarction (I21-I22)	MEN	11,259	854	2,372	580	5,306	379	1,047	257
	WOMEN	6,931	498	1,651	342	1,796	127	411	81
	Total	18,190	1,352	4,023	922	7,102	506	1,458	338
Other heart diseases (I26-I52)	MEN	11,090	726	1,227	317	3,186	223	412	93
	WOMEN	13,638	887	1,404	412	2,043	154	247	56
	Total	24,728	1,613	2,631	729	5,229	377	659	149
Stroke (I60-I69)	MEN	12,520	901	1,621	395	3,393	236	462	100
	WOMEN	16,612	1,169	2,210	532	2,763	189	378	101
	Total	29,132	2,070	3,831	927	6,156	425	840	201
Diseases of arteries, arterioles and capillaries (I70-I79)	MEN	3,978	286	483	86	1,278	92	170	36
	WOMEN	3,270	230	375	69	604	43	81	14
	Total	7,248	516	858	155	1,882	135	251	50
Diseases of veins, lymphatic vessels and lymph nodes* (I80-I89)	MEN	1,158	109	81	20	720	76	63	15
	WOMEN	1,371	106	68	16	611	46	47	11
	Total	2,529	215	149	36	1,331	122	110	26
Malignant neoplasm: Heart (C38.0)	MEN	7	1	0		4	1	0	
	WOMEN	4	0	0		3	0	0	
	Total	11	1	0		7	1	0	
Vascular dementia (F01)	MEN	5,044	323	835	118	337	26	62	9
	WOMEN	7,606	486	1,291	174	230	27	51	7
	Total	12,650	809	2,126	292	567	53	113	16
Transient cerebral ischaemic attacks and related syndromes (G45)	MEN	10	0	1	1	0	0	0	0
	WOMEN	29	0	3	1	0	0	1	0
	Total	39	0	4	2	0	0	1	0
Cardiovascular disorders originating in the perinatal period (P29)	MEN	2	0	1	0	2	0	1	0
	WOMEN	3	0	4	0	3	0	4	0
	Total	5	0	5	0	5	0	5	0
Congenital malformations of the circulatory system (Q20-Q28)	MEN	231	11	21	10	187	6	19	10
	WOMEN	167	11	23	7	127	8	20	6
	Total	398	22	44	17	314	14	39	16
All cancer (C00-D48)	MEN	75,106	5,048	8,528	2,376	34,185	2,293	4,172	1,146
	WOMEN	65,085	4,326	8,047	2,173	29,398	1,951	3,804	1,001
	Total	140,191	9,374	16,575	4,549	63,583	4,244	7,976	2,147
Lung cancer (C33,C34)	MEN	15,021	1,025	1,981	560	7,592	528	1,059	295
	WOMEN	12,661	875	1,999	477	6,333	443	1,012	265
	Total	27,682	1,900	3,980	1,037	13,925	971	2,071	560
Breast cancer (C50)	MEN	78	4	8	3	36	2	4	1
	WOMEN	9,562	637	993	324	4,943	326	566	166
	Total	9,640	641	1,001	327	4,979	328	570	167
Respiratory disease (J00-J99)	MEN	34,825	2,608	3,221	1,027	9,573	724	919	297
	WOMEN	36,334	2,836	3,907	1,174	7,488	641	960	277
	Total	71,159	5,444	7,128	2,201	17,061	1,365	1,879	574
Lower respiratory disease (J40 - J47)	MEN	14,973	1,059	1,495	462	5,176	378	551	150
	WOMEN	15,188	1,095	1,974	526	4,539	382	691	190
	Total	30,161	2,154	3,469	988	9,715	760	1,242	340
Diabetes (E10-E14)	MEN	3,059	210	565	124	1,111	85	276	50
	WOMEN	2,871	201	468	114	646	45	149	28
	Total	5,930	411	1,033	238	1,757	130	425	78
Unspecified dementia and Alzheimer's (F03, G30)	MEN	17,270	1,105	1,352	532	1,158	70	115	43
	WOMEN	35,467	2,153	3,006	1,224	1,310	82	139	54
	Total	52,737	3,258	4,358	1,756	2,468	152	254	97
All other causes	MEN	49,591	3,273	6,460	1,707	25,132	1,720	3,985	1,028
	WOMEN	49,945	3,271	5,947	1,533	15,092	1,060	2,407	597
	Total	99,536	6,544	12,407	3,240	40,224	2,780	6,392	1,625

Notes: ICD-10 codes in parentheses.

*Not classified elsewhere

This table compiles data from the four countries of the UK. Excludes non-resident mortality.

#these tables exclude deaths before 28 days, so neonatal deaths from congenital heart anomalies are excluded here

Sources: England and Wales, Office for National Statistics (2018) Deaths registered by cause, gender and age.

https://www.nomisweb.co.uk/home/release_group.asp?g=23

Scotland, National Records of Scotland (2018) Deaths, by gender, age and cause.

<https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/general-publications/vital-events-reference-tables/2017>

Northern Ireland, Statistics and Research Agency (2018) Deaths by sex, age and cause

<https://www.nisra.gov.uk/publications/registrars-general-annual-report-2016-cause-of-death>

Table 1.3 Age-standardised death rates per 100,000 from all heart and circulatory diseases, all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1969 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1969	1281	889	1045	1245	861	1013	1476	985	1178	1481	1066	1229	1423	1062	1218
1971	1243	840	999	1210	817	973	1372	914	1097	1417	977	1148	1508	1029	1223
1973	1245	845	1004	1209	821	976	1363	913	1092	1456	995	1176	1546	1047	1243
1975	1208	803	965	1178	784	941	1317	864	1047	1381	919	1098	1428	961	1149
1977	1145	760	916	1114	740	892	1240	823	994	1297	871	1036	1510	969	1182
1979	1152	753	914	1121	733	890	1229	797	971	1344	889	1063	1435	904	1115
1981	1072	695	848	1046	678	828	1137	737	899	1248	814	982	1247	786	974
1983	1032	664	814	1008	648	795	1127	701	872	1186	778	939	1142	743	907
1985	1014	656	803	994	641	786	1083	688	848	1163	763	920	1062	713	859
1987	933	600	737	914	585	721	973	618	762	1097	717	866	991	652	792
1989	890	578	706	867	562	688	929	608	740	1076	706	851	963	615	755
1991	853	554	677	840	543	665	878	563	695	972	653	781	866	565	690
1993	824	537	656	805	521	639	855	568	691	987	663	795	865	558	686
1994	764	499	609	749	486	595	784	522	632	907	610	730	848	570	682
1995	753	491	601	738	477	586	799	525	639	883	603	718	834	547	661
1996	737	481	588	721	469	574	773	515	624	887	581	704	789	521	627
1997	701	461	562	685	449	548	741	486	592	839	569	680	774	497	609
1998	679	452	547	665	441	535	705	469	569	802	548	654	736	486	592
1999	654	434	527	637	421	513	697	464	565	796	535	642	731	499	595
2000	615	407	495	601	395	482	647	437	528	742	505	604	653	443	532
2001	623	415	503	612	405	493	667	453	543	696	482	572	659	447	535
2002	610	409	494	599	398	483	639	445	530	701	491	577	629	437	516
2003	588	400	480	574	392	470	646	429	520	697	470	562	592	407	485
2004	544	370	445	533	360	434	560	398	469	649	449	532	561	386	461
2005	516	351	422	504	341	411	558	385	460	606	426	503	535	354	429
2006	483	328	395	473	319	386	510	352	421	562	398	467	494	347	410
2007	464	317	381	451	307	370	496	349	415	565	384	460	500	329	398
2008	450	311	372	440	303	362	488	335	401	525	377	442	479	320	384
2009	420	289	346	411	281	338	447	315	375	491	353	413	437	300	358
2010	409	278	336	399	271	327	445	303	365	483	333	397	431	285	346
2011	373	257	309	361	249	299	442	278	347	451	319	377	389	257	315
2012	367	256	305	355	248	295	448	277	348	436	321	373	373	261	311
2013	362	247	298	352	240	290	404	265	326	432	306	361	362	249	298
2014	346	234	284	338	228	277	371	250	304	414	290	344	343	229	277
2015	350	241	290	341	233	282	371	259	311	434	308	364	342	230	278
2016	335	227	276	326	220	268	360	245	297	414	288	343	319	219	263
2017	330	224	272	321	218	264	352	231	287	410	290	344	335	218	269
2018	324	217	266	315	210	258	353	232	288	404	280	335	313	209	254

Notes: For 1969 to 2003 ICD-10 codes I00-I99 only. For 2004 to 2018 ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 . Directly age-standardised using the 2013 European Standard Population. Northern Ireland coded deaths differently until 1979, therefore these under estimate the rate compared to rest of the UK.

Source: 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.
 Scotland, General Register Office (2019) Personal communication.
 Northern Ireland, Statistics and Research Agency (2019) Personal communication.
 2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.
 2015 to 2018 England and Wales: NOMIS Mortality Statistics
www.nomisweb.co.uk/articles/983.aspx

Table 1.4 Age-standardised death rates per 100,000 from all heart and circulatory diseases, under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1969 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1969	500	250	360	485	238	347	580	286	417	582	320	433	566	312	426
1971	487	233	346	472	222	334	549	263	392	573	296	416	549	294	409
1973	488	233	348	472	222	335	544	265	390	593	297	426	576	304	427
1975	475	221	336	459	211	324	543	253	384	561	276	401	567	282	410
1977	459	213	325	445	203	313	521	245	370	527	268	382	588	278	417
1979	462	211	325	447	201	314	504	230	354	545	275	395	583	279	415
1981	432	196	304	418	187	293	469	210	328	513	259	373	534	245	375
1983	417	188	293	404	179	282	464	206	324	498	246	359	495	242	356
1985	397	179	279	384	170	269	433	194	304	480	241	348	473	228	339
1987	369	168	261	358	160	251	390	181	278	453	224	327	424	200	301
1989	342	158	243	329	150	233	363	171	260	433	217	314	404	185	284
1991	319	147	227	309	141	219	337	150	237	392	196	285	353	168	252
1993	304	140	217	293	134	209	329	149	233	381	186	275	346	161	245
1994	308	144	220	297	137	212	324	155	234	383	191	278	353	173	255
1995	301	140	215	291	133	207	323	150	231	370	182	268	346	170	250
1996	289	135	207	280	130	201	310	143	222	359	170	257	310	152	224
1997	272	128	196	263	123	189	298	141	215	338	168	246	310	142	219
1998	261	124	189	253	119	182	278	129	200	326	158	235	287	129	202
1999	247	116	178	238	111	172	275	124	196	307	149	222	275	125	194
2000	231	107	166	223	103	160	248	116	179	288	138	207	238	112	170
2001	219	103	158	213	99	153	240	115	175	264	129	191	221	106	159
2002	209	98	151	202	94	146	230	109	167	252	126	184	220	104	157
2003	198	92	143	192	89	138	219	102	158	244	117	176	200	87	140
2004	183	84	132	178	81	127	192	96	142	225	109	163	192	90	138
2005	171	79	123	166	76	119	190	89	137	214	102	155	173	82	125
2006	159	74	115	155	71	112	173	79	124	195	97	144	162	81	120
2007	152	69	109	146	66	105	161	78	118	198	92	142	156	71	112
2008	143	66	103	138	63	100	152	73	112	184	86	132	144	72	106
2009	134	60	96	130	57	93	147	70	107	164	80	120	136	68	101
2010	131	58	93	127	56	90	137	64	100	162	75	116	140	64	101
2011	120	54	86	115	52	83	131	64	96	151	71	109	127	52	88
2012	114	53	82	110	51	79	125	60	91	146	70	107	117	46	80
2013	113	51	81	109	49	78	126	57	91	143	68	104	111	50	80
2014	109	49	78	106	47	76	118	55	85	134	62	96	103	48	75
2015	109	50	79	105	48	76	125	59	92	140	65	101	104	51	77
2016	107	49	77	103	47	74	120	57	88	135	65	99	100	49	74
2017	105	47	76	102	45	73	123	52	87	134	64	97	103	47	74
2018	106	47	76	103	45	73	120	56	87	129	60	93	96	45	70

Notes: For 1969 to 2003 ICD-10 codes I00-I99 only. For 2004 to 2018 ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 . Directly age-standardised using the 2013 European Standard Population. Northern Ireland coded deaths differently until 1979, therefore these under estimate the rate compared to rest of the UK.

Source: 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.
 Scotland, General Register Office (2019) Personal communication.
 Northern Ireland, Statistics and Research Agency (2019) Personal communication.
 2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.
 2015 to 2018 England and Wales: NOMIS Mortality Statistics
www.nomisweb.co.uk/articles/983.aspx

Table 1.5 Age-standardised death rates per 100,000 from coronary heart disease (CHD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1971 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1971	-	-	-	632	316	442	724	363	508	779	418	561	-	-	-
1973	-	-	-	652	331	459	739	367	516	818	440	590	-	-	-
1975	668	337	469	648	326	455	748	363	517	783	409	555	786	408	563
1977	660	333	465	640	322	450	728	349	502	765	414	553	856	428	599
1979	647	314	448	629	305	436	693	323	470	759	374	522	800	394	559
1981	626	310	437	611	301	426	664	319	456	722	374	511	747	367	522
1983	620	305	432	604	297	421	675	315	458	720	364	503	722	355	504
1985	624	316	441	611	308	431	676	328	467	713	378	509	675	360	490
1987	581	295	411	567	286	400	615	304	429	696	366	494	637	334	458
1989	552	287	395	537	278	383	587	303	418	665	360	479	628	327	448
1991	532	280	382	522	273	374	563	291	402	608	331	440	574	297	409
1993	510	269	368	498	260	358	548	291	396	599	331	439	552	294	400
1994	469	247	338	458	240	329	490	254	351	551	298	398	539	301	397
1995	458	238	328	447	231	320	489	252	349	531	291	387	527	289	383
1996	442	230	317	432	224	309	465	246	337	529	278	377	489	270	358
1997	417	218	300	407	212	292	447	225	315	489	272	359	482	253	346
1998	402	212	291	394	207	284	418	217	300	465	257	341	464	245	334
1999	383	200	276	372	193	267	418	212	299	464	252	338	446	239	323
2000	361	186	259	352	180	251	389	205	281	420	234	310	407	215	292
2001	348	181	251	340	175	244	378	201	275	399	224	295	387	211	282
2002	335	175	241	328	169	235	360	195	265	389	217	287	349	197	259
2003	321	169	233	312	164	226	357	187	257	388	207	280	340	184	248
2004	297	155	214	289	149	208	312	172	231	359	195	262	323	174	237
2005	280	145	202	271	139	195	315	164	227	337	183	247	320	164	227
2006	257	134	186	251	128	180	275	148	203	303	170	225	284	157	210
2007	246	126	177	238	122	171	265	143	197	305	155	217	283	145	201
2008	233	121	169	227	116	163	260	131	186	275	151	204	269	138	191
2009	217	109	155	211	105	150	234	122	171	258	138	188	247	132	180
2010	209	103	148	203	99	143	227	115	163	252	130	181	241	121	170
2011	189	92	134	183	88	129	210	102	148	229	120	166	213	97	146
2012	183	90	130	178	87	126	206	98	144	219	116	160	202	100	143
2013	180	87	127	175	83	123	204	97	144	210	109	152	188	96	136
2014	167	79	117	163	76	114	181	85	126	198	100	141	178	84	123
2015	166	78	117	162	75	113	182	88	131	203	102	146	173	87	123
2016	155	72	108	151	69	105	175	79	122	185	94	134	153	71	106
2017	154	70	107	150	67	104	169	77	118	186	90	132	159	71	110
2018	148	65	102	144	62	99	168	72	115	181	87	128	142	61	96

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population.

Source: 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.
 Scotland, General Register Office (2018) Personal communication.
 Northern Ireland, Statistics and Research Agency (2018) Personal communication.
 2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.
 2015 to 2018 England and Wales: NOMIS Mortality Statistics
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Table 1.6 Age-standardised death rates per 100,000 from coronary heart disease (CHD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1969 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1969	-	-	-	305	105	194	371	129	237	385	154	255	-	-	-
1971	-	-	-	305	101	193	353	122	227	383	144	248	-	-	-
1973	-	-	-	312	107	200	365	124	233	402	152	262	-	-	-
1975	320	111	206	309	105	198	371	127	238	379	144	248	390	144	255
1977	316	110	204	305	104	196	360	122	230	372	146	247	406	153	267
1979	319	111	206	308	104	198	345	120	222	384	149	254	403	155	267
1981	304	107	197	294	101	190	324	111	208	368	148	247	388	147	256
1983	298	105	194	287	99	186	332	111	212	365	146	244	366	138	241
1985	290	105	190	280	99	183	319	113	208	353	147	239	347	135	231
1987	271	100	179	261	95	172	288	108	192	338	140	229	319	124	212
1989	247	95	165	238	89	158	266	101	178	314	133	214	298	115	198
1991	230	88	154	222	84	149	246	90	163	284	120	194	265	102	176
1993	217	81	145	208	77	139	237	89	158	274	112	186	254	102	171
1994	216	81	144	208	77	139	233	89	157	273	109	184	255	105	173
1995	208	78	139	201	73	133	229	82	151	259	106	176	255	104	173
1996	199	74	133	192	70	127	216	80	145	249	97	167	230	90	154
1997	185	69	124	178	65	119	203	76	136	231	94	157	224	82	147
1998	176	66	118	170	63	114	188	69	125	222	89	150	203	75	134
1999	166	60	110	159	57	106	188	64	123	212	83	142	195	71	128
2000	153	55	102	148	52	98	167	63	112	191	75	129	168	63	111
2001	144	52	96	139	50	93	163	60	109	175	69	119	153	60	103
2002	135	49	90	130	46	86	153	55	102	165	67	113	146	55	98
2003	127	45	84	123	42	81	140	50	93	164	62	109	131	45	85
2004	116	40	77	112	38	74	121	48	83	148	56	99	130	45	85
2005	109	37	71	104	35	68	121	42	80	142	53	95	117	43	78
2006	99	34	66	96	32	63	109	37	71	125	50	86	110	41	74
2007	94	31	62	90	29	59	99	35	66	128	46	85	107	35	70
2008	88	30	58	85	28	56	93	32	62	116	42	77	94	33	62
2009	82	26	53	79	24	51	91	30	60	103	38	69	89	33	60
2010	78	25	51	75	23	49	83	27	54	101	36	67	89	29	58
2011	72	22	47	69	21	45	78	26	51	93	31	61	82	24	52
2012	68	22	45	65	21	42	75	28	51	92	31	60	75	23	48
2013	68	21	44	65	20	42	79	25	51	87	29	57	71	22	46
2014	64	20	41	62	19	40	67	23	44	80	27	53	63	22	42
2015	64	20	42	61	19	40	76	25	50	83	27	54	67	22	44
2016	62	20	40	60	18	39	73	24	48	79	29	53	57	20	38
2017	62	19	40	59	18	38	72	21	46	79	27	52	62	19	40
2018	62	18	39	60	17	38	71	23	46	76	25	50	56	18	36

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population.

Source: 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.
 Scotland, General Register Office (2018) Personal communication.
 Northern Ireland, Statistics and Research Agency (2018) Personal communication.
 2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.
 2015 to 2018 England and Wales: NOMIS Mortality Statistics
www.nomisweb.co.uk/articles/983.aspx

Table 1.7 Age-standardised death rates per 100,000 from stroke (CBVD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1969 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1969	318	290	301	307	278	290	344	330	337	400	373	384	334	327	330
1971	308	277	290	297	268	280	322	299	310	383	346	360	386	345	360
1973	304	273	285	290	263	274	333	290	306	392	346	365	413	333	360
1975	279	255	266	268	245	256	298	274	286	364	323	339	328	313	320
1977	253	236	244	243	227	235	267	272	273	317	282	295	344	314	325
1979	254	232	242	243	223	232	274	256	266	335	298	313	341	277	300
1981	229	210	219	220	201	210	245	233	241	308	273	287	240	253	252
1983	213	199	206	206	191	199	228	214	221	272	255	264	235	238	238
1985	224	204	213	219	199	208	228	220	225	272	240	253	223	189	201
1987	203	189	196	198	184	191	209	199	205	255	229	240	202	192	198
1989	195	179	187	190	174	181	194	187	192	253	228	239	198	184	191
1991	192	174	182	189	170	179	194	175	184	232	211	221	172	172	174
1993	167	156	162	160	149	154	161	156	161	241	222	231	201	165	180
1994	157	148	153	151	141	147	153	152	154	222	208	215	175	171	174
1995	156	147	152	151	141	146	165	153	159	218	206	213	174	162	168
1996	155	145	150	150	141	146	158	153	157	206	183	194	163	157	161
1997	149	139	144	144	135	140	153	142	148	203	179	189	171	150	159
1998	145	137	142	141	133	137	147	142	146	190	177	185	153	148	153
1999	139	134	137	134	130	133	141	136	140	188	174	182	165	157	161
2000	129	124	128	124	120	123	130	127	131	188	170	179	134	139	141
2001	147	135	141	144	132	138	152	143	148	179	165	172	151	140	146
2002	148	135	141	145	131	138	148	145	148	176	169	173	147	142	145
2003	142	132	137	138	129	134	156	137	145	175	161	168	146	135	140
2004	128	120	125	125	117	121	124	127	128	165	151	158	136	124	129
2005	120	114	117	117	111	114	122	115	120	147	142	146	117	110	114
2006	114	106	110	111	103	107	122	109	114	138	130	135	117	109	114
2007	107	102	105	104	99	102	113	105	110	136	125	131	116	109	112
2008	105	100	103	102	97	100	106	108	109	131	125	129	114	107	109
2009	96	92	95	94	89	92	100	101	102	117	116	117	95	94	96
2010	94	89	92	91	87	90	101	95	98	115	105	110	100	93	97
2011	78	73	76	75	70	73	77	75	77	104	101	104	82	83	84
2012	74	72	74	71	69	71	80	74	77	96	98	99	77	81	81
2013	72	68	70	69	65	67	82	71	76	99	93	97	82	76	79
2014	70	64	67	67	61	64	79	71	75	88	86	87	76	66	71
2015	69	65	67	67	63	65	68	70	70	92	88	90	76	64	69
2016	65	59	62	63	57	60	66	66	67	89	82	85	74	63	67
2017	61	57	59	60	55	57	60	58	60	81	77	79	71	61	66
2018	60	55	57	57	53	55	66	60	63	80	73	76	65	58	61

Notes: ICD-10 codes I60-I69. Directly age-standardised using the 2013 European Standard Population.

Source: 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.
 Scotland, General Register Office (2018) Personal communication.
 Northern Ireland, Statistics and Research Agency (2018) Personal communication.
 2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.
 2015 to 2018 England and Wales: NOMIS Mortality Statistics
www.nomisweb.co.uk/articles/983.aspx

Table 1.8 Age-standardised death rates per 100,000 from stroke (CBVD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1969 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1969	97	76	85	93	72	81	109	89	98	120	104	111	103	93	97
1971	92	72	81	88	68	76	108	80	92	122	97	107	102	97	100
1973	90	68	78	85	64	73	100	79	88	122	91	104	107	90	98
1975	84	63	72	79	59	68	98	69	81	118	87	100	99	81	89
1977	76	59	67	73	56	64	85	71	77	95	78	85	95	74	83
1979	76	57	66	72	54	62	85	64	73	102	79	89	96	74	84
1981	67	51	58	64	48	55	76	57	65	92	73	81	76	59	67
1983	62	48	54	60	45	52	68	53	60	83	66	73	72	69	71
1985	61	46	52	58	44	50	65	51	58	81	62	70	69	54	60
1987	55	42	48	53	40	46	56	45	50	73	54	62	58	43	50
1989	51	39	45	49	37	42	51	44	47	72	55	63	60	43	51
1991	49	36	42	47	34	40	53	36	44	65	48	55	48	42	45
1993	42	32	37	40	30	35	41	32	36	62	47	54	46	33	39
1994	44	34	38	42	32	36	41	36	39	63	51	57	53	41	46
1995	43	33	38	41	32	36	44	34	38	64	46	54	46	38	42
1996	43	32	37	41	31	36	43	34	39	57	39	47	44	33	38
1997	41	31	36	39	30	34	45	33	39	54	40	47	47	33	39
1998	40	30	34	38	29	33	43	32	37	53	38	44	45	31	37
1999	37	29	33	36	28	32	40	29	35	47	37	42	43	32	37
2000	34	26	30	32	25	29	38	25	31	49	36	42	33	26	29
2001	35	26	30	34	25	30	34	27	31	44	34	39	30	25	27
2002	35	25	30	34	24	29	36	29	32	42	33	37	38	27	32
2003	32	24	28	31	23	27	35	27	31	41	31	36	33	21	27
2004	29	22	25	29	21	25	29	24	26	37	28	32	30	24	26
2005	27	20	23	26	20	23	28	22	25	33	26	29	27	18	22
2006	25	19	22	24	18	21	26	20	23	33	24	28	26	19	23
2007	23	18	20	22	17	19	26	20	23	31	22	26	20	20	20
2008	22	16	19	21	15	18	24	19	21	33	23	27	22	19	21
2009	20	15	18	19	14	17	20	17	18	27	21	24	20	15	17
2010	20	15	17	20	14	17	19	17	18	25	18	21	22	18	20
2011	18	13	16	17	13	15	20	16	18	26	18	21	20	14	17
2012	16	13	15	16	13	14	20	14	17	22	18	20	16	11	14
2013	17	12	14	16	12	14	17	13	15	23	18	20	15	14	15
2014	16	12	14	16	12	14	19	13	16	19	16	17	17	11	14
2015	16	12	14	15	12	13	15	14	14	21	16	18	15	13	14
2016	16	12	14	15	12	13	17	14	15	21	16	19	17	14	15
2017	15	11	13	14	11	12	17	12	14	19	14	16	15	12	14
2018	15	11	13	14	11	13	16	12	14	19	15	17	14	13	13

Notes: ICD-10 codes I60-I69. Directly age-standardised using the 2013 European Standard Population.

Source: 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.
Scotland, General Register Office (2018) Personal communication.
Northern Ireland, Statistics and Research Agency (2018) Personal communication.
2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.
2015 to 2018 England and Wales: NOMIS Mortality Statistics
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Table 1.9 Number of deaths from all heart and circulatory diseases, all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1961	153,695	169,222	322,917	124,754	139,438	264,192	8,798	8,851	17,649	16,642	17,905	34,547	3,501	3,028	6,529
1971	163,756	171,921	335,677	133,300	140,967	274,267	9,428	9,336	18,764	16,452	17,277	33,729	4,576	4,341	8,917
1981	160,681	166,555	327,236	131,342	136,151	267,493	8,863	9,011	17,874	16,033	17,181	33,214	4,443	4,212	8,655
1991	142,348	154,750	297,098	117,459	127,315	244,774	7,849	8,326	16,175	13,630	15,536	29,166	3,410	3,573	6,983
1994	131,298	143,676	274,974	108,068	117,492	225,560	7,258	8,007	15,265	12,660	14,478	27,138	3,312	3,699	7,011
1995	131,525	143,637	275,162	108,239	117,268	225,507	7,457	8,197	15,654	12,507	14,572	27,079	3,322	3,600	6,922
1996	129,740	141,757	271,497	106,669	116,023	222,692	7,324	8,127	15,451	12,593	14,129	26,722	3,154	3,478	6,632
1997	124,768	136,549	261,317	102,490	111,612	214,102	7,093	7,704	14,797	12,018	13,892	25,910	3,167	3,341	6,508
1998	122,217	134,492	256,709	100,593	110,256	210,849	6,836	7,506	14,342	11,719	13,433	25,152	3,069	3,297	6,366
1999	118,886	129,739	248,625	97,407	105,731	203,138	6,844	7,437	14,281	11,606	13,181	24,787	3,029	3,390	6,419
2000	113,559	122,913	236,472	93,323	100,228	193,551	6,416	7,073	13,489	11,058	12,599	23,657	2,762	3,013	5,775
2001	114,335	125,931	240,266	94,568	103,320	197,888	6,549	7,334	13,883	10,455	12,211	22,666	2,763	3,066	5,829
2002	112,879	124,933	237,812	93,407	102,326	195,733	6,391	7,271	13,662	10,405	12,283	22,688	2,676	3,053	5,729
2003	110,085	122,635	232,720	90,696	100,991	191,687	6,446	7,039	13,485	10,379	11,721	22,100	2,564	2,884	5,448
2004	103,833	113,935	217,768	85,576	93,180	178,756	5,745	6,555	12,300	9,989	11,436	21,425	2,523	2,764	5,287
2005	100,256	109,462	209,718	82,362	89,494	171,856	5,812	6,406	12,218	9,642	10,972	20,614	2,440	2,590	5,030
2006	95,642	103,664	199,306	78,872	84,737	163,609	5,413	5,940	11,353	9,038	10,401	19,439	2,319	2,586	4,905
2007	93,828	101,279	195,107	76,788	82,751	159,539	5,410	5,935	11,345	9,279	10,080	19,359	2,351	2,513	4,864
2008	92,124	100,310	192,434	75,713	82,152	157,865	5,293	5,750	11,043	8,815	9,935	18,750	2,303	2,473	4,776
2009	88,400	94,312	182,712	72,838	77,125	149,963	5,038	5,466	10,504	8,366	9,365	17,731	2,158	2,356	4,514
2010	88,240	92,724	180,964	72,515	75,979	148,494	5,053	5,374	10,427	8,454	9,087	17,541	2,218	2,284	4,502
2011	82,512	87,347	169,859	67,542	71,478	139,020	4,758	4,870	9,628	8,147	8,885	17,032	2,065	2,114	4,179
2012	83,025	88,630	171,655	68,052	72,304	140,356	4,862	5,034	9,896	8,081	9,094	17,175	2,030	2,198	4,228
2013	84,301	86,834	171,135	68,891	70,925	139,816	4,967	4,924	9,891	8,147	8,723	16,870	2,021	2,116	4,137
2014	83,123	84,190	167,313	68,314	68,749	137,063	4,685	4,712	9,397	8,008	8,449	16,457	1,971	1,998	3,969
2015	85,912	86,965	172,877	70,256	70,887	141,143	4,815	4,883	9,698	8,519	9,001	17,520	2,019	2,044	4,063
2016	84,409	83,209	167,618	69,090	67,841	136,931	4,753	4,656	9,409	8,342	8,548	16,890	1,947	1,991	3,938
2017	85,423	83,118	168,541	69,715	67,790	137,505	4,804	4,426	9,230	8,499	8,743	17,242	2,111	1,997	4,108
2018	85,897	81,219	167,116	70,168	66,149	136,317	4,907	4,469	9,376	8,516	8,486	17,002	2,005	1,933	3,938

Notes: For 1969 to 2003 ICD-10 codes I00-I99 only. For 2004 to 2018 ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 . Directly age-standardised using the 2013 European Standard Population.
United Kingdom figures from 2013 are greater than the sum of the figures for England, Wales, Scotland, and Northern Ireland as they include non-residents.
Northern Ireland coded deaths differently until 1979, therefore these under estimate the rate compared to rest of the UK.

Source: 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.
Scotland, General Register Office (2019) Personal communication.
Northern Ireland, Statistics and Research Agency (2019) Personal communication.
2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.
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Table 1.10 Number of deaths from all heart and circulatory diseases, under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1961	89,005	65,477	154,482	71,889	52,676	124,565	5,305	3,711	9,016	9,840	7,852	17,692	1,971	1,238	3,209
1971	101,717	61,060	162,777	82,412	48,572	130,984	6,016	3,576	9,592	10,611	7,172	17,783	2,678	1,740	4,418
1981	95,434	52,900	148,334	77,512	42,029	119,541	5,391	2,982	8,373	9,867	6,374	16,241	2,664	1,515	4,179
1991	70,075	37,964	108,039	56,793	30,212	87,005	4,040	2,128	6,168	7,412	4,565	11,977	1,830	1,059	2,889
1994	64,153	35,105	99,258	51,918	27,860	79,778	3,655	2,050	5,705	6,862	4,173	11,035	1,718	1,022	2,740
1995	62,249	33,471	95,720	50,349	26,594	76,943	3,608	1,951	5,559	6,602	3,920	10,522	1,690	1,006	2,696
1996	59,600	31,862	91,462	48,227	25,477	73,704	3,451	1,839	5,290	6,398	3,643	10,041	1,524	903	2,427
1997	56,172	30,057	86,229	45,292	23,852	69,144	3,306	1,789	5,095	6,038	3,576	9,614	1,536	840	2,376
1998	54,116	28,825	82,941	43,716	23,069	66,785	3,088	1,620	4,708	5,866	3,370	9,236	1,446	766	2,212
1999	51,485	26,929	78,414	41,479	21,464	62,943	3,050	1,538	4,588	5,564	3,180	8,744	1,392	747	2,139
2000	48,438	24,974	73,412	39,204	19,913	59,117	2,761	1,433	4,194	5,243	2,957	8,200	1,230	671	1,901
2001	46,425	23,996	70,421	37,717	19,176	56,893	2,690	1,427	4,117	4,864	2,752	7,616	1,154	641	1,795
2002	44,723	22,940	67,663	36,254	18,247	54,501	2,610	1,349	3,959	4,699	2,712	7,411	1,160	632	1,792
2003	42,969	21,823	64,792	34,747	17,476	52,223	2,524	1,275	3,799	4,618	2,538	7,156	1,080	534	1,614
2004	40,289	20,114	60,403	32,658	15,966	48,624	2,247	1,215	3,462	4,320	2,375	6,695	1,064	558	1,622
2005	38,206	18,977	57,183	30,804	15,091	45,895	2,248	1,123	3,371	4,174	2,248	6,422	980	515	1,495
2006	35,982	17,909	53,891	29,083	14,224	43,307	2,081	1,020	3,101	3,872	2,150	6,022	946	515	1,461
2007	34,793	16,935	51,729	27,889	13,421	41,310	1,984	1,008	2,992	3,983	2,044	6,028	937	462	1,399
2008	33,510	16,388	49,898	26,959	12,989	39,948	1,907	970	2,877	3,763	1,956	5,719	881	473	1,354
2009	31,995	15,282	47,277	25,863	12,046	37,909	1,871	943	2,814	3,414	1,837	5,251	847	456	1,303
2010	31,763	14,921	46,684	25,680	11,888	37,568	1,771	868	2,639	3,415	1,726	5,141	897	439	1,336
2011	29,389	13,965	43,354	23,622	11,097	34,719	1,707	871	2,578	3,236	1,642	4,878	824	355	1,179
2012	28,482	13,942	42,424	22,860	11,113	33,973	1,650	839	2,489	3,194	1,659	4,853	778	331	1,109
2013	29,082	13,758	42,840	23,248	10,871	34,119	1,704	814	2,518	3,167	1,626	4,793	757	364	1,121
2014	28,538	13,475	42,013	22,990	10,723	33,713	1,622	790	2,412	3,001	1,520	4,521	722	356	1,078
2015	29,125	14,112	43,237	23,263	11,167	34,430	1,744	866	2,610	3,168	1,602	4,770	738	380	1,118
2016	29,214	14,160	43,374	23,438	11,204	34,642	1,697	848	2,545	3,151	1,622	4,773	726	383	1,109
2017	29,485	14,001	43,486	23,568	11,124	34,692	1,772	786	2,558	3,186	1,629	4,815	768	366	1,134
2018	30,025	14,236	44,261	24,238	11,343	35,581	1,750	857	2,607	3,107	1,568	4,675	724	361	1,085

Notes: For 1969 to 2003 ICD-10 codes I00-I99 only. For 2004 to 2018 ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 . Directly age-standardised using the 2013 European Standard Population.
United Kingdom figures from 2013 are greater than the sum of the figures for England, Wales, Scotland, and Northern Ireland as they include non-residents.
Northern Ireland coded deaths differently until 1979, therefore these under estimate the rate compared to rest of the UK.

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2015 onwards England and Wales: NOMIS Mortality Statistics
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Table 1.11 Number of deaths from coronary heart disease (CHD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1961	-	-	-	72,570	64,355	136,925	5,070	4,012	9,082	10,312	8,897	19,209	-	-	-
1971	-	-	-	77,521	56,244	133,765	5,515	3,844	9,359	10,027	7,629	17,656	-	-	-
1981	101,870	76,122	177,992	83,139	61,889	145,028	5,586	4,016	9,602	10,272	8,181	18,453	2,873	2,036	4,909
1991	92,502	78,089	170,591	75,954	64,006	139,960	5,242	4,300	9,542	8,963	7,903	16,866	2,343	1,880	4,223
1994	83,418	70,544	153,962	68,364	57,597	125,961	4,716	3,883	8,599	8,133	7,101	15,234	2,205	1,963	4,168
1995	82,469	69,126	151,595	67,639	56,245	123,884	4,734	3,914	8,648	7,921	7,056	14,977	2,175	1,911	4,086
1996	80,388	67,336	147,724	65,888	54,902	120,790	4,564	3,867	8,431	7,887	6,760	14,647	2,049	1,807	3,856
1997	76,489	64,069	140,558	62,668	52,180	114,848	4,403	3,531	7,934	7,354	6,658	14,012	2,064	1,700	3,764
1998	74,542	62,610	137,152	61,253	51,211	112,464	4,174	3,442	7,616	7,119	6,299	13,418	1,996	1,658	3,654
1999	71,773	59,188	130,961	58,496	47,965	106,461	4,219	3,376	7,595	7,122	6,215	13,337	1,936	1,632	3,568
2000	68,310	55,727	124,037	56,024	45,137	101,161	3,937	3,293	7,230	6,578	5,834	12,412	1,771	1,463	3,234
2001	66,400	54,491	120,891	54,567	44,144	98,711	3,882	3,236	7,118	6,258	5,656	11,914	1,693	1,455	3,148
2002	64,473	53,003	117,476	52,938	42,960	95,898	3,776	3,162	6,938	6,190	5,502	11,692	1,569	1,379	2,948
2003	62,399	51,495	113,894	50,986	41,890	92,876	3,681	3,054	6,735	6,199	5,241	11,440	1,533	1,310	2,843
2004	58,565	47,289	105,854	47,914	38,267	86,181	3,313	2,807	6,120	5,814	4,964	10,778	1,524	1,251	2,775
2005	56,135	44,821	100,956	45,628	36,193	81,821	3,375	2,721	6,096	5,629	4,702	10,331	1,503	1,205	2,708
2006	52,594	41,818	94,412	43,086	33,725	76,811	3,020	2,493	5,513	5,099	4,433	9,532	1,389	1,167	2,556
2007	51,386	40,088	91,474	41,731	32,468	74,199	3,002	2,436	5,438	5,260	4,083	9,343	1,393	1,101	2,494
2008	49,472	38,498	87,970	40,338	31,194	71,532	2,931	2,256	5,187	4,852	3,989	8,841	1,351	1,059	2,410
2009	47,149	35,379	82,528	38,531	28,564	67,095	2,744	2,110	4,854	4,600	3,674	8,274	1,274	1,031	2,305
2010	46,430	33,909	80,339	37,873	27,371	65,244	2,687	2,036	4,723	4,599	3,539	8,138	1,271	963	2,234
2011	43,040	30,764	73,804	34,993	24,835	59,828	2,551	1,823	4,374	4,320	3,316	7,636	1,176	790	1,966
2012	42,677	30,796	73,473	34,726	24,899	59,625	2,555	1,777	4,332	4,258	3,283	7,541	1,138	837	1,975
2013	43,057	29,970	73,027	35,036	24,243	59,279	2,588	1,776	4,364	4,155	3,084	7,239	1,105	811	1,916
2014	41,364	27,799	69,163	33,802	22,562	56,364	2,348	1,575	3,923	3,989	2,883	6,872	1,056	726	1,782
2015	41,959	27,826	69,785	34,103	22,390	56,493	2,447	1,638	4,085	4,168	2,974	7,142	1,060	765	1,825
2016	40,297	25,779	66,076	32,856	20,812	53,668	2,382	1,475	3,857	3,917	2,780	6,697	962	640	1,602
2017	40,974	25,367	66,341	33,327	20,525	53,852	2,383	1,438	3,821	4,034	2,693	6,727	1,045	646	1,691
2018	40,395	23,737	64,132	32,862	19,127	51,989	2,399	1,351	3,750	3,994	2,621	6,615	959	563	1,522

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population.
United Kingdom figures from 2013 are greater than the sum of the figures for England, Wales, Scotland, and Northern Ireland as they include non-residents.

Source: 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.
Scotland, General Register Office (2017) Personal communication.
Northern Ireland, Statistics and Research Agency (2017) Personal communication.
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Table 1.12 Number of deaths from coronary heart disease (CHD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1961	-	-	-	44,417	22,457	66,874	3,274	1,573	4,847	6,588	3,691	10,279	-	-	-
1971	-	-	-	53,972	22,192	76,164	3,916	1,669	5,585	7,187	3,504	10,691	-	-	-
1981	67,349	28,843	96,192	54,580	22,733	77,313	3,733	1,567	5,300	7,095	3,633	10,728	1,941	910	2,851
1991	50,530	22,736	73,266	40,813	18,024	58,837	2,951	1,282	4,233	5,391	2,795	8,186	1,375	635	2,010
1994	45,027	19,784	64,811	36,263	15,596	51,859	2,627	1,184	3,811	4,895	2,385	7,280	1,242	619	1,861
1995	43,097	18,551	61,648	34,669	14,598	49,267	2,560	1,058	3,618	4,626	2,282	6,908	1,242	613	1,855
1996	40,927	17,327	58,254	32,957	13,691	46,648	2,406	1,029	3,435	4,434	2,078	6,512	1,130	529	1,659
1997	38,105	16,090	54,195	30,620	12,643	43,263	2,243	958	3,201	4,135	2,006	6,141	1,107	483	1,590
1998	36,540	15,304	51,844	29,425	12,096	41,521	2,088	864	2,952	4,000	1,901	5,901	1,027	443	1,470
1999	34,528	13,982	48,510	27,605	11,012	38,617	2,086	789	2,875	3,844	1,761	5,605	993	420	1,413
2000	32,215	12,781	44,996	25,990	10,034	36,024	1,858	772	2,630	3,502	1,602	5,104	865	373	1,238
2001	30,525	12,135	42,660	24,669	9,556	34,225	1,823	742	2,565	3,231	1,480	4,711	802	357	1,159
2002	28,918	11,412	40,330	23,308	8,959	32,267	1,743	674	2,417	3,088	1,449	4,537	779	330	1,109
2003	27,656	10,505	38,161	22,228	8,267	30,495	1,616	630	2,246	3,098	1,336	4,434	714	272	986
2004	25,546	9,481	35,027	20,561	7,388	27,949	1,419	601	2,020	2,841	1,214	4,055	725	278	1,003
2005	24,151	8,770	32,921	19,280	6,822	26,102	1,437	527	1,964	2,772	1,157	3,929	662	264	926
2006	22,446	8,191	30,637	18,005	6,364	24,369	1,308	470	1,778	2,491	1,098	3,589	642	259	901
2007	21,620	7,548	29,168	17,186	5,857	23,043	1,216	447	1,663	2,581	1,018	3,599	637	226	863
2008	20,705	7,369	28,074	16,592	5,774	22,366	1,167	420	1,587	2,375	958	3,333	571	217	788
2009	19,500	6,519	26,019	15,632	5,023	20,655	1,166	400	1,566	2,151	876	3,027	551	220	771
2010	19,047	6,329	25,376	15,258	4,938	20,196	1,081	359	1,440	2,142	839	2,981	566	193	759
2011	17,742	5,774	23,516	14,182	4,528	18,710	1,017	357	1,374	2,010	726	2,736	533	163	696
2012	17,148	5,797	22,945	13,638	4,508	18,146	995	388	1,383	2,015	738	2,753	500	163	663
2013	17,510	5,718	23,228	13,885	4,482	18,367	1,063	356	1,419	1,943	687	2,630	489	158	647
2014	16,835	5,483	22,318	13,529	4,298	17,827	923	328	1,251	1,806	666	2,472	447	160	607
2015	17,107	5,699	22,806	13,546	4,463	18,009	1,060	363	1,423	1,902	664	2,566	470	168	638
2016	16,981	5,634	22,615	13,558	4,364	17,922	1,035	357	1,392	1,838	714	2,552	414	156	570
2017	17,267	5,569	22,836	13,749	4,376	18,125	1,042	320	1,362	1,891	689	2,580	459	148	607
2018	17,444	5,523	22,967	14,025	4,336	18,361	1,033	349	1,382	1,841	650	2,491	423	140	563

Notes:

ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population.

United Kingdom figures from 2013 are greater than the sum of the figures for England, Wales, Scotland, and Northern Ireland as they include non-residents.

Source:

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Table 1.13 Number of deaths from stroke (CBVD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1961	-	-	-	29,090	43,168	72,258	2,070	2,695	4,765	4,048	5,791	9,839	-	-	-
1971	-	-	-	29,005	45,837	74,842	2,044	3,041	5,085	3,946	6,052	9,998	-	-	-
1981	-	-	-	24,812	40,139	64,951	1,723	2,823	4,546	3,524	5,666	9,190	-	-	-
1991	-	-	-	24,224	40,120	64,344	1,585	2,595	4,180	2,936	5,032	7,968	-	-	-
1994	25,019	42,914	67,933	20,327	34,548	54,875	1,290	2,346	3,636	2,775	4,909	7,684	627	1,111	1,738
1995	25,460	43,512	68,972	20,631	35,076	55,707	1,419	2,409	3,828	2,783	4,965	7,748	627	1,062	1,689
1996	25,469	43,238	68,707	20,823	35,267	56,090	1,401	2,436	3,837	2,649	4,479	7,128	596	1,056	1,652
1997	24,897	41,503	66,400	20,274	33,871	54,145	1,380	2,270	3,650	2,609	4,350	6,959	634	1,012	1,646
1998	24,491	41,316	65,807	19,994	33,676	53,670	1,352	2,284	3,636	2,553	4,347	6,900	592	1,009	1,601
1999	23,719	40,510	64,229	19,314	32,958	52,272	1,292	2,201	3,493	2,494	4,291	6,785	619	1,060	1,679
2000	22,550	38,116	60,666	18,233	30,826	49,059	1,246	2,089	3,335	2,544	4,259	6,803	527	942	1,469
2001	25,208	41,518	66,726	20,802	34,042	54,844	1,387	2,343	3,730	2,438	4,183	6,621	581	950	1,531
2002	25,538	41,846	67,384	21,186	34,157	55,343	1,360	2,386	3,746	2,413	4,309	6,722	579	994	1,573
2003	24,930	40,834	65,764	20,485	33,530	54,015	1,457	2,264	3,721	2,409	4,088	6,497	579	952	1,531
2004	22,969	37,485	60,454	18,939	30,618	49,557	1,195	2,112	3,307	2,294	3,861	6,155	541	894	1,435
2005	21,862	35,781	57,643	18,014	29,375	47,389	1,215	1,943	3,158	2,134	3,655	5,789	499	808	1,307
2006	21,264	33,829	55,093	17,491	27,750	45,241	1,202	1,858	3,060	2,060	3,406	5,466	511	815	1,326
2007	20,347	32,825	53,172	16,647	26,879	43,526	1,171	1,817	2,988	2,039	3,294	5,333	490	835	1,325
2008	20,323	32,743	53,066	16,676	26,704	43,380	1,095	1,895	2,990	2,051	3,316	5,367	501	828	1,329
2009	19,133	30,468	49,601	15,790	24,868	40,658	1,066	1,796	2,862	1,841	3,065	4,906	436	739	1,175
2010	19,244	30,044	49,288	15,781	24,708	40,489	1,085	1,711	2,796	1,889	2,875	4,764	489	750	1,239
2011	16,468	25,124	41,592	13,416	20,248	33,664	875	1,365	2,240	1,765	2,829	4,594	412	682	1,094
2012	16,153	25,163	41,316	13,144	20,310	33,454	929	1,381	2,310	1,686	2,789	4,475	394	683	1,077
2013	16,256	24,026	40,282	13,060	19,343	32,403	964	1,323	2,287	1,774	2,672	4,446	424	648	1,072
2014	16,222	23,060	39,282	13,208	18,579	31,787	963	1,353	2,316	1,605	2,518	4,123	423	579	1,002
2015	16,560	23,613	40,173	13,525	19,102	32,627	848	1,333	2,181	1,727	2,575	4,302	419	569	988
2016	16,023	21,748	37,771	12,993	17,446	30,439	852	1,257	2,109	1,712	2,430	4,142	434	568	1,002
2017	15,509	21,119	36,628	12,648	17,057	29,705	803	1,123	1,926	1,597	2,330	3,927	424	564	988
2018	15,478	20,568	36,046	12,520	16,612	29,132	901	1,169	2,070	1,621	2,210	3,831	395	532	927

Notes:

ICD-10 codes I60-I69 - cerebrovascular disease (CBVD).

United Kingdom figures from 2013 are greater than the sum of the figures for England, Wales, Scotland, and Northern Ireland as they include non-residents.

Source:

1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.

Scotland, General Register Office (2017) Personal communication.

Northern Ireland, Statistics and Research Agency (2017) Personal communication.

2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.

2015 onwards England and Wales: NOMIS Mortality Statistics

www.nomisweb.co.uk/articles/983.aspx

Table 1.14 Number of deaths from stroke (CBVD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2018

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
1961	-	-	-	14,898	16,791	31,689	1,115	1,152	2,267	2,035	2,600	4,635	-	-	-
1971	-	-	-	14,788	14,777	29,565	1,143	1,086	2,229	2,163	2,338	4,501	-	-	-
1981	-	-	-	11,708	10,895	22,603	861	808	1,669	1,756	1,790	3,546	-	-	-
1991	-	-	-	8,503	7,328	15,831	633	513	1,146	1,206	1,117	2,323	-	-	-
1994	9,137	8,334	17,471	7,285	6,488	13,773	468	477	945	1,128	1,127	2,255	256	242	498
1995	8,986	7,992	16,978	7,148	6,316	13,464	488	445	933	1,126	1,003	2,129	224	228	452
1996	8,740	7,624	16,364	7,042	6,148	13,190	485	441	926	999	834	1,833	214	201	415
1997	8,414	7,249	15,663	6,712	5,787	12,499	506	414	920	964	855	1,819	232	193	425
1998	8,153	7,017	15,170	6,513	5,626	12,139	477	403	880	937	804	1,741	226	184	410
1999	7,701	6,741	14,442	6,191	5,393	11,584	447	367	814	847	789	1,636	216	192	408
2000	7,142	6,117	13,259	5,686	4,875	10,561	420	311	731	871	772	1,643	165	159	324
2001	7,354	6,173	13,527	6,010	4,937	10,947	382	340	722	806	740	1,546	156	156	312
2002	7,318	5,976	13,294	5,944	4,741	10,685	400	356	756	780	709	1,489	194	170	364
2003	6,936	5,770	12,706	5,584	4,624	10,208	403	343	746	772	670	1,442	177	133	310
2004	6,374	5,210	11,584	5,182	4,149	9,331	340	300	640	694	614	1,308	158	147	305
2005	5,869	4,891	10,760	4,761	3,921	8,682	332	278	610	627	580	1,207	149	112	261
2006	5,486	4,506	9,992	4,382	3,606	7,988	310	257	567	645	522	1,167	149	121	270
2007	5,199	4,331	9,530	4,151	3,448	7,599	311	256	567	618	500	1,118	119	127	246
2008	5,132	4,069	9,201	4,039	3,183	7,222	295	248	543	667	511	1,178	131	127	258
2009	4,728	3,815	8,543	3,806	2,996	6,802	246	229	475	553	491	1,044	123	99	222
2010	4,810	3,742	8,552	3,898	2,969	6,867	246	235	481	526	416	942	140	122	262
2011	4,384	3,446	7,830	3,472	2,719	6,191	255	224	479	532	408	940	125	95	220
2012	4,076	3,452	7,528	3,246	2,749	5,995	261	189	450	463	433	896	106	81	187
2013	4,222	3,311	7,533	3,366	2,582	5,948	233	179	412	494	432	926	103	98	201
2014	4,161	3,329	7,490	3,345	2,661	6,006	260	189	449	427	380	807	115	82	197
2015	4,153	3,464	7,617	3,337	2,752	6,089	213	200	413	468	391	859	108	97	205
2016	4,297	3,508	7,805	3,426	2,761	6,187	241	207	448	484	409	893	125	104	229
2017	4,161	3,270	7,431	3,354	2,609	5,963	238	178	416	445	358	803	109	97	206
2018	4,217	3,459	7,676	3,393	2,763	6,156	236	189	425	462	378	840	100	101	201

Notes:

ICD-10 codes I60-I69 - cerebrovascular disease (CBVD).

United Kingdom figures from 2013 are greater than the sum of the figures for England, Wales, Scotland, and Northern Ireland as they include non-residents.

Source:

1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.

Scotland, General Register Office (2018) Personal communication.

Northern Ireland, Statistics and Research Agency (2018) Personal communication.

2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.

2015 onwards England and Wales: NOMIS Mortality Statistics

www.nomisweb.co.uk/articles/983.aspx

Table 1.15 Excess winter mortality for cardiovascular disease (CVD), by gender and age, England and Wales, 2007/08-2017/18[Back to Table of Contents](#)

Men	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18
0-64											
Excess winter deaths	520	600	380	640	280	490	180	400	510	380	870
EWM Index (%)	11.9	14.5	9.1	16.6	7.7	13.6	4.9	11.6	14	10.4	23.4
65-74											
Excess winter deaths	670	930	780	500	600	580	230	800	640	550	1,050
EWM Index (%)	13.6	19.8	16.9	11.1	14.4	13.5	5.3	19	14.9	12.7	24.3
75-84											
Excess winter deaths	1,400	2,380	1,610	1,280	1,030	1,320	680	1,400	790	1,250	1,850
EWM Index (%)	15.1	27.7	19.6	16.5	14.0	17.7	9.4	19.8	11	18.4	27.7
85+											
Excess winter deaths	1,450	1,890	1,610	1,040	1,390	1,490	1,030	1,800	1,100	1,550	2,210
EWM Index (%)	20.6	26.6	22.5	14.7	20.6	21.0	15.1	25.9	15.6	22.1	31.7
All Men											
Excess winter deaths	4,040	5,790	4,370	3,460	3,310	3,870	2,100	4,500	3,040	3,730	5,960
EWM Index (%)	15.8	23.7	18.1	14.9	15.1	17.3	9.6	20.3	13.7	17.1	27.6
Women											
0-64											
Excess winter deaths	260	240	240	210	220	300	160	200	260	110	330
EWM Index (%)	15.3	14.7	15.1	14.0	15.6	20.4	11.6	16.3	17.4	7.1	22.7
65-74											
Excess winter deaths	390	380	400	320	230	300	240	500	270	360	540
EWM Index (%)	14.3	14.5	16.4	13.4	10.0	13.5	11.2	22.5	11.8	16.1	24.7
75-84											
Excess winter deaths	1,500	1,960	1,540	1,010	1,060	1,140	760	1,300	810	910	1,550
EWM Index (%)	17.2	24.4	20.4	14.2	16.2	17.7	12.7	22.2	14.4	16.4	29.3
85+											
Excess winter deaths	2,560	4,110	3,070	1,850	2,360	2,660	1,420	3,300	1,420	2,390	2,940
EWM Index (%)	17.9	29.8	22.5	14.4	19.5	21.4	12.2	28.4	12.3	21.9	27.6
All Women											
Excess winter deaths	4,700	6,680	5,240	3,390	3,860	4,390	2,580	5,400	2,760	3,760	5,360
EWM Index (%)	17.1	25.7	20.8	14.2	17.3	19.5	12.2	25.3	13.2	18.6	27.4
ALL											
0-64											
Excess winter deaths	770	840	620	850	500	780	340	600	770	490	1,190
EWM Index (%)	12.8	14.6	10.8	15.9	9.9	15.6	6.8	13	15	9.4	23.2
65-74											
Excess winter deaths	1,070	1,300	1,170	810	830	880	470	1,300	910	910	1,580
EWM Index (%)	13.9	17.9	16.7	11.9	12.9	13.5	7.3	20.2	13.8	13.8	24.4
75-84											
Excess winter deaths	2,900	4,330	3,150	2,300	2,090	2,450	1,430	2,800	1,600	2,160	3,390
EWM Index (%)	16.1	26.1	20.0	15.4	15.0	17.7	10.9	20.9	12.5	17.5	28.4
85+											
Excess winter deaths	4,010	6,000	4,670	2,890	3,750	4,140	2,450	5,200	2,520	3,940	5,150
EWM Index (%)	18.8	28.8	22.5	14.5	19.9	21.2	13.3	27.4	13.6	22	29.2
All ages											
Excess winter deaths	8,740	12,470	9,610	6,850	7,170	8,260	4,680	9,900	5,800	7,500	11,320
EWM Index (%)	16.5	24.7	19.5	14.6	16.2	18.4	10.9	22.7	13.5	17.8	27.5

Notes: Excess winter mortality calculation: winter deaths-average non-winter deaths.

Excess winter mortality index calculation: (excess winter mortality / average non-winter deaths)*100

Please note that the figures for 2017/18 are provisional and mortality data is rounded to the nearest 100.

As a result, some totals for persons and all ages will not be equal to the sum of their parts.

ICD-10 codes for CVD I00-I99.

ICD-10 codes for CHD I20-I25.

Source: Office for National Statistics (2019). Personal communication.

Table 1.16 Excess winter mortality for CVD and CHD by gender and age, England 2010/2011 to 2018/19

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		2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19 (P)	
		Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Cardiovascular disease (ICD-10 I00-I99)																			
	0-64	570	15.9	270	8	450	13.7	140	4.3	340	10	440	13	380	11.3	800	23.4	900	13
	65-74	480	11.8	570	14.6	550	13.8	180	4.6	700	18	610	15.3	560	14.2	990	25.2	300	12
	75-84	1,200	16.6	1,000	14.6	1,220	17.6	650	9.7	1,350	20	720	10.9	1,210	19.3	1,690	27.3	500	14.1
	85+	990	14.9	1,300	20.5	1,350	20.4	960	15.1	1,790	26.9	1,060	16	1,440	21.8	2,050	31.3	400	11.5
Men	All ages	3,240	15	3,130	15.3	3,570	17.2	1,930	9.5	4,180	20.2	2,830	13.7	3,590	17.8	5,530	27.5	2,600	13.2
	0-64	190	13.8	210	15.9	280	21.3	130	9.8	200	14.8	230	17	90	6.3	310	23.1	400	11.8
	65-74	300	14	220	10.7	260	12.5	240	11.9	450	21.9	220	10.4	330	16.3	500	25.1	200	11
	75-84	930	14	970	15.7	1,090	18.2	700	12.7	1,250	22.6	750	14.3	870	16.9	1,450	29.5	300	11.3
	85+	1,700	14.1	2,210	19.5	2,500	21.5	1,340	12.2	3,300	30.2	1,270	11.7	2,360	23.1	2,750	27.5	500	12.4
Women	All ages	3,120	14	3,600	17.3	4,130	19.7	2,400	12.2	5,200	26.2	2,480	12.7	3,650	19.4	5,020	27.5	2,200	12.4
	0-64	760	15.3	470	10.2	740	15.8	270	5.8	540	11.4	670	14.2	470	9.8	1,110	23.3	1,300	12.6
	65-74	790	12.5	790	13.3	810	13.4	420	7	1,150	19.4	830	13.6	900	14.9	1,500	25.1	500	11.6
	75-84	2,130	15.3	1,960	15.1	2,310	17.9	1,350	11	2,610	21.2	1,480	12.4	2,080	18.2	3,140	28.2	800	12.8
	85+	2,680	14.4	3,510	19.9	3,860	21.1	2,290	13.3	5,090	28.9	2,330	13.4	3,800	22.6	4,810	29	900	11.9
	90+																	1,300	14.4
All	All ages	6,360	14.5	6,730	16.3	7,710	18.4	4,330	10.8	9,380	23.1	5,300	13.2	7,240	18.6	10,550	27.5	4,900	12.8
		2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18			
		Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index		
Coronary heart disease (ICD-10 I20-I25)																			
	0-64	310	13.8	230	11.4	270	13.3	60	3.1	240	11.6	230	11.6	230	11.7	440	21.6		
	65-74	310	12.8	400	17.4	280	11.7	90	3.7	450	19.6	400	16.9	330	13.9	580	24.8		
	75-84	790	20.9	560	15.4	700	18.9	380	10.7	750	21.6	330	9.7	750	23.9	850	27.4		
	85+	480	15.6	720	24.7	620	20.2	440	15.2	790	26.9	450	15.3	760	26.5	840	30.2		
Men	All ages	1,890	16.4	1,910	17.6	1,870	16.7	970	8.9	2,230	20.7	1,410	13.2	2,070	20	2,720	26.4		
	0-64	80	15.3	70	13.3	160	30.6	20	3.1	100	19.1	100	19.4	40	7.2	120	25		
	65-74	130	13.8	130	14.7	200	22.7	140	16.6	250	30.5	80	8.8	210	25	280	34.8		
	75-84	430	16.3	420	17.3	430	18.1	180	8.2	480	22.7	290	14.6	360	19.2	520	29		
	85+	670	16.4	840	21.2	880	22.3	510	13.9	1,050	29.5	500	14.5	850	27.3	830	28		
Women	All ages	1,320	16	1,460	18.7	1,680	21.6	850	11.7	1,880	26.8	970	14.2	1,450	22.9	1,760	28.9		
	0-64	400	14.1	300	11.8	430	16.8	80	3.1	340	13.2	340	13.3	270	10.8	570	22.2		
	65-74	450	13.1	530	16.6	490	14.7	230	7.1	700	22.5	480	14.7	540	16.8	860	27.4		
	75-84	1,210	19	980	16.2	1,130	18.6	550	9.7	1,230	22	620	11.5	1,110	22.1	1,360	28		
	85+	1,150	16.1	1,560	22.7	1,500	21.4	950	14.4	1,840	28.3	940	14.9	1,610	26.9	1,680	29		
All	All ages	3,200	16.2	3,370	18.1	3,550	18.7	1,810	10.1	4,110	23.1	2,370	13.6	3,520	21.1	4,470	27.3		

Notes: Excess winter mortality calculation: winter deaths-average non-winter deaths.
Excess winter mortality index calculation: (excess winter mortality / average non-winter deaths)*100
The figures for individual age-groups may not sum up to the 'all ages' total due to rounding of figures.
Please note that the figures for 2018/19 are preliminary
ICD-10 codes for CVD I00-I99.
ICD-10 codes for CHD I20-I25.

Source: Office for National Statistics (2019). Personal communication.
Provisional figures for 2018/19 are taken from
<https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/datasets/excesswintermortalityinenglandandwalesreferencetables>

Table 1.17 Excess winter mortality for CVD and CHD by gender and age, Wales 2010/2011 to 2017/18

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	2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18	
	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Cardiovascular disease (ICD-10 I00-I99)																
0-64	70	32	10	4	40	16	20	9	40	17.3	60	27.1	40	19.1	70	27.8
65-74	30	9	50	17	50	17	50	17	100	34.5	30	10	10	3.9	60	16.9
75-84	90	17	30	5	100	20	40	8	110	24	80	18.2	50	10.6	160	36.3
85+	50	12	100	23	130	29	60	15	70	16.6	50	12.2	120	29.8	160	39.4
Men All ages	240	16	180	13	320	21	170	12	330	22.8	230	16.1	220	15.8	440	31.3
0-64	20	17	10	12	20	16	40	49	10	5.9	30	27.9	20	17.8	20	21.6
65-74	20	11	0	2	40	29	10	7	60	39.8	50	34	20	15.1	40	25.3
75-84	80	18	90	23	50	12	60	16	90	23.5	60	16.2	50	12.5	100	29.2
85+	150	19	150	19	150	19	90	12	110	14.4	140	19.9	30	5.1	180	28.8
Women All ages	270	18	250	18	270	18	200	15	270	19	280	21.1	120	9.2	340	27.9
0-64	90	27	20	7	50	16	60	20	50	13.8	90	27.4	60	18.8	90	26
65-74	50	10	50	11	100	21	60	14	160	36.3	80	18.2	40	7.5	90	19.5
75-84	170	17	120	13	150	16	100	11	210	23.8	140	17.3	100	11.4	260	33.3
85+	210	17	240	21	280	23	150	13	190	15.2	190	17	150	14	340	32.9
All All ages	510	17	440	15	590	20	370	13	600	20.9	510	18.6	340	12.7	780	29.7
	2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18	
	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Coronary heart disease (ICD-10 I20-I25)																
0-64	50	36	0	0	30	25	30	27	40	30	30	23	30	18.8	50	37.1
65-74	30	20	40	24	50	24	20	15	70	40.8	30	17.5	4	2.1	48	25.1
75-84	60	21	20	7	70	25	20	8	50	17.8	50	20.1	40	16.6	60	23
85+	30	14	30	16	70	31	30	14	10	7.2	50	28.9	90	54.7	60	31.1
Men All ages	170	21	100	12	210	26	110	14	170	22.3	160	22.1	160	21.6	210	28.1
0-64	20	57	10	15	1	6	30	76	4	9.5	20	34	1	2.6	5	9.7
65-74	10	14	0	1	20	27	-10	.	40	63	20	27.4	20	35.6	20	32.8
75-84	40	19	30	21	20	13	30	17	50	33.3	30	20.3	20	15.9	20	13.3
85+	40	12	50	19	100	38	10	2	20	8.2	20	9	20	10.7	50	26.9
Women All ages	100	17	90	17	150	26	50	10	110	21.8	80	17.1	70	14.9	100	21.9
0-64	70	40	10	4	40	21	60	37	40	25	50	25.6	30	15.3	60	30.3
65-74	40	18	40	17	70	25	20	7	110	46.5	50	20.2	30	10.1	70	27.1
75-84	90	20	50	12	90	20	50	11	100	23.4	70	20.2	60	16.3	70	19.6
85+	70	13	90	18	170	35	30	7	40	7.8	70	17.4	110	30	110	28.9
All All ages	280	20	190	14	360	26	160	12	280	22.1	250	20.1	230	19.1	310	25.8

Notes: Excess winter mortality calculation: winter deaths-average non-winter deaths.
Excess winter mortality index calculation: (excess winter mortality / average non-winter deaths)*100
Low numbers of CVD deaths of each age-group in the winter months for Wales may mean that there are large percentage variations in EWM between each year, which could be due to natural fluctuations rather than meaningful increases or decreases between each year.
The figures for individual age-groups may not sum up to the 'all ages' total due to rounding of figures.
The EWM index cannot be calculated where the number of EWD's is equal to zero or where there are a negative number of excess winter deaths.
Please note that the figures for 2018/19 are preliminary
ICD-10 codes for CVD I00-I99.
ICD-10 codes for CHD I20-I25.

Source: Office for National Statistics (2019). Personal communication.
Provisional figures for 2018/19 are taken from
<https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/datasets/excesswintermortalityinenglandandwalesreferencetables>.

Table 1.18 Excess winter mortality for CVD and CHD by gender and age, Scotland 2009/2010 to 2018/19

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	2009/10		2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19 (P)	
	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Cardiovascular disease (ICD-10 I00-I99)																				
0-64	120	24	40	7	30	7	-10	.	10	2	40	8	60	14	100	22	30	7		
65-74	90	17	110	20	10	2	20	3	60	11	110	20	110	21	60	10	90	15		
75-84	180	21	160	19	110	14	100	12	80	9	190	24	120	15	110	14	220	27		
85+	130	22	80	13	80	13	150	24	90	14	200	30	80	11	110	18	210	32		
Men All ages	520	21	380	15	240	10	260	10	230	10	530	22	370	15	380	16	530	22		
0-64	20	10	20	11	10	5	0	.	20	13	-	.	50	28	40	21	30	15		
65-74	100	30	30	8	20	6	30	8	10	3	50	16	50	17	30	10	40	14		
75-84	190	22	180	21	80	9	80	9	90	11	190	25	110	16	140	19	200	27		
85+	190	15	190	15	0	-	130	10	170	14	350	29	180	16	250	21	290	26		
Women All ages	510	19	420	16	110	4	240	9	290	12	590	24	400	17	450	19	540	24		
0-64	140	20	60	8	40	6	-10	.	30	5	40	6	120	18	150	22	60	9	80	:
65-74	190	22	130	15	30	4	40	5	60	8	150	18	160	19	90	10	140	15	90	:
75-84	370	21	340	20	190	12	180	11	160	10	390	25	230	16	250	16	400	27	210	:
85+	330	18	270	14	80	4	280	15	250	14	540	29	260	14	360	20	490	28	250	:
All All ages	1,030	20	800	15	350	7	490	9	510	11	1,120	23	760	16	830	17	1,090	23	620	:
Coronary heart disease (ICD-10 I20-I25)	2010/11		2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19 (P)	
	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
0-64	70	23	0	.	30	9	0	-	10	3	10	3	20	8	60	22	-	1		
65-74	80	24	50	16	0	1	30	9	50	18	80	23	60	21	20	5	20	5		
75-84	120	26	80	17	40	8	30	7	30	7	120	29	30	7	30	6	120	30		
85+	60	19	30	10	20	6	60	21	20	9	70	23	30	10	50	20	80	28		
Men All ages	330	23	160	11	80	6	120	9	110	9	270	21	150	11	160	12	210	16		
0-64	20	20	30	39	10	7	0	3	10	17	10	12	30	46	20	20	10	14		
65-74	50	28	-10	.	30	23	0	-	10	4	10	10	10	5	20	17	10	10		
75-84	80	19	70	19	50	14	30	9	60	19	80	24	60	25	60	21	80	28		
85+	80	17	20	4	10	1	30	7	30	8	100	24	90	22	80	22	80	23		
Women All ages	220	20	110	10	100	9	60	6	110	12	200	21	190	22	170	21	180	21		
0-64	90	22	30	7	40	9	0	1	20	6	20	5	60	16	80	22	20	4	40	12
65-74	130	25	40	8	40	7	30	6	60	14	90	19	70	16	40	9	40	8	50	11
75-84	190	22	150	18	90	11	60	8	90	12	190	26	90	14	90	12	190	29	110	17
85+	140	18	50	6	20	3	90	12	60	8	170	23	120	17	130	21	160	26	120	19
All All ages	550	22	270	11	180	7	190	8	220	10	460	21	340	16	330	16	410	19	320	16

Notes: Excess winter mortality calculation: winter deaths-average non-winter deaths.
Excess winter mortality index calculation: (excess winter mortality / average non-winter deaths)*100
Low numbers of CVD deaths of each age-group in the winter months for Scotland may mean that there are large percentage variations in EWM between each year, which could be due to natural fluctuations rather than meaningful increases or decreases between each year.
The figures for individual age-groups may not sum up to the 'all ages' total due to rounding of figures.
The EWM index cannot be calculated where the number of EWD's is equal to zero or where there are a negative number of excess winter deaths.
Please note that the figures for 2018/19 are preliminary and the combined totals of males and females may differ from those published.
ICD-10 codes for CVD I00-I99.
ICD-10 codes for CHD I20-I25.

Source: National Records of Scotland, Personal Communication (2019)
Provisional figures for 2018/19 are taken from
<https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/deaths/winter-mortality>

Table 1.19 Excess winter mortality for CVD and CHD by gender and age, Northern Ireland 2011/12 to 2017/18

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		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18	
		Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Cardiovascular disease (ICD-10 I00-I99)	0-64	11	9.9	-9	-7.2	14	12.4	-14	-10.9	2	1.5	10	8.8	33	31.7
	65-74	17	12.9	18	14.0	4	3.0	15	12.2	14	11.2	50	42.9	30	25.3
	75-84	23	11.1	51	25.4	32	16.3	57	30.0	12	6.1	19	10.0	50	24.0
	85+	5	2.5	63	38.2	48	29.6	30	17.5	32	18.8	50	29.9	45	24.2
	Men All ages	55	8.8	123	20.1	96	16.5	89	14.6	59	10.1	128	22.0	157	25.6
	0-64	-5	-11.9	-2	-4.3	8	17.4	5	10.9	9	18.4	10	24.4	11	24.7
	65-74	10	15.2	4	5.7	3	3.9	26	40.2	33	53.2	18	28.5	-1	-0.7
	75-84	14	6.7	12	5.7	57	35.0	38	21.6	-21	-11.8	29	17.1	74	56.5
	85+	80	24.1	33	9.2	20	6.5	71	22.6	53	18.2	62	20.3	125	44.3
	Women All ages	98	15.2	46	6.8	88	15.0	139	23.3	75	12.9	118	20.5	209	39.5
	0-64	6	3.9	-11	-6.4	22	13.9	-9	-5.0	11	6.9	20	12.9	44	29.7
	65-74	26	13.7	22	11.1	6	3.3	41	21.7	47	25.1	67	37.9	29	15.3
	75-84	37	8.9	63	15.5	89	24.8	95	26.0	-9	-2.5	47	13.4	124	36.6
	85+	84	16.6	95	18.4	68	14.3	101	20.8	85	18.4	112	23.6	170	36.3
	ALL All ages	153	12.1	169	13.2	184	15.8	228	18.9	134	11.5	246	21.2	366	32.0
Coronary heart disease (ICD-10 I20-I25)		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18	
		Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
	0-64	7	8.7	-5	-5.4	-1	-1.3	-9	-11.3	0	0.0	3	4.2	17	25.4
	65-74	1	0.6	7	7.6	-1	-0.7	4	5.1	6	7.9	33	43.6	24	39.5
	75-84	22	18.9	36	31.3	30	28.8	18	16.7	6	6.0	6	5.7	20	18.3
	85+	-11	-11.5	37	46.5	32	44.7	20	23.4	14	16.6	14	18.9	19	23.8
	Men All ages	18	4.9	75	20.6	60	18.4	33	9.3	25	8.0	56	17.1	79	25.2
	0-64	-1	-5.3	-1	-5.0	4	17.1	-4	-15.6	10	50.0	-3	-15.8	1	2.9
	65-74	4	13.8	-2	-3.8	-1	-1.8	9	31.0	22	81.1	4	11.9	3	10.7
	75-84	-3	-2.8	15	18.1	26	35.7	7	8.8	-11	-14.9	15	23.6	29	70.7
	85+	52	50.5	-13	-9.9	2	1.3	25	22.0	18	19.4	15	14.9	53	60.9
	Women All ages	53	21.9	-1	-0.2	30	12.8	37	15.2	39	18.6	30	14.2	86	49.3
	0-64	6	5.9	-6	-5.3	3	2.6	-13	-12.2	10	12.0	0	0.0	18	20.7
	65-74	5	3.9	5	4.0	-1	-1.0	13	12.0	28	26.8	36	34.6	27	30.3
	75-84	19	9.4	51	25.8	55	31.6	25	13.3	-5	-3.1	21	12.2	49	32.9
	85+	45	21.7	18	7.9	33	17.7	44	22.6	32	18.1	29	16.6	72	43.1
	ALL All ages	74	12.0	68	10.5	90	16.0	70	11.7	64	12.3	86	15.9	165	33.8
		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18	
		Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index

Notes:

Excess winter mortality calculation: winter deaths-average non-winter deaths.

Table 1.11 Excess winter mortality index calculation: (excess winter mortality / average non-winter deaths)*100

Low numbers of CVD deaths of each age-group in the winter months for Northern Ireland may mean that there are large percentage variations in EWM between each year, which could be due to natural fluctuations rather than meaningful increases or decreases between each year.

ICD-10 codes for CVD I00-I99.

ICD-10 codes for CHD I20-I25.

Source:

Northern Ireland Statistics Research Agency (2019). Personal communication.

Table 1.20 Number of deaths and age-standardised death rates for all heart and circulatory diseases, all ages by region and nation, United Kingdom 2016/18

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	ALL AGES								
	Age standardised heart and circulatory disease death rates per 100,000			Total number of heart and circulatory disease deaths 2016/18			Average number of annual heart and circulatory disease deaths for 2016/18		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	328.7	221.7	270.0	19,001	18,000	37,001	6,334	6,000	12,334
East of England	299.1	198.6	243.9	23,585	22,532	46,117	7,862	7,511	15,372
London	297.8	199.3	244.2	21,576	19,942	41,518	7,192	6,647	13,839
North East	349.0	230.8	283.4	11,302	10,499	21,801	3,767	3,500	7,267
North West	355.8	241.5	293.5	30,459	28,922	59,381	10,153	9,641	19,794
South East	288.4	199.6	240.1	32,982	33,954	66,936	10,994	11,318	22,312
South West	311.5	211.2	256.0	24,249	24,475	48,724	8,083	8,158	16,241
West Midlands	338.2	225.2	276.4	23,471	22,324	45,795	7,824	7,441	15,265
Yorkshire and the Humber	353.0	232.9	285.9	22,348	21,132	43,480	7,449	7,044	14,493
England	320.6	216.1	263.3	208,973	201,780	410,753	69,658	67,260	136,918
Wales	354.8	236.3	290.6	14,464	13,551	28,015	4,821	4,517	9,338
Scotland	409.3	286.0	340.6	25,357	25,777	51,134	8,452	8,592	17,045
Northern Ireland	322.3	215.4	262.3	6,063	5,921	11,984	2,021	1,974	3,995
UK	329.5	222.9	271.0	254,857	247,029	501,886	84,952	82,343	167,295

Notes: ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28. Directly age-standardised using the 2013 European Standard Population.

Source: England and Wales: rates calculated in partnership with the Office for National Statistics using NOMIS
 Scotland: Rates calculated in partnership with National Records of Scotland.
 Northern Ireland: Rates calculated in partnership with Northern Ireland Statistics and Research Agency.

Table 1.21 Number of deaths and age-standardised death rates for for all heart and circulatory diseases, under 75, by region and nation, United Kingdom 2016/18

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	UNDER 75								
	Age standardised heart and circulatory disease death rates per 100,000			Total number of premature heart and circulatory disease deaths 2016/18			Average number of annual premature heart and circulatory disease deaths for 2016/18		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	104.1	47.6	75.4	6,636	3,153	9,789	2,212	1,051	3,263
East of England	91.6	39.6	64.9	7,406	3,398	10,804	2,469	1,133	3,601
London	101.6	44.3	71.8	8,266	3,834	12,100	2,755	1,278	4,033
North East	117.7	53.9	84.8	4,173	2,029	6,202	1,391	676	2,067
North West	121.8	57.5	88.9	11,380	5,614	16,994	3,793	1,871	5,665
South East	85.5	37.1	60.6	10,017	4,624	14,641	3,339	1,541	4,880
South West	89.8	38.8	63.5	7,049	3,245	10,294	2,350	1,082	3,431
West Midlands	113.1	49.4	80.5	8,316	3,813	12,129	2,772	1,271	4,043
Yorkshire and the Humber	114.8	54.2	83.8	8,001	3,961	11,962	2,667	1,320	3,987
England	102.5	45.9	73.5	71,244	33,671	104,915	23,748	11,224	34,972
Wales	121.3	54.7	87.1	5,219	2,491	7,710	1,740	830	2,570
Scotland	132.6	63.0	96.5	9,444	4,819	14,263	3,148	1,606	4,754
Northern Ireland	99.93	47.2	72.8	2,218	1,110	3,328	739	370	1,109
UK	106.0	47.9	76.1	88,125	42,091	130,216	29,375	14,030	43,405

Notes: ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28. Directly age-standardised using the 2013 European Standard Population.

Source: England and Wales: rates calculated in partnership with the Office for National Statistics.
 Scotland: Rates calculated in partnership with National Records of Scotland.
 Northern Ireland: Rates calculated in partnership with Northern Ireland Statistics and Research Agency.

Table 1.22 Number of deaths and age-standardised death rates for coronary heart disease (CHD), all ages, by region and nation, United Kingdom 2016/18

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	ALL AGES								
	Age standardised CHD death rates per 100,000			Total number of CHD deaths 2016/18			Average number of annual CHD deaths for 2016/18		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	150.6	67.3	104.5	9,020	5,386	14,406	3,007	1,795	4,802
East of England	134.4	60.0	92.9	10,782	6,677	17,459	3,594	2,226	5,820
London	136.0	60.8	94.2	10,082	5,966	16,048	3,361	1,989	5,349
North East	163.8	73.3	113.2	5,506	3,297	8,803	1,835	1,099	2,934
North West	169.7	80.1	120.2	15,079	9,419	24,498	5,026	3,140	8,166
South East	124.7	54.2	85.4	14,543	9,016	23,559	4,848	3,005	7,853
South West	140.6	59.6	95.1	11,148	6,752	17,900	3,716	2,251	5,967
West Midlands	161.4	70.4	110.9	11,541	6,832	18,373	3,847	2,277	6,124
Yorkshire and the Humber	173.9	79.3	120.8	11,344	7,119	18,463	3,781	2,373	6,154
England	148.0	66.1	102.4	99,045	60,464	159,509	33,015	20,155	53,170
Wales	170.7	75.8	118.2	7,164	4,264	11,428	2,388	1,421	3,809
Scotland	183.7	90.4	131.1	11,945	8,094	20,039	3,982	2,698	6,680
Northern Ireland	151.1	67.9	103.8	2,966	1,849	4,815	989	616	1,605
UK	152.2	68.7	105.6	121,120	74,671	195,791	40,373	24,890	65,264

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population.

Source: England and Wales: rates calculated in partnership with the Office for National Statistics using NOMIS
 Scotland: Rates calculated in partnership with National Records of Scotland.
 Northern Ireland: Rates calculated in partnership with Northern Ireland Statistics and Research Agency.

Table 1.23 Number of deaths and age-standardised death rates for coronary heart disease (CHD), under 75, by region and nation, United Kingdom 2016/18

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	UNDER 75								
	Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2016/18			Average number of annual premature CHD deaths for 2016/18		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	60.9	18.1	39.1	3,879	1,203	5,082	1,293	401	1,694
East of England	50.3	14.6	32.0	4,066	1,256	5,322	1,355	419	1,774
London	57.4	17.5	36.6	4,600	1,477	6,077	1,533	492	2,026
North East	70.2	22.2	45.5	2,499	840	3,339	833	280	1,113
North West	73.8	25.0	48.8	6,893	2,438	9,331	2,298	813	3,110
South East	47.5	12.6	29.5	5,564	1,564	7,128	1,855	521	2,376
South West	51.6	13.7	32.1	4,054	1,153	5,207	1,351	384	1,736
West Midlands	68.0	19.7	43.4	4,989	1,521	6,510	1,663	507	2,170
Yorkshire and the Humber	68.7	22.2	45.0	4,788	1,624	6,412	1,596	541	2,137
England	59.6	17.9	38.2	41,332	13,076	54,408	13,777	4,359	18,136
Wales	72.2	22.5	46.7	3,110	1,026	4,136	1,037	342	1,379
Scotland	77.9	26.7	51.4	5,570	2,053	7,623	1,857	684	2,541
Northern Ireland	58.3	19.0	38.1	1,296	444	1,740	432	148	580
UK	61.8	18.9	39.8	51,308	16,599	67,907	17,103	5,533	22,636

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population.

Source: England and Wales: rates calculated in partnership with the Office for National Statistics.
 Scotland: Rates calculated in partnership with National Records of Scotland.
 Northern Ireland: Rates calculated in partnership with Northern Ireland Statistics and Research Agency.

Table 1.24 Number of deaths and age-standardised death rates for stroke (CBVD), all ages, by region and nation, United Kingdom 2016/18

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	ALL AGES								
	Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	58.4	53.7	55.9	3,288	4,354	7,642	1,096	1,451	2,547
East of England	57.2	50.1	53.4	4,449	5,692	10,141	1,483	1,897	3,380
London	55.6	45.4	50.0	3,951	4,502	8,453	1,317	1,501	2,818
North East	71.8	64.7	68.0	2,269	2,943	5,212	756	981	1,737
North West	63.6	58.2	60.9	5,302	6,982	12,284	1,767	2,327	4,095
South East	54.0	51.4	52.9	6,114	8,711	14,825	2,038	2,904	4,942
South West	61.8	59.6	60.9	4,737	6,947	11,684	1,579	2,316	3,895
West Midlands	59.6	55.7	57.8	4,036	5,532	9,568	1,345	1,844	3,189
Yorkshire and the Humber	65.5	60.0	62.5	4,015	5,452	9,467	1,338	1,817	3,156
England	59.8	54.7	57.2	38,161	51,115	89,276	12,720	17,038	29,759
Wales	63.9	61.4	63.4	2,556	3,549	6,105	852	1,183	2,035
Scotland	83.1	77.1	80.2	4,930	6,970	11,900	1,643	2,323	3,967
Northern Ireland	69.8	60.6	64.6	1,253	1,664	2,917	418	555	972
UK	62.0	57.0	59.6	46,900	63,298	110,198	15,633	21,099	36,733

Notes: ICD-10 codes I60-I69. Directly standardised using the 2013 European Standard Population.

Source: England and Wales: rates calculated in partnership with the Office for National Statistics using NOMIS
 Scotland: Rates calculated in partnership with National Records of Scotland.
 Northern Ireland: Rates calculated in partnership with Northern Ireland Statistics and Research Agency.

Table 1.25 Number of deaths and age-standardised death rates for stroke (CBVD), under 75, by region and nation, United Kingdom 2016/18

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	UNDER 75								
	Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2016/18			Average number of annual premature stroke (CBVD) deaths for 2016/18		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	13.8	11.4	12.6	884	756	1,640	295	252	547
East of England	13.7	9.5	11.6	1,111	817	1,928	370	272	643
London	15.7	10.8	13.1	1,262	935	2,197	421	312	732
North East	18.1	14.6	16.3	641	550	1,191	214	183	397
North West	17.3	13.2	15.2	1,609	1,292	2,901	536	431	967
South East	12.2	9.3	10.7	1,430	1,161	2,591	477	387	864
South West	12.7	9.8	11.2	1,001	820	1,821	334	273	607
West Midlands	15.5	11.2	13.3	1,135	864	1,999	378	288	666
Yorkshire and the Humber	15.8	12.9	14.3	1,100	938	2,038	367	313	679
England	14.7	11.1	12.8	10,173	8,133	18,306	3,391	2,711	6,102
Wales	16.6	12.6	14.5	715	574	1,289	238	191	430
Scotland	19.7	15.0	17.2	1,391	1,145	2,536	464	382	845
Northern Ireland	15.1	12.9	14.0	334	302	636	111	101	212
UK	15.2	11.6	13.3	12,613	10,154	22,767	4,204	3,385	7,589

Notes:

ICD-10 codes I60-I69. Directly standardised using the 2013 European Standard Population.

Source:

England and Wales: rates calculated in partnership with the Office for National Statistics.

Scotland: Rates calculated in partnership with National Records of Scotland.

Northern Ireland: Rates calculated in partnership with Northern Ireland Statistics and Research Agency.

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for all heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES												
					Age standardised death rates from all heart and circulatory diseases per 100,000			Total number of deaths from all heart and circulatory diseases 2016/18			Average number of annual deaths from all heart and circulatory diseases 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
E06000032	Luton	Bedfordshire	East of England	ENG				651	497	1,148	217	166	383		52		
E06000055	Bedford	Bedfordshire	East of England	ENG				587	535	1,127	196	178	376		156		
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG				812	686	1,503	271	229	501		264		
E06000036	Bracknell Forest	Berkshire	South East	ENG				281	248	529	94	83	176		284		
E06000037	West Berkshire	Berkshire	South East	ENG				486	450	936	162	150	312		289		
E06000038	Reading	Berkshire	South East	ENG				423	448	871	141	149	290		141		
E06000039	Slough	Berkshire	South East	ENG				365	336	698	122	112	233		73		
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG				496	534	1,030	165	178	343		304		
E06000041	Wokingham	Berkshire	South East	ENG				497	472	969	166	157	323		316		
E06000023	Bristol	Bristol	South West	ENG				1,299	1,288	2,588	433	429	863		82		
E06000042	Milton Keynes	Buckinghamshire	South East	ENG				677	579	1,266	226	193	422		172		
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG				581	547	1,128	194	182	376		277		
E07000005	Chiltern	Buckinghamshire	South East	ENG				317	310	626	106	103	209		315		
E07000006	South Bucks	Buckinghamshire	South East	ENG				264	289	550	88	96	183		292		
E07000007	Wycombe	Buckinghamshire	South East	ENG				585	502	1,087	195	167	362		280		
E06000031	Peterborough	Cambridgeshire	East of England	ENG				671	575	1,246	224	192	415		53		
E07000008	Cambridge	Cambridgeshire	East of England	ENG				362	340	702	121	113	234		205		
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG				335	326	661	112	109	220		266		
E07000010	Fenland	Cambridgeshire	East of England	ENG				475	439	914	158	146	305		51		
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG				597	549	1,146	199	183	382		247		
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG				517	492	1,009	172	164	336		300		
E06000006	Halton	Cheshire	North West	ENG				497	440	937	166	147	312		39		
E06000007	Warrington	Cheshire	North West	ENG				862	757	1,619	287	252	540		175		
E06000049	Cheshire East	Cheshire	North West	ENG				1,723	1,717	3,440	574	572	1,147		228		
E06000050	Cheshire West and Chester	Cheshire	North West	ENG				1,440	1,388	2,828	480	463	943		183		
E06000052	Cornwall	Cornwall	South West	ENG				2,964	3,154	6,123	988	1,051	2,041		83		
E06000053	Isles of Scilly	Cornwall	South West	ENG				15	5	24	5	2	8		245		
E06000001	Hartlepool	County Durham	North East	ENG				425	382	807	142	127	269		25		
E06000004	Stockton-on-Tees	County Durham	North East	ENG				748	719	1,463	249	240	488		113		
E06000005	Darlington	County Durham	North East	ENG				421	449	870	140	150	290		103		
E06000047	County Durham	County Durham	North East	ENG				2,315	2,274	4,594	772	758	1,531		65		
E07000026	Allerdale	Cumbria	North West	ENG				517	533	1,050	172	178	350		109		
E07000027	Barrow-in-Furness	Cumbria	North West	ENG				330	319	654	110	106	218		44		
E07000028	Carlisle	Cumbria	North West	ENG				570	570	1,140	190	190	380		115		
E07000029	Copeland	Cumbria	North West	ENG				369	330	704	123	110	235		78		
E07000030	Eden	Cumbria	North West	ENG				272	238	510	91	79	170		169		
E07000031	South Lakeland	Cumbria	North West	ENG				569	636	1,205	190	212	402		242		
E06000015	Derby	Derbyshire	East Midlands	ENG				948	1,004	1,962	316	335	654		90		
E07000032	Amber Valley	Derbyshire	East Midlands	ENG				541	534	1,075	180	178	358		167		
E07000033	Bolsover	Derbyshire	East Midlands	ENG				332	326	663	111	109	221		58		
E07000034	Chesterfield	Derbyshire	East Midlands	ENG				508	451	958	169	150	319		86		
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG				349	329	678	116	110	226		265		
E07000036	Erewash	Derbyshire	East Midlands	ENG				478	518	996	159	173	332		168		
E07000037	High Peak	Derbyshire	East Midlands	ENG				350	378	728	117	126	243		202		
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG				459	466	925	153	155	308		177		
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG				340	348	687	113	116	229		218		
E06000026	Plymouth	Devon	South West	ENG				994	1,049	2,043	331	350	681		72		
E06000027	Torbay	Devon	South West	ENG				773	793	1,566	258	264	522		48		
E07000040	East Devon	Devon	South West	ENG				832	923	1,755	277	308	585		238		
E07000041	Exeter	Devon	South West	ENG				457	450	907	152	150	302		193		
E07000042	Mid Devon	Devon	South West	ENG				386	349	735	129	116	245		162		
E07000043	North Devon	Devon	South West	ENG				526	552	1,078	175	184	359		123		
E07000044	South Hams	Devon	South West	ENG				411	388	797	137	129	266		219		
E07000045	Teignbridge	Devon	South West	ENG				652	675	1,327	217	225	442		186		
E07000046	Torridge	Devon	South West	ENG				385	401	784	128	134	261		67		
E07000047	West Devon	Devon	South West	ENG				276	308	584	92	103	195		139		
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG				1,714	1,902	3,621	571	634	1,207		166		
E06000059	Dorset	Dorset	South West	ENG				2,011	2,086	4,107	670	695	1,369		197		
E06000043	Brighton and Hove	East Sussex	South East	ENG				871	880	1,751	290	293	584		140		
E07000061	Eastbourne	East Sussex	South East	ENG				513	600	1,113	171	200	371		106		
E07000062	Hastings	East Sussex	South East	ENG				460	551	1,009	153	184	336		13		
E07000063	Lewes	East Sussex	South East	ENG				451	562	1,018	150	187	339		194		

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for all heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES												
					Age standardised death rates from all heart and circulatory diseases per 100,000			Total number of deaths from all heart and circulatory diseases 2016/18			Average number of annual deaths from all heart and circulatory diseases 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
E07000064	Rother	East Sussex	South East	ENG				585	772	1,357	195	257	452		135		
E07000065	Wealden	East Sussex	South East	ENG				675	840	1,515	225	280	505		254		
E06000033	Southend-on-Sea	Essex	East of England	ENG				812	811	1,628	271	270	543		129		
E06000034	Thurrock	Essex	East of England	ENG				546	448	994	182	149	331		116		
E07000066	Basildon	Essex	East of England	ENG				653	591	1,241	218	197	414		111		
E07000067	Braintree	Essex	East of England	ENG				571	556	1,126	190	185	375		203		
E07000068	Brentwood	Essex	East of England	ENG				346	311	657	115	104	219		287		
E07000069	Castle Point	Essex	East of England	ENG				414	399	813	138	133	271		182		
E07000070	Chelmsford	Essex	East of England	ENG				598	596	1,194	199	199	398		260		
E07000071	Colchester	Essex	East of England	ENG				594	651	1,245	198	217	415		181		
E07000072	Epping Forest	Essex	East of England	ENG				448	464	912	149	155	304		200		
E07000073	Harlow	Essex	East of England	ENG				298	282	580	99	94	193		100		
E07000074	Maldon	Essex	East of England	ENG				269	262	530	90	87	177		211		
E07000075	Rochford	Essex	East of England	ENG				348	309	657	116	103	219		286		
E07000076	Tendring	Essex	East of England	ENG				862	857	1,719	287	286	573		32		
E07000077	Uttlesford	Essex	East of England	ENG				309	279	586	103	93	195		295		
E06000025	South Gloucestershire	Gloucestershire	South West	ENG				922	878	1,805	307	293	602		267		
E07000078	Cheltenham	Gloucestershire	South West	ENG				441	462	903	147	154	301		237		
E07000079	Cotswold	Gloucestershire	South West	ENG				378	377	754	126	126	251		272		
E07000080	Forest of Dean	Gloucestershire	South West	ENG				407	408	815	136	136	272		143		
E07000081	Gloucester	Gloucestershire	South West	ENG				531	441	968	177	147	323		138		
E07000082	Stroud	Gloucestershire	South West	ENG				522	456	978	174	152	326		279		
E07000083	Tewkesbury	Gloucestershire	South West	ENG				374	348	721	125	116	240		261		
E09000001	City of London	Greater London	London	ENG				23	10	31	8	3	10		208		
E09000002	Barking and Dagenham	Greater London	London	ENG				480	430	915	160	143	305		5		
E09000003	Barnet	Greater London	London	ENG				1,087	1,251	2,338	362	417	779		184		
E09000004	Bexley	Greater London	London	ENG				820	861	1,681	273	287	560		190		
E09000005	Brent	Greater London	London	ENG				931	817	1,748	310	272	583		49		
E09000006	Bromley	Greater London	London	ENG				1,098	1,112	2,210	366	371	737		230		
E09000007	Camden	Greater London	London	ENG				485	402	887	162	134	296		132		
E09000008	Croydon	Greater London	London	ENG				1,027	915	1,942	342	305	647		102		
E09000009	Ealing	Greater London	London	ENG				894	759	1,655	298	253	552		88		
E09000010	Enfield	Greater London	London	ENG				977	986	1,968	326	329	656		59		
E09000011	Greenwich	Greater London	London	ENG				639	540	1,179	213	180	393		60		
E09000012	Hackney	Greater London	London	ENG				476	362	836	159	121	279		7		
E09000013	Hammersmith and Fulham	Greater London	London	ENG				395	311	706	132	104	235		96		
E09000014	Haringey	Greater London	London	ENG				572	510	1,082	191	170	361		37		
E09000015	Harrow	Greater London	London	ENG				685	787	1,472	228	262	491		199		
E09000016	Havering	Greater London	London	ENG				908	864	1,772	303	288	591		179		
E09000017	Hillingdon	Greater London	London	ENG				932	838	1,775	311	279	592		151		
E09000018	Hounslow	Greater London	London	ENG				698	604	1,307	233	201	436		95		
E09000019	Islington	Greater London	London	ENG				466	411	880	155	137	293		28		
E09000020	Kensington and Chelsea	Greater London	London	ENG				337	308	645	112	103	215		122		
E09000021	Kingston upon Thames	Greater London	London	ENG				501	465	966	167	155	322		270		
E09000022	Lambeth	Greater London	London	ENG				655	524	1,179	218	175	393		42		
E09000023	Lewisham	Greater London	London	ENG				660	565	1,225	220	188	408		35		
E09000024	Merton	Greater London	London	ENG				534	505	1,039	178	168	346		214		
E09000025	Newham	Greater London	London	ENG				641	492	1,138	214	164	379		12		
E09000026	Redbridge	Greater London	London	ENG				716	667	1,386	239	222	462		160		
E09000027	Richmond upon Thames	Greater London	London	ENG				492	505	997	164	168	332		297		
E09000028	Southwark	Greater London	London	ENG				566	465	1,036	189	155	345		43		
E09000029	Sutton	Greater London	London	ENG				575	615	1,190	192	205	397		227		
E09000030	Tower Hamlets	Greater London	London	ENG				485	399	889	162	133	296		27		
E09000031	Waltham Forest	Greater London	London	ENG				614	528	1,141	205	176	380		45		
E09000032	Wandsworth	Greater London	London	ENG				658	664	1,322	219	221	441		173		
E09000033	Westminster	Greater London	London	ENG				486	427	918	162	142	306		134		
E08000001	Bolton	Greater Manchester	North West	ENG				1,121	992	2,118	374	331	706		47		
E08000002	Bury	Greater Manchester	North West	ENG				727	753	1,480	242	251	493		110		
E08000003	Manchester	Greater Manchester	North West	ENG				1,546	1,386	2,942	515	462	981		2		
E08000004	Oldham	Greater Manchester	North West	ENG				924	815	1,744	308	272	581		29		
E08000005	Rochdale	Greater Manchester	North West	ENG				881	826	1,707	294	275	569		17		
E08000006	Salford	Greater Manchester	North West	ENG				919	883	1,802	306	294	601		20		

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for all heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES												
					Age standardised death rates from all heart and circulatory diseases per 100,000			Total number of deaths from all heart and circulatory diseases 2016/18			Average number of annual deaths from all heart and circulatory diseases 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
E08000007	Stockport	Greater Manchester	North West	ENG				1,281	1,264	2,541	427	421	847		154		
E08000008	Tameside	Greater Manchester	North West	ENG				1,006	967	1,973	335	322	658		23		
E08000009	Trafford	Greater Manchester	North West	ENG				883	878	1,761	294	293	587		209		
E08000010	Wigan	Greater Manchester	North West	ENG				1,418	1,275	2,698	473	425	899		97		
E06000044	Portsmouth	Hampshire	South East	ENG				723	748	1,476	241	249	492		57		
E06000045	Southampton	Hampshire	South East	ENG				771	753	1,524	257	251	508		55		
E07000084	Basingstoke and Deane	Hampshire	South East	ENG				535	537	1,077	178	179	359		246		
E07000085	East Hampshire	Hampshire	South East	ENG				458	568	1,026	153	189	342		285		
E07000086	Eastleigh	Hampshire	South East	ENG				458	457	915	153	152	305		288		
E07000087	Fareham	Hampshire	South East	ENG				514	556	1,070	171	185	357		298		
E07000088	Gosport	Hampshire	South East	ENG				363	358	721	121	119	240		130		
E07000089	Hart	Hampshire	South East	ENG				256	254	510	85	85	170		317		
E07000090	Havant	Hampshire	South East	ENG				567	576	1,143	189	192	381		133		
E07000091	New Forest	Hampshire	South East	ENG				966	1,017	1,988	322	339	663		241		
E07000092	Rushmoor	Hampshire	South East	ENG				267	281	546	89	94	182		196		
E07000093	Test Valley	Hampshire	South East	ENG				491	477	968	164	159	323		262		
E07000094	Winchester	Hampshire	South East	ENG				455	516	971	152	172	324		293		
E06000019	Herefordshire	Herefordshire	West Midlands	ENG				999	1,032	2,031	333	344	677		137		
E07000095	Broxbourne	Hertfordshire	East of England	ENG				319	321	639	106	107	213		153		
E07000096	Dacorum	Hertfordshire	East of England	ENG				508	521	1,029	169	174	343		240		
E07000098	Hertsmeire	Hertfordshire	East of England	ENG				362	383	745	121	128	248		224		
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG				452	474	926	151	158	309		269		
E07000102	Three Rivers	Hertfordshire	East of England	ENG				335	351	686	112	117	229		291		
E07000103	Watford	Hertfordshire	East of England	ENG				297	309	606	99	103	202		195		
E07000240	St Albans	Hertfordshire	East of England	ENG				448	447	895	149	149	298		306		
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG				390	410	805	130	137	268		215		
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG				440	416	855	147	139	285		307		
E07000243	Stevenage	Hertfordshire	East of England	ENG				302	271	569	101	90	190		117		
E06000046	Isle of Wight	Isle of Wight	South East	ENG				928	1,153	2,081	309	384	694		80		
E06000035	Medway	Kent	South East	ENG				811	769	1,584	270	256	528		98		
E07000105	Ashford	Kent	South East	ENG				440	436	876	147	145	292		152		
E07000106	Canterbury	Kent	South East	ENG				657	674	1,331	219	225	444		185		
E07000107	Dartford	Kent	South East	ENG				340	358	698	113	119	233		145		
E07000108	Dover	Kent	South East	ENG				526	523	1,049	175	174	350		107		
E07000109	Gravesham	Kent	South East	ENG				404	338	741	135	113	247		119		
E07000110	Maldstone	Kent	South East	ENG				599	595	1,194	200	198	398		188		
E07000111	Sevenoaks	Kent	South East	ENG				424	455	881	141	152	294		253		
E07000112	Folkestone & Hythe	Kent	South East	ENG				479	509	988	160	170	329		84		
E07000113	Swale	Kent	South East	ENG				472	502	974	157	167	325		69		
E07000114	Thanet	Kent	South East	ENG				721	674	1,395	240	225	465		34		
E07000115	Tonbridge and Malling	Kent	South East	ENG				462	381	843	154	127	281		236		
E07000116	Tunbridge Wells	Kent	South East	ENG				433	455	888	144	152	296		273		
E06000008	Blackburn with Darwen	Lancashire	North West	ENG				525	488	1,018	175	163	339		14		
E06000009	Blackpool	Lancashire	North West	ENG				786	757	1,543	262	252	514		1		
E07000117	Burnley	Lancashire	North West	ENG				357	323	679	119	108	226		11		
E07000118	Chorley	Lancashire	North West	ENG				492	469	961	164	156	320		192		
E07000119	Fylde	Lancashire	North West	ENG				446	495	941	149	165	314		198		
E07000120	Hyndburn	Lancashire	North West	ENG				335	319	651	112	106	217		18		
E07000121	Lancaster	Lancashire	North West	ENG				622	614	1,236	207	205	412		112		
E07000122	Pendle	Lancashire	North West	ENG				410	356	765	137	119	255		36		
E07000123	Preston	Lancashire	North West	ENG				530	477	1,007	177	159	336		46		
E07000124	Ribble Valley	Lancashire	North West	ENG				277	260	534	92	87	178		282		
E07000125	Rossendale	Lancashire	North West	ENG				269	280	549	90	93	183		91		
E07000126	South Ribble	Lancashire	North West	ENG				440	416	863	147	139	288		210		
E07000127	West Lancashire	Lancashire	North West	ENG				546	551	1,097	182	184	366		178		
E07000128	Wyre	Lancashire	North West	ENG				675	622	1,297	225	207	432		147		
E06000016	Leicester	Leicestershire	East Midlands	ENG				1,167	1,016	2,183	389	339	728		22		
E07000129	Blaby	Leicestershire	East Midlands	ENG				380	325	705	127	108	235		281		
E07000130	Charnwood	Leicestershire	East Midlands	ENG				610	621	1,236	203	207	412		244		
E07000131	Harborough	Leicestershire	East Midlands	ENG				343	312	655	114	104	218		308		
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG				441	403	844	147	134	281		232		
E07000133	Melton	Leicestershire	East Midlands	ENG				202	192	393	67	64	131		248		

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for all heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES												
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised death rates from all heart and circulatory diseases per 100,000			Total number of deaths from all heart and circulatory diseases 2016/18			Average number of annual deaths from all heart and circulatory diseases 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG				373	384	757	124	128	252		216		
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG				255	254	508	85	85	169		249		
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				786	700	1,486	262	233	495		66		
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				725	637	1,361	242	212	454		120		
E07000136	Boston	Lincolnshire	East Midlands	ENG				370	313	683	123	104	228		85		
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG				898	775	1,673	299	258	558		30		
E07000138	Lincoln	Lincolnshire	East Midlands	ENG				353	391	749	118	130	250		68		
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG				539	475	1,019	180	158	340		268		
E07000140	South Holland	Lincolnshire	East Midlands	ENG				521	418	939	174	139	313		144		
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG				635	676	1,311	212	225	437		234		
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG				455	413	867	152	138	289		146		
E08000011	Knowsley	Merseyside	North West	ENG				571	546	1,117	190	182	372		3		
E08000012	Liverpool	Merseyside	North West	ENG				1,818	1,525	3,353	606	508	1,118		4		
E08000013	St. Helens	Merseyside	North West	ENG				755	715	1,480	252	238	493		40		
E08000014	Sefton	Merseyside	North West	ENG				1,266	1,261	2,537	422	420	846		89		
E08000015	Wirral	Merseyside	North West	ENG				1,432	1,407	2,844	477	469	948		77		
E07000143	Breckland	Norfolk	East of England	ENG				694	642	1,336	231	214	445		127		
E07000144	Broadland	Norfolk	East of England	ENG				673	649	1,322	224	216	441		257		
E07000145	Great Yarmouth	Norfolk	East of England	ENG				564	446	1,010	188	149	337		24		
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG				737	739	1,476	246	246	492		79		
E07000147	North Norfolk	Norfolk	East of England	ENG				644	626	1,270	215	209	423		94		
E07000148	Norwich	Norfolk	East of England	ENG				473	488	961	158	163	320		61		
E07000149	South Norfolk	Norfolk	East of England	ENG				618	589	1,207	206	196	402		225		
E07000150	Corby	Northamptonshire	East Midlands	ENG				216	184	400	72	61	133		70		
E07000151	Daventry	Northamptonshire	East Midlands	ENG				297	295	590	99	98	197		243		
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG				353	309	667	118	103	222		226		
E07000153	Kettering	Northamptonshire	East Midlands	ENG				355	310	665	118	103	222		161		
E07000154	Northampton	Northamptonshire	East Midlands	ENG				716	641	1,357	239	214	452		105		
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG				298	278	575	99	93	192		312		
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG				281	278	558	94	93	186		124		
E06000057	Northumberland	Northumberland	North East	ENG				1,479	1,348	2,828	493	449	943		131		
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG				1,007	905	1,912	336	302	637		10		
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG				500	411	910	167	137	303		63		
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG				527	503	1,030	176	168	343		108		
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG				508	501	1,009	169	167	336		223		
E07000173	Gedling	Nottinghamshire	East Midlands	ENG				473	517	990	158	172	330		207		
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG				450	403	858	150	134	286		56		
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG				490	474	964	163	158	321		148		
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG				469	451	920	156	150	307		314		
E07000177	Cherwell	Oxfordshire	South East	ENG				437	435	872	146	145	291		220		
E07000178	Oxford	Oxfordshire	South East	ENG				359	371	730	120	124	243		189		
E07000179	South Oxfordshire	Oxfordshire	South East	ENG				484	467	951	161	156	317		302		
E07000180	Vale of White Horse	Oxfordshire	South East	ENG				421	420	841	140	140	280		305		
E07000181	West Oxfordshire	Oxfordshire	South East	ENG				440	373	813	147	124	271		301		
E06000017	Rutland	Rutland	East Midlands	ENG				156	176	333	52	59	111		303		
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG				616	546	1,167	205	182	389		99		
E06000051	Shropshire	Shropshire	West Midlands	ENG				1,407	1,482	2,899	469	494	966		165		
E07000246	Somerset West and Taunton	Somerset	South West	ENG				757	800	1,557	252	267	519		142		
E06000022	Bath and North East Somerset	Somerset	South West	ENG				686	680	1,366	229	227	455		274		
E06000024	North Somerset	Somerset	South West	ENG				952	930	1,887	317	310	629		221		
E07000187	Mendip	Somerset	South West	ENG				484	459	943	161	153	314		170		
E07000188	Sedgemoor	Somerset	South West	ENG				545	496	1,039	182	165	346		121		
E07000189	South Somerset	Somerset	South West	ENG				807	746	1,553	269	249	518		163		
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG				1,045	921	1,968	348	307	656		15		
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG				443	372	815	148	124	272		126		
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG				474	455	934	158	152	311		157		
E07000194	Lichfield	Staffordshire	West Midlands	ENG				485	477	967	162	159	322		250		
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG				535	472	1,007	178	157	336		150		
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG				530	499	1,029	177	166	343		235		
E07000197	Stafford	Staffordshire	West Midlands	ENG				571	611	1,182	190	204	394		233		
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG				443	482	925	148	161	308		204		
E07000199	Tamworth	Staffordshire	West Midlands	ENG				266	265	532	89	88	177		125		

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for all heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES												
					Age standardised death rates from all heart and circulatory diseases per 100,000			Total number of deaths from all heart and circulatory diseases 2016/18			Average number of annual deaths from all heart and circulatory diseases 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
E07000244	East Suffolk	Suffolk	East of England	ENG				1,237	1,241	2,483	412	414	828		158		
E07000245	West Suffolk	Suffolk	East of England	ENG				688	684	1,372	229	228	457		176		
E07000200	Babergh	Suffolk	East of England	ENG				372	390	762	124	130	254		212		
E07000202	Ipswich	Suffolk	East of England	ENG				504	420	924	168	140	308		71		
E07000203	Mid Suffolk	Suffolk	East of England	ENG				396	410	806	132	137	269		229		
E07000207	Elmbridge	Surrey	South East	ENG				470	520	990	157	173	330		310		
E07000208	Epsom and Ewell	Surrey	South East	ENG				243	223	464	81	74	155		299		
E07000209	Guildford	Surrey	South East	ENG				427	459	886	142	153	295		296		
E07000210	Mole Valley	Surrey	South East	ENG				331	322	653	110	107	218		294		
E07000211	Reigate and Banstead	Surrey	South East	ENG				522	562	1,084	174	187	361		276		
E07000212	Runnymede	Surrey	South East	ENG				302	278	582	101	93	194		256		
E07000213	Spelthorne	Surrey	South East	ENG				360	373	733	120	124	244		201		
E07000214	Surrey Heath	Surrey	South East	ENG				309	318	625	103	106	208		309		
E07000215	Tandridge	Surrey	South East	ENG				311	309	620	104	103	207		258		
E07000216	Waverley	Surrey	South East	ENG				428	499	927	143	166	309		313		
E07000217	Woking	Surrey	South East	ENG				293	320	611	98	107	204		283		
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG				999	851	1,850	333	284	617		74		
E08000022	North Tyneside	Tyne & Wear	North East	ENG				856	830	1,691	285	277	564		128		
E08000023	South Tyneside	Tyne & Wear	North East	ENG				630	572	1,202	210	191	401		26		
E08000024	Sunderland	Tyne & Wear	North East	ENG				1,129	1,075	2,204	376	358	735		33		
E08000037	Gateshead	Tyne & Wear	North East	ENG				945	805	1,750	315	268	583		54		
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG				310	258	570	103	86	190		155		
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG				526	450	975	175	150	325		101		
E07000220	Rugby	Warwickshire	West Midlands	ENG				413	378	791	138	126	264		222		
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG				574	539	1,113	191	180	371		259		
E07000222	Warwick	Warwickshire	West Midlands	ENG				534	536	1,070	178	179	357		263		
E08000025	Birmingham	West Midlands	West Midlands	ENG				3,574	3,315	6,889	1,191	1,105	2,296		6		
E08000026	Coventry	West Midlands	West Midlands	ENG				1,146	1,044	2,193	382	348	731		81		
E08000027	Dudley	West Midlands	West Midlands	ENG				1,383	1,413	2,796	461	471	932		104		
E08000028	Sandwell	West Midlands	West Midlands	ENG				1,297	1,160	2,453	432	387	818		8		
E08000029	Solihull	West Midlands	West Midlands	ENG				870	802	1,672	290	267	557		206		
E08000030	Walsall	West Midlands	West Midlands	ENG				1,210	1,122	2,332	403	374	777		31		
E08000031	Wolverhampton	West Midlands	West Midlands	ENG				1,225	1,166	2,401	408	389	800		19		
E07000223	Adur	West Sussex	South East	ENG				280	303	582	93	101	194		164		
E07000224	Arun	West Sussex	South East	ENG				946	924	1,870	315	308	623		149		
E07000225	Chichester	West Sussex	South East	ENG				602	612	1,214	201	204	405		213		
E07000226	Crawley	West Sussex	South East	ENG				297	282	579	99	94	193		136		
E07000227	Horsham	West Sussex	South East	ENG				513	523	1,036	171	174	345		290		
E07000228	Mid Sussex	West Sussex	South East	ENG				547	538	1,085	182	179	362		311		
E07000229	Worthing	West Sussex	South East	ENG				545	595	1,140	182	198	380		174		
E06000030	Swindon	Wiltshire	South West	ENG				715	652	1,367	238	217	456		171		
E06000054	Wiltshire	Wiltshire	South West	ENG				1,996	1,968	3,974	665	656	1,325		231		
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG				433	438	871	144	146	290		271		
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG				405	462	867	135	154	289		187		
E07000236	Redditch	Worcestershire	West Midlands	ENG				275	246	521	92	82	174		118		
E07000237	Worcester	Worcestershire	West Midlands	ENG				389	368	756	130	123	252		159		
E07000238	Wychavon	Worcestershire	West Midlands	ENG				549	499	1,048	183	166	349		191		
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG				515	469	984	172	156	328		114		
E06000010	Kingston upon Hull	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				1,087	965	2,052	362	322	684		9		
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				1,708	1,602	3,310	569	534	1,103		217		
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG				656	590	1,251	219	197	417		16		
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG				681	589	1,270	227	196	423		62		
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				799	786	1,590	266	262	530		275		
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				262	330	592	87	110	197		239		
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				384	398	782	128	133	261		255		
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				669	740	1,409	223	247	470		278		
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				215	189	407	72	63	136		251		
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				322	256	574	107	85	191		180		
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				669	734	1,401	223	245	467		75		
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				356	342	697	119	114	232		252		
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				978	876	1,854	326	292	618		38		
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				1,330	1,194	2,524	443	398	841		41		

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for all heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2016/18

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					Age standardised death rates from all heart and circulatory diseases per 100,000			Total number of deaths from all heart and circulatory diseases 2016/18			Average number of annual deaths from all heart and circulatory diseases 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				1,062	942	2,004	354	314	668		50		
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				2,077	2,003	4,086	692	668	1,362		93		
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				2,116	1,991	4,113	705	664	1,371		21		
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				892	794	1,691	297	265	564		76		
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				1,658	1,662	3,325	553	554	1,108		87		
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				2,863	2,736	5,602	954	912	1,867		92		
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				1,355	1,219	2,584	452	406	861		64		
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	304.3	205.1	247.5	424	431	855	141	144	285	2	10		
N09000002	Armagh, Banbridge & Craigavon		Northern Ireland	NI	352.4	222.1	279.0	706	623	1,329	235	208	443	10	7		
N09000003	Belfast		Northern Ireland	NI	324.9	220.2	265.3	1,053	1,120	2,173	351	373	724	7	4		
N09000004	Causeway Coast & Glens		Northern Ireland	NI	323.5	218.2	265.8	508	484	992	169	161	331	8	5		
N09000005	Derry & Strabane		Northern Ireland	NI	341.9	231.3	278.4	457	406	863	152	135	288	9	1		
N09000006	Fermanagh & Omagh		Northern Ireland	NI	325.6	206.1	257.7	390	346	736	130	115	245	5	2		
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	303.1	198.7	245.3	463	446	909	154	149	303	1	11		
N09000008	Mid & East Antrim		Northern Ireland	NI	310.9	217.8	261.1	488	513	1,001	163	171	334	6	8		
N09000009	Mid Ulster		Northern Ireland	NI	344.9	233.5	282.2	447	427	874	149	142	291	11	6		
N09000010	Newry, Mourne & Down		Northern Ireland	NI	308.7	211.8	256.3	534	510	1,044	178	170	348	4	3		
N09000011	North Down & Ards		Northern Ireland	NI	309.4	209.0	251.5	592	612	1,204	197	204	401	3	9		
S12000005	Clackmannanshire		Scotland	SCO	380.9	308.9	345.9	232	239	471	77	80	157	19	8		
S12000006	Dumfries & Galloway		Scotland	SCO	396.9	284.8	335.3	911	890	1,801	304	297	600	15	10		
S12000008	East Ayrshire		Scotland	SCO	476.7	339.9	398.4	685	680	1,365	228	227	455	32	6		
S12000010	East Lothian		Scotland	SCO	360.3	254.3	303.5	465	465	930	155	155	310	6	22		
S12000011	East Renfrewshire		Scotland	SCO	303.3	229.3	262.9	354	437	791	118	146	264	1	32		
S12000013	Eilean Siar		Scotland	SCO	443.3	274.9	348.3	179	177	356	60	59	119	21	9		
S12000014	Falkirk		Scotland	SCO	403.8	324.3	363.9	745	805	1,550	248	268	517	28	16		
S12000047	Fife		Scotland	SCO	405.7	295.7	345.8	1,835	1,892	3,727	612	631	1,242	18	14		
S12000017	Highland		Scotland	SCO	396.3	274.4	329.4	1,216	1,195	2,411	405	398	804	13	19		
S12000018	Inverclyde		Scotland	SCO	468.7	286.8	358.3	443	444	887	148	148	296	23	3		
S12000019	Midlothian		Scotland	SCO	376.5	282.3	322.0	365	386	751	122	129	250	9	18		
S12000020	Moray		Scotland	SCO	376.6	296.0	331.9	468	512	980	156	171	327	14	23		
S12000021	North Ayrshire		Scotland	SCO	447.5	286.8	354.8	780	718	1,498	260	239	499	22	2		
S12000023	Orkney Islands		Scotland	SCO	412.7	259.1	326.9	131	106	237	44	35	79	11	25		
S12000048	Perth & Kinross		Scotland	SCO	356.5	262.6	306.2	781	848	1,629	260	283	543	8	27		
S12000026	Scottish Borders		Scotland	SCO	367.7	230.9	287.8	585	531	1,116	195	177	372	3	21		
S12000027	Shetland Islands		Scotland	SCO	419.6	243.9	325.7	112	89	201	37	30	67	10	24		
S12000028	South Ayrshire		Scotland	SCO	414.3	291.3	347.4	710	719	1,429	237	240	476	20	13		
S12000029	South Lanarkshire		Scotland	SCO	413.4	281.0	339.5	1,518	1,500	3,018	506	500	1,006	17	11		
S12000030	Stirling		Scotland	SCO	331.6	251.2	289.1	356	394	750	119	131	250	4	28		
S12000033	Aberdeen City		Scotland	SCO	422.1	311.0	360.8	941	1,051	1,993	314	350	664	26	26		
S12000034	Aberdeenshire		Scotland	SCO	422.4	306.6	359.0	1,240	1,236	2,476	413	412	825	24	29		
S12000035	Argyll & Bute		Scotland	SCO	393.1	289.1	337.9	500	535	1,035	167	178	345	16	15		
S12000036	City of Edinburgh		Scotland	SCO	367.8	258.4	305.6	1,803	2,007	3,810	601	669	1,270	7	30		
S12000038	Renfrewshire		Scotland	SCO	429.5	305.2	360.5	875	890	1,765	292	297	588	25	12		
S12000039	West Dunbartonshire		Scotland	SCO	448.6	331.0	384.1	434	478	912	145	159	304	30	1		
S12000040	West Lothian		Scotland	SCO	396.7	274.1	327.9	695	627	1,322	232	209	441	12	17		
S12000041	Angus		Scotland	SCO	358.0	258.9	300.3	567	639	1,206	189	213	402	5	20		
S12000042	Dundee City		Scotland	SCO	470.6	286.0	362.8	759	718	1,477	253	239	492	27	7		
S12000050	North Lanarkshire		Scotland	SCO	442.3	301.1	364.1	1,535	1,418	2,953	512	473	984	29	5		
S12000045	East Dunbartonshire		Scotland	SCO	332.9	229.3	275.1	496	505	1,001	165	168	334	2	31		
S12000049	Glasgow City		Scotland	SCO	494.7	319.1	394.3	2,641	2,645	5,286	880	882	1,762	31	4		
W06000003	Conwy	Clwyd	Wales / Cymru	WAL				667	672	1,339	222	224	446		14		
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL				585	490	1,075	195	163	358		9		
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL				671	565	1,241	224	188	414		18		
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL				612	579	1,191	204	193	397		16		
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL				360	341	699	120	114	233		20		
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL				655	649	1,304	218	216	435		13		
W06000010	Cardiganshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL				1,075	966	2,041	358	322	680		10		
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL				775	738	1,512	258	246	504		5		
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL				362	353	714	121	118	238		1		
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL				428	390	821	143	130	274		6		
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL				467	415	882	156	138	294		22		
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL				620	613	1,233	207	204	411		7		

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for all heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES												
					Age standardised death rates from all heart and circulatory diseases per 100,000			Total number of deaths from all heart and circulatory diseases 2016/18			Average number of annual deaths from all heart and circulatory diseases 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1 = most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL				374	380	754	125	127	251		11		
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL				571	578	1,149	190	193	383		17		
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				676	665	1,341	225	222	447		8		
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				1,011	955	1,966	337	318	655		4		
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				280	269	549	93	90	183		2		
W06000023	Powys	Powys	Wales / Cymru	WAL				732	760	1,492	244	253	497		21		
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL				498	476	974	166	159	325		19		
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL				1,160	982	2,147	387	327	716		15		
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL				1,151	990	2,141	384	330	714		12		
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL				712	690	1,402	237	230	467		3		

Notes: ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28. Directly age-standardised using the 2013 European Standard Population. Some data have been suppressed.

Average IMD ranks for Scotland, Wales, and Northern Ireland calculated in line with methodology for used for England

Source: England: Mortality rates not accessible at time of publication. Number of Deaths are taken from NOMIS Mortality Statistics

Wales: Mortality rates not accessible at time of publication. Number of Deaths are taken from NOMIS Mortality Statistics

Scotland: Mortality rates calculated in partnership with the General Register Office for Scotland.

Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.

England: Average IMD ranks taken from English Indices of Deprivation

Wales: Average IMD ranks calculated from Welsh Index of Multiple Deprivation

Scotland: Average IMD ranks calculated from Scottish Index of Multiple Deprivation

Northern Ireland: Average IMD ranks calculated from Northern Ireland Multiple Deprivation Measures

<https://www.nomisweb.co.uk/articles/983.aspx>

<https://www.nomisweb.co.uk/articles/983.aspx>

<https://www.gov.uk/government/statistics/english-indices-of-deprivation-2019>

<https://stats.wales.gov.wales/Catalogue/Community-Safety-and-Social-Inclusion/Welsh-Index-of-Multiple-Deprivation>

<https://www.gov.scot/collections/scottish-index-of-multiple-deprivation-2020/>

<https://www.nisra.gov.uk/statistics/deprivation>

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom latest 3 years available

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					UNDER 75										
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths, latest 3 years available			Average number of annual CVD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N
E06000032	Luton	Bedfordshire	East of England	ENG	129.7	55.8	91.9	258	114	372	86	38	124	279	52
E06000055	Bedford	Bedfordshire	East of England	ENG	102.7	39.9	70.7	217	88	305	72	29	102	173	156
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	77.6	34.1	55.4	284	130	414	95	43	138	80	264
E06000039	Slough	Berkshire	South East	ENG	138.1	74.2	105.7	170	94	264	57	31	88	309	73
E06000038	Reading	Berkshire	South East	ENG	103.5	49.8	76.6	162	78	240	54	26	80	209	141
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	70.1	35.3	52.3	131	70	201	44	23	67	55	304
E06000037	West Berkshire	Berkshire	South East	ENG	70.6	29.2	49.6	152	65	217	51	22	72	34	289
E06000041	Wokingham	Berkshire	South East	ENG	70.4	27.5	48.3	145	60	205	48	20	68	26	316
E06000036	Bracknell Forest	Berkshire	South East	ENG	65.2	27.9	46.1	90	40	130	30	13	43	14	284
E06000023	Bristol	Bristol	South West	ENG	109.2	48.3	78.3	471	215	686	157	72	229	221	82
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	99.2	46.2	71.9	288	141	429	96	47	143	179	172
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG	80.4	33.9	56.5	193	86	279	64	29	93	91	277
E07000007	Wycombe	Buckinghamshire	South East	ENG	74.7	24.1	48.7	163	56	219	54	19	73	29	280
E07000005	Chiltern	Buckinghamshire	South East	ENG	68.5	26.1	46.5	90	36	126	30	12	42	17	315
E07000006	South Bucks	Buckinghamshire	South East	ENG	63.1	30.9	46.0	57	31	88	19	10	29	13	292
E06000031	Peterborough	Cambridgeshire	East of England	ENG	127.1	53.7	89.7	278	118	396	93	39	132	275	53
E07000010	Fenland	Cambridgeshire	East of England	ENG	108.3	54.1	80.8	162	83	245	54	28	82	231	51
E07000008	Cambridge	Cambridgeshire	East of England	ENG	95.4	33.1	63.6	109	38	147	36	13	49	136	205
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	83.3	43.7	62.9	101	55	156	34	18	52	131	266
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	79.9	23.2	51.3	199	58	257	66	19	86	50	247
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	57.0	30.2	43.4	121	66	187	40	22	62	8	300
E06000006	Halton	Cheshire	North West	ENG	120.7	57.7	88.4	206	105	311	69	35	104	272	39
E06000007	Warrington	Cheshire	North West	ENG	109.9	46.1	77.4	302	133	435	101	44	145	216	175
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	101.3	42.7	71.3	487	216	703	162	72	234	176	183
E06000049	Cheshire East	Cheshire	North West	ENG	95.9	35.0	64.7	538	209	747	179	70	249	142	228
E06000052	Cornwall	Cornwall	South West	ENG	94.0	41.3	66.7	842	402	1,244	281	134	415	153	83
E06000053	Isles of Scilly	Cornwall	South West	ENG	-	-	-	-	-	-	-	-	-	1	245
E06000001	Hartlepool	County Durham	North East	ENG	140.4	53.8	96.3	172	68	240	57	23	80	293	25
E06000005	Darlington	County Durham	North East	ENG	108.4	49.4	78.2	155	75	230	52	25	77	220	103
E06000047	County Durham	County Durham	North East	ENG	102.5	52.0	76.7	763	405	1,168	254	135	389	211	65
E06000004	Stockton-on-Tees	County Durham	North East	ENG	109.9	40.8	74.4	277	107	384	92	36	128	196	113
E07000029	Copeland	Cumbria	North West	ENG	123.3	63.0	93.6	132	65	197	44	22	66	285	78
E07000027	Barrow-in-Furness	Cumbria	North West	ENG	124.0	58.7	90.9	123	59	182	41	20	61	277	44
E07000028	Carlisle	Cumbria	North West	ENG	123.4	51.9	87.0	190	83	273	63	28	91	264	115
E07000026	Allerdale	Cumbria	North West	ENG	105.9	50.2	77.8	163	80	243	54	27	81	218	109
E07000030	Eden	Cumbria	North West	ENG	73.6	37.0	55.2	67	34	101	22	11	34	79	169
E07000031	South Lakeland	Cumbria	North West	ENG	75.3	29.4	51.9	133	57	190	44	19	63	52	242
E06000015	Derby	Derbyshire	East Midlands	ENG	117.8	49.9	82.8	334	152	486	111	51	162	240	90
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	121.4	42.9	81.4	183	67	250	61	22	83	235	86
E07000033	Bolsover	Derbyshire	East Midlands	ENG	101.5	46.2	73.7	115	54	169	38	18	56	190	58
E07000036	Erewash	Derbyshire	East Midlands	ENG	100.9	42.5	71.0	159	71	230	53	24	77	175	168
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	89.9	45.2	67.3	173	90	263	58	30	88	156	167
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	81.7	40.4	60.6	132	70	202	44	23	67	114	177
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	87.0	34.7	60.6	122	49	171	41	16	57	114	218
E07000037	High Peak	Derbyshire	East Midlands	ENG	75.8	41.2	58.5	106	59	165	35	20	55	103	202
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	76.8	31.6	54.0	94	40	134	31	13	45	64	265
E06000026	Plymouth	Devon	South West	ENG	107.2	51.4	78.6	346	176	522	115	59	174	222	72
E07000043	North Devon	Devon	South West	ENG	100.7	52.7	75.9	150	87	237	50	29	79	204	123
E06000027	Torbay	Devon	South West	ENG	110.4	42.8	75.6	236	99	335	79	33	112	202	48
E07000046	Torridge	Devon	South West	ENG	100.7	41.4	70.2	119	49	168	40	16	56	171	67
E07000047	West Devon	Devon	South West	ENG	96.3	43.2	69.2	93	40	133	31	13	44	168	139

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom latest 3 years available

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75									
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths, latest 3 years available			Average number of annual CVD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N
E07000041	Exeter	Devon	South West	ENG	101.3	31.2	64.6	132	45	177	44	15	59	141
E07000042	Mid Devon	Devon	South West	ENG	81.6	34.4	57.7	102	43	145	34	14	48	99
E07000045	Teignbridge	Devon	South West	ENG	78.2	31.5	54.0	170	73	243	57	24	81	64
E07000044	South Hams	Devon	South West	ENG	77.9	23.8	49.6	117	41	158	39	14	53	34
E07000040	East Devon	Devon	South West	ENG	69.3	28.3	47.9	168	80	248	56	27	83	23
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	82.2	37.4	59.3	431	208	639	144	69	213	106
E06000059	Dorset	Dorset	South West	ENG	82.3	31.4	56.0	518	212	730	173	71	243	86
E07000062	Hastings	East Sussex	South East	ENG	144.0	63.2	102.3	183	85	268	61	28	89	303
E06000043	Brighton and Hove	East Sussex	South East	ENG	103.7	40.0	71.7	307	120	427	102	40	142	177
E07000061	Eastbourne	East Sussex	South East	ENG	93.1	33.7	62.0	135	54	189	45	18	63	124
E07000063	Lewes	East Sussex	South East	ENG	70.0	32.5	50.2	106	54	160	35	18	53	43
E07000065	Wealden	East Sussex	South East	ENG	72.9	28.0	49.3	183	79	262	61	26	87	32
E07000064	Rother	East Sussex	South East	ENG	67.7	31.0	48.6	112	52	164	37	17	55	28
E07000073	Harlow	Essex	East of England	ENG	141.0	50.8	93.6	130	52	182	43	17	61	285
E07000076	Tendring	Essex	East of England	ENG	114.8	50.8	81.2	276	133	409	92	44	136	233
E06000034	Thurrock	Essex	East of England	ENG	113.5	47.8	80.2	215	91	306	72	30	102	228
E07000066	Basildon	Essex	East of England	ENG	104.3	46.6	74.2	230	112	342	77	37	114	193
E06000033	Southend-on-Sea	Essex	East of England	ENG	111.1	39.2	74.0	256	97	353	85	32	118	192
E07000074	Maldon	Essex	East of England	ENG	83.7	51.4	67.4	92	59	151	31	20	50	159
E07000069	Castle Point	Essex	East of England	ENG	91.0	36.7	62.6	127	57	184	42	19	61	128
E07000067	Braintree	Essex	East of England	ENG	87.2	37.8	61.6	182	85	267	61	28	89	121
E07000070	Chelmsford	Essex	East of England	ENG	78.3	32.1	54.2	177	78	255	59	26	85	68
E07000068	Brentwood	Essex	East of England	ENG	82.5	26.2	53.5	83	28	111	28	9	37	63
E07000071	Colchester	Essex	East of England	ENG	75.8	32.7	53.4	170	80	250	57	27	83	62
E07000072	Epping Forest	Essex	East of England	ENG	79.1	28.4	52.8	134	53	187	45	18	62	56
E07000077	Uttlesford	Essex	East of England	ENG	69.6	33.2	51.2	85	41	126	28	14	42	49
E07000075	Rochford	Essex	East of England	ENG	58.5	24.6	40.8	77	35	112	26	12	37	4
E07000081	Gloucester	Gloucestershire	South West	ENG	122.7	50.5	85.6	187	83	270	62	28	90	255
E07000078	Cheltenham	Gloucestershire	South West	ENG	101.6	30.5	64.5	145	47	192	48	16	64	140
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	76.5	36.0	55.8	272	136	408	91	45	136	84
E07000083	Tewkesbury	Gloucestershire	South West	ENG	75.0	34.8	54.3	97	48	145	32	16	48	70
E07000082	Stroud	Gloucestershire	South West	ENG	76.5	30.8	53.0	137	57	194	46	19	65	59
E07000080	Forest of Dean	Gloucestershire	South West	ENG	72.9	33.6	52.8	100	49	149	33	16	50	56
E07000079	Cotswold	Gloucestershire	South West	ENG	63.7	30.3	46.2	89	46	135	30	15	45	15
E09000025	Newham	Greater London	London	ENG	129.2	63.3	95.0	317	157	474	106	52	158	290
E09000030	Tower Hamlets	Greater London	London	ENG	119.6	68.8	94.3	221	119	340	74	40	113	289
E09000002	Barking and Dagenham	Greater London	London	ENG	139.9	51.3	93.8	235	90	325	78	30	108	288
E09000012	Hackney	Greater London	London	ENG	137.6	54.5	93.7	255	107	362	85	36	121	287
E09000022	Lambeth	Greater London	London	ENG	133.4	56.5	92.9	304	137	441	101	46	147	283
E09000023	Lewisham	Greater London	London	ENG	119.0	56.0	86.0	288	140	428	96	47	143	260
E09000031	Waltham Forest	Greater London	London	ENG	118.0	55.7	85.5	286	139	425	95	46	142	253
E09000019	Islington	Greater London	London	ENG	112.8	54.8	82.6	198	103	301	66	34	100	238
E09000014	Haringey	Greater London	London	ENG	117.3	48.7	80.7	264	120	384	88	40	128	230
E09000005	Brent	Greater London	London	ENG	113.0	48.6	79.9	361	156	517	120	52	172	226
E09000018	Hounslow	Greater London	London	ENG	107.6	53.5	79.9	280	143	423	93	48	141	226
E09000011	Greenwich	Greater London	London	ENG	106.2	50.2	77.7	273	127	400	91	42	133	217
E09000028	Southwark	Greater London	London	ENG	109.4	46.5	76.8	262	117	379	87	39	126	212
E09000032	Wandsworth	Greater London	London	ENG	103.8	50.8	75.7	244	129	373	81	43	124	203
E09000009	Ealing	Greater London	London	ENG	104.7	48.2	75.5	352	169	521	117	56	174	201
E09000017	Hillingdon	Greater London	London	ENG	104.1	42.2	72.4	315	133	448	105	44	149	183
E09000010	Enfield	Greater London	London	ENG	109.9	37.9	72.1	353	137	490	118	46	163	180

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom latest 3 years available

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					UNDER 75										
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths, latest 3 years available			Average number of annual CVD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N
E09000016	Havering	Greater London	London	ENG	102.5	42.1	70.8	308	139	447	103	46	149	174	179
E09000013	Hammersmith and Fulham	Greater London	London	ENG	103.4	38.4	68.2	157	66	223	52	22	74	163	96
E09000024	Merton	Greater London	London	ENG	96.9	41.0	67.3	187	88	275	62	29	92	156	214
E09000008	Croydon	Greater London	London	ENG	93.9	41.5	66.4	371	180	551	124	60	184	152	102
E09000026	Redbridge	Greater London	London	ENG	92.0	40.0	65.3	267	117	384	89	39	128	147	160
E09000007	Camden	Greater London	London	ENG	88.6	38.3	62.7	200	93	293	67	31	98	130	132
E09000004	Bexley	Greater London	London	ENG	85.6	37.7	60.4	233	114	347	78	38	116	112	190
E09000021	Kingston upon Thames	Greater London	London	ENG	86.9	31.0	58.1	152	57	209	51	19	70	101	270
E09000029	Sutton	Greater London	London	ENG	80.4	35.0	56.8	180	82	262	60	27	87	94	227
E09000003	Barnet	Greater London	London	ENG	80.9	31.1	54.8	320	133	453	107	44	151	75	184
E09000033	Westminster	Greater London	London	ENG	77.6	33.3	54.8	183	82	265	61	27	88	75	134
E09000006	Bromley	Greater London	London	ENG	79.9	31.8	54.5	306	135	441	102	45	147	72	230
E09000015	Harrow	Greater London	London	ENG	72.1	35.1	53.0	197	103	300	66	34	100	59	199
E09000001	City of London	Greater London	London	ENG	83.0	-	50.8	10	1	11	3	0	4	46	208
E09000027	Richmond upon Thames	Greater London	London	ENG	66.0	31.7	48.2	145	76	221	48	25	74	25	297
E09000020	Kensington and Chelsea	Greater London	London	ENG	63.3	26.3	43.5	108	52	160	36	17	53	9	122
E08000003	Manchester	Greater Manchester	North West	ENG	164.2	86.4	124.6	687	364	1,051	229	121	350	317	2
E08000005	Rochdale	Greater Manchester	North West	ENG	144.0	72.6	107.4	378	199	577	126	66	192	312	17
E08000008	Tameside	Greater Manchester	North West	ENG	142.7	68.1	105.0	416	203	619	139	68	206	306	23
E08000004	Oldham	Greater Manchester	North West	ENG	150.1	62.4	104.3	401	181	582	134	60	194	305	29
E08000006	Salford	Greater Manchester	North West	ENG	134.7	61.7	98.2	366	168	534	122	56	178	298	20
E08000001	Bolton	Greater Manchester	North West	ENG	130.8	63.7	96.4	462	235	697	154	78	232	294	47
E08000010	Wigan	Greater Manchester	North West	ENG	124.4	58.7	91.2	561	272	833	187	91	278	278	97
E08000002	Bury	Greater Manchester	North West	ENG	115.8	57.8	85.9	280	148	428	93	49	143	259	110
E08000009	Trafford	Greater Manchester	North West	ENG	96.3	43.5	69.1	269	129	398	90	43	133	167	209
E08000007	Stockport	Greater Manchester	North West	ENG	95.5	43.3	68.9	369	176	545	123	59	182	166	154
E06000044	Portsmouth	Hampshire	South East	ENG	118.8	52.4	85.1	263	118	381	88	39	127	251	57
E07000088	Gosport	Hampshire	South East	ENG	122.6	48.9	84.9	141	60	201	47	20	67	250	130
E06000045	Southampton	Hampshire	South East	ENG	112.9	48.7	80.3	274	123	397	91	41	132	229	55
E07000092	Rushmoor	Hampshire	South East	ENG	97.5	56.1	76.8	104	59	163	35	20	54	212	196
E07000090	Havant	Hampshire	South East	ENG	85.0	38.1	60.6	154	74	228	51	25	76	114	133
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	83.8	34.4	58.6	187	80	267	62	27	89	104	246
E07000086	Eastleigh	Hampshire	South East	ENG	78.6	33.9	55.5	135	62	197	45	21	66	81	288
E07000093	Test Valley	Hampshire	South East	ENG	74.4	35.0	54.2	131	67	198	44	22	66	68	262
E07000087	Fareham	Hampshire	South East	ENG	63.7	36.9	50.0	109	69	178	36	23	59	41	298
E07000085	East Hampshire	Hampshire	South East	ENG	69.0	31.8	49.9	124	62	186	41	21	62	39	285
E07000094	Winchester	Hampshire	South East	ENG	71.2	26.0	48.0	119	46	165	40	15	55	24	293
E07000091	New Forest	Hampshire	South East	ENG	69.0	27.5	47.4	200	88	288	67	29	96	22	241
E07000089	Hart	Hampshire	South East	ENG	52.7	26.2	39.1	66	35	101	22	12	34	2	317
E06000019	Herefordshire	Herefordshire	West Midlands	ENG	90.6	42.2	65.7	266	132	398	89	44	133	150	137
E07000243	Stevenage	Hertfordshire	East of England	ENG	106.7	47.1	76.5	104	48	152	35	16	51	208	117
E07000103	Watford	Hertfordshire	East of England	ENG	106.5	45.6	75.2	101	46	147	34	15	49	199	195
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	95.4	36.6	65.2	120	48	168	40	16	56	146	215
E07000095	Broxbourne	Hertfordshire	East of England	ENG	94.4	32.6	62.1	108	41	149	36	14	50	125	153
E07000098	Hertsmere	Hertfordshire	East of England	ENG	88.6	35.1	60.4	110	48	158	37	16	53	112	224
E07000102	Three Rivers	Hertfordshire	East of England	ENG	80.3	34.6	56.8	92	42	134	31	14	45	94	291
E07000096	Dacorum	Hertfordshire	East of England	ENG	76.9	34.2	54.7	141	69	210	47	23	70	73	240
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	77.7	29.1	52.9	132	52	184	44	17	61	58	269
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	71.1	33.9	52.1	135	66	201	45	22	67	53	307
E07000240	St Albans	Hertfordshire	East of England	ENG	73.3	26.6	49.0	124	49	173	41	16	58	31	306
E06000046	Isle of Wight	Isle of Wight	South East	ENG	105.7	41.9	72.8	250	105	355	83	35	118	185	80

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom latest 3 years available

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					UNDER 75												
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths, latest 3 years available			Average number of annual CVD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
E07000114	Thanet	Kent	South East	ENG	122.5	44.0	81.6	254	99	353	85	33	118	236	34		
E07000107	Dartford	Kent	South East	ENG	101.3	47.6	73.6	115	56	171	38	19	57	189	145		
E07000113	Swale	Kent	South East	ENG	91.5	53.5	72.1	182	110	292	61	37	97	180	69		
E07000109	Gravesham	Kent	South East	ENG	101.9	42.4	71.7	131	56	187	44	19	62	177	119		
E06000035	Medway	Kent	South East	ENG	92.6	45.7	68.6	305	159	464	102	53	155	165	98		
E07000108	Dover	Kent	South East	ENG	89.7	41.5	65.1	161	76	237	54	25	79	145	107		
E07000116	Tunbridge Wells	Kent	South East	ENG	86.6	40.9	63.1	131	65	196	44	22	65	134	273		
E07000106	Canterbury	Kent	South East	ENG	98.3	30.8	63.0	198	71	269	66	24	90	132	185		
E07000112	Folkestone & Hythe	Kent	South East	ENG	89.6	34.1	61.3	154	64	218	51	21	73	117	84		
E07000105	Ashford	Kent	South East	ENG	82.8	37.4	59.4	140	68	208	47	23	69	108	152		
E07000115	Tonbridge and Malling	Kent	South East	ENG	87.3	31.4	58.4	145	56	201	48	19	67	102	236		
E07000111	Sevenoaks	Kent	South East	ENG	80.4	35.0	56.8	133	63	196	44	21	65	94	253		
E07000110	Maidstone	Kent	South East	ENG	81.1	31.7	55.8	178	73	251	59	24	84	84	188		
E06000009	Blackpool	Lancashire	North West	ENG	169.4	76.5	122.7	331	152	483	110	51	161	316	1		
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	139.9	66.3	102.9	235	110	345	78	37	115	304	14		
E07000117	Burnley	Lancashire	North West	ENG	136.2	64.5	99.8	156	78	234	52	26	78	300	11		
E07000120	Hyndburn	Lancashire	North West	ENG	130.1	66.6	97.7	136	72	208	45	24	69	297	18		
E07000123	Preston	Lancashire	North West	ENG	136.6	50.3	93.3	210	77	287	70	26	96	284	46		
E07000122	Pendle	Lancashire	North West	ENG	125.1	59.6	92.0	150	73	223	50	24	74	281	36		
E07000128	Wyre	Lancashire	North West	ENG	119.8	54.1	86.0	216	101	317	72	34	106	260	147		
E07000125	Rossendale	Lancashire	North West	ENG	103.4	55.2	79.0	101	55	156	34	18	52	224	91		
E07000121	Lancaster	Lancashire	North West	ENG	107.9	49.8	77.9	199	97	296	66	32	99	219	112		
E07000124	Ribble Valley	Lancashire	North West	ENG	110.1	43.3	76.1	102	41	143	34	14	48	205	282		
E07000118	Chorley	Lancashire	North West	ENG	102.0	47.4	74.7	170	80	250	57	27	83	198	192		
E07000127	West Lancashire	Lancashire	North West	ENG	98.9	51.8	74.3	158	90	248	53	30	83	194	178		
E07000119	Fylde	Lancashire	North West	ENG	94.6	45.3	69.5	122	65	187	41	22	62	169	198		
E07000126	South Ribble	Lancashire	North West	ENG	86.9	48.2	67.1	136	81	217	45	27	72	155	210		
E06000016	Leicester	Leicestershire	East Midlands	ENG	152.7	62.6	107.1	503	207	710	168	69	237	311	22		
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	86.2	50.6	68.4	128	76	204	43	25	68	164	216		
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	98.2	40.8	68.0	72	33	105	24	11	35	162	249		
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	95.6	39.9	67.3	159	69	228	53	23	76	156	232		
E07000130	Charnwood	Leicestershire	East Midlands	ENG	89.1	38.1	63.0	200	89	289	67	30	96	132	244		
E07000133	Melton	Leicestershire	East Midlands	ENG	81.7	38.3	59.7	65	31	96	22	10	32	109	248		
E07000131	Harborough	Leicestershire	East Midlands	ENG	71.3	30.5	50.7	98	43	141	33	14	47	44	308		
E07000129	Blaby	Leicestershire	East Midlands	ENG	71.2	29.8	50.0	97	43	140	32	14	47	41	281		
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	133.5	69.5	100.8	142	76	218	47	25	73	302	68		
E07000136	Boston	Lincolnshire	East Midlands	ENG	138.0	55.0	95.8	131	55	186	44	18	62	292	85		
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	117.9	67.6	92.0	304	184	488	101	61	163	281	30		
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	130.0	48.1	88.2	281	108	389	94	36	130	269	66		
E07000140	South Holland	Lincolnshire	East Midlands	ENG	123.4	48.6	85.5	175	72	247	58	24	82	253	144		
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	95.2	49.8	72.3	235	127	362	78	42	121	182	120		
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	102.2	40.1	70.4	156	65	221	52	22	74	172	146		
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	85.0	40.9	62.3	146	77	223	49	26	74	126	268		
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	80.9	31.9	55.5	172	73	245	57	24	82	81	234		
E08000012	Liverpool	Merseyside	North West	ENG	146.1	68.1	106.1	768	372	1,140	256	124	380	310	4		
E08000011	Knowsley	Merseyside	North West	ENG	130.6	70.7	98.9	235	140	375	78	47	125	299	3		
E08000013	St. Helens	Merseyside	North West	ENG	114.5	58.4	85.8	286	153	439	95	51	146	256	40		
E08000014	Sefton	Merseyside	North West	ENG	105.8	50.9	76.9	413	216	629	138	72	210	214	89		
E08000015	Wirral	Merseyside	North West	ENG	103.7	50.9	76.2	465	248	713	155	83	238	206	77		
E07000145	Great Yarmouth	Norfolk	East of England	ENG	128.2	47.3	87.0	195	75	270	65	25	90	264	24		
E07000148	Norwich	Norfolk	East of England	ENG	119.7	55.2	86.5	169	82	251	56	27	84	263	61		

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom latest 3 years available

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					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	94.7	53.0	73.0	225	135	360	75	45	120	186	79		
E07000143	Breckland	Norfolk	East of England	ENG	80.9	34.7	57.3	172	78	250	57	26	83	97	127		
E07000144	Broadland	Norfolk	East of England	ENG	85.5	29.3	56.4	174	64	238	58	21	79	89	257		
E07000147	North Norfolk	Norfolk	East of England	ENG	77.3	33.8	55.0	152	72	224	51	24	75	77	94		
E07000149	South Norfolk	Norfolk	East of England	ENG	64.0	30.4	46.7	133	68	201	44	23	67	18	225		
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG	109.7	60.9	84.5	116	69	185	39	23	62	248	124		
E07000154	Northampton	Northamptonshire	East Midlands	ENG	117.2	51.4	83.4	296	136	432	99	45	144	246	105		
E07000150	Corby	Northamptonshire	East Midlands	ENG	100.4	66.4	83.0	80	55	135	27	18	45	241	70		
E07000153	Kettering	Northamptonshire	East Midlands	ENG	114.0	34.6	73.3	150	48	198	50	16	66	188	161		
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG	90.0	37.9	63.5	122	53	175	41	18	58	135	226		
E07000151	Daventry	Northamptonshire	East Midlands	ENG	81.9	33.0	57.5	103	43	146	34	14	49	98	243		
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG	74.9	25.3	49.7	102	36	138	34	12	46	37	312		
E06000057	Northumberland	Northumberland	North East	ENG	101.5	49.1	74.5	514	271	785	171	90	262	197	131		
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	144.5	66.0	105.2	424	193	617	141	64	206	308	10		
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	121.5	56.3	88.5	208	99	307	69	33	102	274	63		
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	100.9	61.2	80.9	174	109	283	58	36	94	232	108		
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	103.7	50.2	76.6	153	76	229	51	25	76	209	56		
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	91.3	44.7	67.4	143	75	218	48	25	73	159	223		
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	87.7	43.4	64.9	141	76	217	47	25	72	143	207		
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	81.8	42.7	61.9	146	78	224	49	26	75	122	148		
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	78.0	31.6	54.4	127	54	181	42	18	60	71	314		
E07000178	Oxford	Oxfordshire	South East	ENG	93.1	42.3	66.9	124	59	183	41	20	61	154	189		
E07000177	Cherwell	Oxfordshire	South East	ENG	74.3	34.3	54.0	140	66	206	47	22	69	64	220		
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	74.5	26.3	49.3	113	43	156	38	14	52	32	301		
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	61.9	31.6	46.4	110	58	168	37	19	56	16	305		
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	64.5	25.6	44.3	122	54	176	41	18	59	10	302		
E06000017	Rutland	Rutland	East Midlands	ENG	54.6	29.3	41.8	33	18	51	11	6	17	6	303		
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	122.7	55.6	88.3	270	128	398	90	43	133	270	99		
E06000051	Shropshire	Shropshire	West Midlands	ENG	83.8	40.4	61.5	417	206	623	139	69	208	120	165		
E06000024	North Somerset	Somerset	South West	ENG	93.4	33.6	62.6	293	114	407	98	38	136	128	221		
E07000188	Sedgemoor	Somerset	South West	ENG	90.9	30.7	60.3	168	60	228	56	20	76	111	121		
E07000246	Somerset West and Taunton	Somerset	South West	ENG	78.9	36.1	56.7	182	92	274	61	31	91	93	142		
E06000022	Bath and North East Somerset	Somerset	South West	ENG	83.5	30.7	56.1	192	77	269	64	26	90	87	274		
E07000189	South Somerset	Somerset	South West	ENG	75.9	34.4	54.7	202	95	297	67	32	99	73	163		
E07000187	Mendip	Somerset	South West	ENG	76.1	32.1	53.3	131	57	188	44	19	63	61	170		
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	136.4	56.9	96.4	432	182	614	144	61	205	294	15		
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	118.4	46.9	82.0	160	65	225	53	22	75	237	126		
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	117.6	41.1	78.8	206	75	281	69	25	94	223	150		
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	106.7	42.1	74.3	170	67	237	57	22	79	194	157		
E07000199	Tamworth	Staffordshire	West Midlands	ENG	95.1	50.6	72.4	98	55	153	33	18	51	183	125		
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	84.9	46.9	65.3	147	86	233	49	29	78	147	235		
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	88.6	40.1	64.0	142	66	208	47	22	69	139	204		
E07000194	Lichfield	Staffordshire	West Midlands	ENG	89.8	36.6	62.5	144	64	208	48	21	69	127	250		
E07000197	Stafford	Staffordshire	West Midlands	ENG	80.5	35.6	57.7	159	74	233	53	25	78	99	233		
E07000202	Ipswich	Suffolk	East of England	ENG	123.9	43.8	83.1	196	71	267	65	24	89	243	71		
E07000245	West Suffolk	Suffolk	East of England	ENG	79.8	45.2	61.9	188	114	302	63	38	101	122	176		
E07000244	East Suffolk	Suffolk	East of England	ENG	80.0	41.2	60.0	316	178	494	105	59	165	110	158		
E07000203	Mid Suffolk	Suffolk	East of England	ENG	63.4	34.3	48.7	104	57	161	35	19	54	29	229		
E07000200	Babergh	Suffolk	East of England	ENG	67.8	27.7	47.0	101	44	145	34	15	48	20	212		
E07000213	Spelthorne	Surrey	South East	ENG	80.9	38.6	59.3	101	51	152	34	17	51	106	201		
E07000212	Runnymede	Surrey	South East	ENG	79.6	29.2	54.1	80	30	110	27	10	37	67	256		

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N		
E07000211	Reigate and Banstead	Surrey	South East	ENG	75.8	29.9	52.1	136	57	193	45	19	64	53	276		
E07000215	Tandridge	Surrey	South East	ENG	78.4	25.8	51.1	93	33	126	31	11	42	48	258		
E07000207	Elmbridge	Surrey	South East	ENG	65.7	35.1	49.9	108	63	171	36	21	57	39	310		
E07000217	Woking	Surrey	South East	ENG	65.5	34.0	49.7	80	42	122	27	14	41	37	283		
E07000209	Guildford	Surrey	South East	ENG	62.4	32.0	47.0	106	56	162	35	19	54	20	296		
E07000208	Epsom and Ewell	Surrey	South East	ENG	78.1	18.5	46.9	74	20	94	25	7	31	19	299		
E07000214	Surrey Heath	Surrey	South East	ENG	65.8	26.2	45.6	77	32	109	26	11	36	12	309		
E07000216	Waverley	Surrey	South East	ENG	63.5	22.5	42.2	106	41	147	35	14	49	7	313		
E07000210	Mole Valley	Surrey	South East	ENG	59.7	21.3	40.0	77	29	106	26	10	35	3	294		
E08000037	Gateshead	Tyne & Wear	North East	ENG	125.3	57.0	90.1	328	159	487	109	53	162	276	54		
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	124.6	49.8	87.0	384	154	538	128	51	179	264	74		
E08000024	Sunderland	Tyne & Wear	North East	ENG	117.6	54.6	84.7	431	220	651	144	73	217	249	33		
E08000023	South Tyneside	Tyne & Wear	North East	ENG	118.8	50.3	83.3	242	111	353	81	37	118	245	26		
E08000022	North Tyneside	Tyne & Wear	North East	ENG	115.0	47.4	79.8	319	144	463	106	48	154	225	128		
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	128.3	48.9	88.3	124	49	173	41	16	58	270	155		
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	117.3	55.5	85.8	203	101	304	68	34	101	256	101		
E07000222	Warwick	Warwickshire	West Midlands	ENG	90.1	41.6	65.4	159	77	236	53	26	79	149	263		
E07000220	Rugby	Warwickshire	West Midlands	ENG	87.1	40.5	63.7	120	58	178	40	19	59	138	222		
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	83.8	28.9	55.6	169	62	231	56	21	77	83	259		
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	160.4	59.2	108.5	467	182	649	156	61	216	314	19		
E08000028	Sandwell	West Midlands	West Midlands	ENG	150.1	51.8	99.9	525	188	713	175	63	238	301	8		
E08000030	Walsall	West Midlands	West Midlands	ENG	130.6	64.4	96.8	434	227	661	145	76	220	296	31		
E08000025	Birmingham	West Midlands	West Midlands	ENG	132.9	60.3	95.5	1,409	671	2,080	470	224	693	291	6		
E08000026	Coventry	West Midlands	West Midlands	ENG	126.8	46.7	85.8	440	171	611	147	57	204	256	81		
E08000027	Dudley	West Midlands	West Midlands	ENG	103.0	50.6	76.3	440	227	667	147	76	222	207	104		
E08000029	Solihull	West Midlands	West Midlands	ENG	87.6	37.0	61.4	252	116	368	84	39	123	118	206		
E07000226	Crawley	West Sussex	South East	ENG	101.3	46.5	73.2	117	57	174	39	19	58	187	136		
E07000229	Worthing	West Sussex	South East	ENG	102.8	40.1	70.0	153	67	220	51	22	73	170	174		
E07000224	Arun	West Sussex	South East	ENG	100.4	35.8	66.3	245	101	346	82	34	115	151	149		
E07000225	Chichester	West Sussex	South East	ENG	76.7	37.8	56.4	141	80	221	47	27	74	89	213		
E07000223	Adur	West Sussex	South East	ENG	77.9	34.6	55.0	70	35	105	23	12	35	77	164		
E07000228	Mid Sussex	West Sussex	South East	ENG	74.7	24.0	48.4	149	52	201	50	17	67	27	311		
E07000227	Horsham	West Sussex	South East	ENG	64.0	25.9	44.3	130	56	186	43	19	62	10	290		
E06000030	Swindon	Wiltshire	South West	ENG	100.9	47.5	73.7	264	129	393	88	43	131	190	171		
E06000054	Wiltshire	Wiltshire	South West	ENG	78.3	36.1	56.6	544	264	808	181	88	269	92	231		
E07000237	Worcester	Worcestershire	West Midlands	ENG	123.9	46.6	84.4	149	59	208	50	20	69	247	159		
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	113.2	42.0	76.9	183	71	254	61	24	85	214	114		
E07000236	Redditch	Worcestershire	West Midlands	ENG	101.9	49.3	75.3	117	58	175	39	19	58	200	118		
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	80.7	32.3	56.1	115	48	163	38	16	54	87	271		
E07000238	Wychavon	Worcestershire	West Midlands	ENG	76.7	25.5	50.7	154	53	207	51	18	69	44	191		
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	48.8	33.7	41.3	66	46	112	22	15	37	5	187		
E06000010	Kingston upon Hull	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	150.7	65.2	107.6	445	194	639	148	65	213	313	9		
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	89.7	41.4	64.9	500	246	746	167	82	249	143	217		
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	163.9	76.3	118.6	265	131	396	88	44	132	315	16		
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	123.8	55.8	88.4	241	118	359	80	39	120	272	62		
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	118.3	46.6	81.2	208	91	299	69	30	100	233	75		
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	96.3	41.0	67.5	237	110	347	79	37	116	161	275		
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	89.5	38.6	63.6	115	51	166	38	17	55	136	252		
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	74.0	49.2	61.4	57	39	96	19	13	32	118	251		
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	81.2	38.0	59.0	191	96	287	64	32	96	105	278		
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	69.3	34.7	51.3	65	35	100	22	12	33	50	239		

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom latest 3 years available

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					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths, latest 3 years available			Average number of annual CVD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	66.4	35.8	50.9	65	36	101	22	12	34	47	180
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	63.3	36.8	49.6	97	59	156	32	20	52	34	255
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	114.9	61.4	87.8	385	212	597	128	71	199	268	38
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	116.3	55.1	85.3	418	205	623	139	68	208	252	50
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	116.6	51.0	83.2	478	217	695	159	72	232	244	41
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	108.5	58.4	82.7	686	391	1,077	229	130	359	239	93
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	146.8	65.6	105.0	841	397	1,238	280	132	413	306	21
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	132.5	52.5	91.9	374	152	526	125	51	175	279	76
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	117.6	57.1	87.0	546	272	818	182	91	273	264	64
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	120.9	54.1	86.3	1,022	491	1,513	341	164	504	262	92
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	109.9	57.0	83.0	600	323	923	200	108	308	241	87
N09000003	Belfast		Northern Ireland	NI	117.9	59.7	87.1	415	230	645	138	77	215	11	4
N09000005	Derry & Strabane		Northern Ireland	NI	108.1	54.6	80.7	187	99	286	62	33	95	10	1
N09000002	Armagh, Banbridge & Craigavon		Northern Ireland	NI	102.7	45.0	73.1	250	114	364	83	38	121	9	7
N09000009	Mid Ulster		Northern Ireland	NI	90.3	48.6	69.4	147	78	225	49	26	75	8	6
N09000004	Causeway Coast & Glens		Northern Ireland	NI	93.9	43.6	68.5	176	83	259	59	28	86	7	5
N09000008	Mid & East Antrim		Northern Ireland	NI	92.7	42.1	66.7	168	81	249	56	27	83	6	8
N09000010	Newry, Mourne & Down		Northern Ireland	NI	95.3	35.6	64.8	193	75	268	64	25	89	5	3
N09000006	Fermanagh & Omagh		Northern Ireland	NI	92.6	36.4	64.5	134	53	187	45	18	62	4	2
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	86.4	41.4	62.9	149	78	227	50	26	76	3	11
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	83.1	42.9	62.3	140	77	217	47	26	72	2	10
N09000011	North Down & Ards		Northern Ireland	NI	87.1	39.0	62.1	201	97	298	67	32	99	1	9
S12000049	Glasgow City		Scotland	SCO	190.7	89.7	138.0	1,213	612	1,825	404	204	608	32	4
S12000039	West Dunbartonshire		Scotland	SCO	153.8	81.3	115.7	183	106	289	61	35	96	31	1
S12000042	Dundee City		Scotland	SCO	158.7	71.2	112.8	271	135	406	90	45	135	30	7
S12000008	East Ayrshire		Scotland	SCO	140.8	83.9	111.1	243	154	397	81	51	132	29	6
S12000050	North Lanarkshire		Scotland	SCO	158.8	66.1	110.0	677	309	986	226	103	329	28	5
S12000018	Inverclyde		Scotland	SCO	153.5	63.8	106.5	169	79	248	56	26	83	27	3
S12000028	South Ayrshire		Scotland	SCO	148.5	60.9	102.5	260	116	376	87	39	125	26	13
S12000014	Falkirk		Scotland	SCO	142.0	65.3	102.4	304	148	452	101	49	151	25	16
S12000021	North Ayrshire		Scotland	SCO	143.9	65.3	102.4	288	144	432	96	48	144	24	2
S12000038	Renfrewshire		Scotland	SCO	140.2	63.9	100.1	326	163	489	109	54	163	23	12
S12000033	Aberdeen City		Scotland	SCO	130.0	68.5	98.7	335	182	517	112	61	172	22	26
S12000005	Clackmannanshire		Scotland	SCO	134.2	59.7	95.6	99	48	147	33	16	49	21	8
S12000029	South Lanarkshire		Scotland	SCO	132.8	61.2	95.6	580	286	866	193	95	289	20	11
S12000047	Fife		Scotland	SCO	124.6	61.8	92.0	647	344	991	216	115	330	19	14
S12000006	Dumfries & Galloway		Scotland	SCO	121.3	64.1	91.8	297	166	463	99	55	154	18	10
S12000040	West Lothian		Scotland	SCO	125.2	57.4	89.9	281	138	419	94	46	140	17	17
S12000013	Eilean Siar		Scotland	SCO	134.0	45.5	89.7	61	19	80	20	6	27	16	9
S12000023	Orkney Islands		Scotland	SCO	109.2	61.0	85.3	39	22	61	13	7	20	15	25
S12000035	Argyll & Bute		Scotland	SCO	115.4	52.8	83.4	166	82	248	55	27	83	14	15
S12000036	City of Edinburgh		Scotland	SCO	110.3	56.1	82.3	604	325	929	201	108	310	13	30
S12000019	Midlothian		Scotland	SCO	103.7	61.8	81.9	125	82	207	42	27	69	12	18
S12000027	Shetland Islands		Scotland	SCO	131.1	30.4	81.8	44	10	54	15	3	18	11	24
S12000020	Moray		Scotland	SCO	106.7	53.4	78.9	145	79	224	48	26	75	10	23
S12000017	Highland		Scotland	SCO	114.8	43.0	78.0	409	160	569	136	53	190	9	19
S12000034	Aberdeenshire		Scotland	SCO	108.6	46.2	77.1	399	172	571	133	57	190	8	29
S12000030	Stirling		Scotland	SCO	101.1	47.2	73.2	123	62	185	41	21	62	7	28
S12000010	East Lothian		Scotland	SCO	98.5	48.6	72.5	142	77	219	47	26	73	6	22
S12000048	Perth & Kinross		Scotland	SCO	95.9	46.5	70.5	214	112	326	71	37	109	5	27
S12000045	East Dunbartonshire		Scotland	SCO	98.1	42.3	68.6	148	72	220	49	24	73	4	31

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom latest 3 years available

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					UNDER 75										
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths, latest 3 years available			Average number of annual CVD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N
S12000041	Angus		Scotland	SCO	91.4	46.9	68.5	161	90	251	54	30	84	3	20
S12000011	East Renfrewshire		Scotland	SCO	84.7	40.9	61.5	103	56	159	34	19	53	2	32
S12000026	Scottish Borders		Scotland	SCO	84.1	37.4	60.2	158	73	231	53	24	77	1	21
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	113.5	55.2	83.5	207	108	315	69	36	105	10	14
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	133.7	57.8	94.8	192	90	282	64	30	94	16	9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	117.6	48.8	82.3	258	114	372	86	38	124	9	18
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	119.8	57.7	88.3	222	108	330	74	36	110	12	16
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	97.6	34.8	65.9	111	39	150	37	13	50	2	20
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	107.0	56.8	81.2	207	120	324	69	40	108	8	13
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	130.2	60.1	94.3	369	180	549	123	60	183	14	10
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	132.7	65.5	98.2	318	165	483	106	55	161	20	5
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	160.9	73.3	116.4	156	72	228	52	24	76	22	1
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	141.1	55.5	97.1	174	72	249	58	24	83	18	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	109.5	39.4	73.6	159	60	219	53	20	73	3	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	133.6	59.6	95.5	240	114	351	80	38	117	17	7
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	109.1	53.6	80.9	123	63	186	41	21	62	7	11
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	109.0	42.6	75.6	192	78	270	64	26	90	4	17
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	115.2	55.0	84.2	225	114	339	75	38	113	11	8
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	127.9	63.0	94.7	402	207	606	134	69	202	15	4
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	151.1	75.2	112.3	117	60	177	39	20	59	21	2
W06000023	Powys	Powys	Wales / Cymru	WAL	102.0	51.4	76.3	225	117	342	75	39	114	5	21
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	81.5	37.1	58.2	144	72	216	48	24	72	1	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	117.5	43.1	79.1	420	162	582	140	54	194	6	15
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	134.5	50.1	90.3	408	168	576	136	56	192	13	12
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	133.9	64.1	97.9	264	135	396	88	45	132	19	3

Notes: ICD-10 codes I00-I99 only. Data not accessible for wider analysis at time of publication. Directly age-standardised using the 2013 European Standard Population.

Figures for England, Scotland, and Northern Ireland are for the years 2016/18. For Wales the figures shown are for the years 2015/17

- indicates number of deaths considered too small to calculate rate.

Average IMD ranks for Scotland, Wales, and Northern Ireland calculated in line with methodology for used for England

Source:

England: Mortality rates from Public Health England Public Health Profiles

Wales: Mortality rates for 2016/18 not accessible at time of publication. Rates for 2015/17 taken from Health Maps Wales

Scotland: Mortality rates calculated in partnership with the General Register Office for Scotland.

Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.

England: Average IMD ranks taken from English Indices of Deprivation

Wales: Average IMD ranks calculated from Welsh Index of Multiple Deprivation

Scotland: Average IMD ranks calculated from Scottish Index of Multiple Deprivation

Northern Ireland: Average IMD ranks calculated from Northern Ireland Multiple Deprivation Measures

<https://fingertips.phe.org.uk/profile/mortality-profile>

<https://www.healthmapswales.wales.nhs.uk>

<https://www.gov.uk/government/statistics/english-indices-of-deprivation-2019>

<https://stats.wales.gov.wales/Catalogue/Community-Safety-and-Social-Inclusion/Welsh-Index-of-Multiple-Deprivation>

<https://www.gov.scot/collections/scottish-index-of-multiple-deprivation-2020/>

<https://www.nisra.gov.uk/statistics/deprivation>

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised CHD death rates per 100,000			Total number of CHD deaths 2016/18			Average number of annual CHD deaths for 2016/18					
					Men	Women	Total	Men	Women	Total	Men	Women	Total			
E06000032	Luton	Bedfordshire	East of England	ENG				302	137	439	101	46	146		52	
E06000055	Bedford	Bedfordshire	East of England	ENG				274	149	423	91	50	141		156	
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG				397	223	620	132	74	207		264	
E06000036	Bracknell Forest	Berkshire	South East	ENG				137	80	217	46	27	72		284	
E06000037	West Berkshire	Berkshire	South East	ENG				244	118	362	81	39	121		289	
E06000038	Reading	Berkshire	South East	ENG				184	125	309	61	42	103		141	
E06000039	Slough	Berkshire	South East	ENG				196	141	337	65	47	112		73	
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG				209	161	370	70	54	123		304	
E06000041	Wokingham	Berkshire	South East	ENG				227	124	351	76	41	117		316	
E06000023	Bristol	Bristol	South West	ENG				577	325	902	192	108	301		82	
E06000042	Milton Keynes	Buckinghamshire	South East	ENG				294	159	453	98	53	151		172	
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG				257	166	423	86	55	141		277	
E07000005	Chiltern	Buckinghamshire	South East	ENG				154	90	244	51	30	81		315	
E07000006	South Bucks	Buckinghamshire	South East	ENG				130	75	205	43	25	68		292	
E07000007	Wycombe	Buckinghamshire	South East	ENG				297	162	459	99	54	153		280	
E06000031	Peterborough	Cambridgeshire	East of England	ENG				329	205	534	110	68	178		53	
E07000008	Cambridge	Cambridgeshire	East of England	ENG				159	88	247	53	29	82		205	
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG				167	102	269	56	34	90		266	
E07000010	Fenland	Cambridgeshire	East of England	ENG				217	144	361	72	48	120		51	
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG				238	156	394	79	52	131		247	
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG				226	150	376	75	50	125		300	
E06000006	Halton	Cheshire	North West	ENG				245	163	408	82	54	136		39	
E06000007	Warrington	Cheshire	North West	ENG				428	247	675	143	82	225		175	
E06000049	Cheshire East	Cheshire	North West	ENG				795	460	1,255	265	153	418		228	
E06000050	Cheshire West and Chester	Cheshire	North West	ENG				631	381	1,012	210	127	337		183	
E06000052	Cornwall	Cornwall	South West	ENG				1,352	889	2,241	451	296	747		83	
E06000053	Isles of Scilly	Cornwall	South West	ENG				5	-	10	2	-	3		245	
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG				774	522	1,296	258	174	432		166	
E06000059	Dorset	Dorset	South West	ENG				928	563	1,491	309	188	497		197	
E06000001	Hartlepool	County Durham	North East	ENG				209	113	322	70	38	107		25	
E06000004	Stockton-on-Tees	County Durham	North East	ENG				366	233	599	122	78	200		113	
E06000005	Darlington	County Durham	North East	ENG				202	150	352	67	50	117		103	
E06000047	County Durham	County Durham	North East	ENG				1,123	687	1,810	374	229	603		65	
E07000026	Allerdale	Cumbria	North West	ENG				225	160	385	75	53	128		109	
E07000027	Barrow-in-Furness	Cumbria	North West	ENG				158	87	245	53	29	82		44	
E07000028	Carlisle	Cumbria	North West	ENG				305	186	491	102	62	164		115	
E07000029	Copeland	Cumbria	North West	ENG				198	116	314	66	39	105		78	
E07000030	Eden	Cumbria	North West	ENG				128	72	200	43	24	67		169	
E07000031	South Lakeland	Cumbria	North West	ENG				245	144	389	82	48	130		242	
E06000015	Derby	Derbyshire	East Midlands	ENG				453	311	764	151	104	255		90	
E07000032	Amber Valley	Derbyshire	East Midlands	ENG				248	156	404	83	52	135		167	
E07000033	Bolsover	Derbyshire	East Midlands	ENG				165	102	267	55	34	89		58	
E07000034	Chesterfield	Derbyshire	East Midlands	ENG				249	130	379	83	43	126		86	
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG				156	89	245	52	30	82		265	
E07000036	Erewash	Derbyshire	East Midlands	ENG				224	139	363	75	46	121		168	
E07000037	High Peak	Derbyshire	East Midlands	ENG				175	103	278	58	34	93		202	
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG				221	153	374	74	51	125		177	
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG				166	91	257	55	30	86		218	
E06000026	Plymouth	Devon	South West	ENG				487	319	806	162	106	269		72	
E06000027	Torbay	Devon	South West	ENG				353	213	566	118	71	189		48	

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2016/18			Average number of annual CHD deaths for 2016/18					
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
E07000040	East Devon	Devon	South West	ENG				362	238	600	121	79	200		238	
E07000041	Exeter	Devon	South West	ENG				203	114	317	68	38	106		193	
E07000042	Mid Devon	Devon	South West	ENG				173	93	266	58	31	89		162	
E07000043	North Devon	Devon	South West	ENG				215	153	368	72	51	123		123	
E07000044	South Hams	Devon	South West	ENG				208	98	306	69	33	102		219	
E07000045	Teignbridge	Devon	South West	ENG				309	182	491	103	61	164		186	
E07000046	Torridge	Devon	South West	ENG				179	110	289	60	37	96		67	
E07000047	West Devon	Devon	South West	ENG				138	87	225	46	29	75		139	
E06000043	Brighton and Hove	East Sussex	South East	ENG				378	206	584	126	69	195		140	
E07000061	Eastbourne	East Sussex	South East	ENG				210	155	365	70	52	122		106	
E07000062	Hastings	East Sussex	South East	ENG				199	108	307	66	36	102		13	
E07000063	Lewes	East Sussex	South East	ENG				161	129	290	54	43	97		194	
E07000064	Rother	East Sussex	South East	ENG				226	162	388	75	54	129		135	
E07000065	Wealden	East Sussex	South East	ENG				279	182	461	93	61	154		254	
E06000033	Southend-on-Sea	Essex	East of England	ENG				353	197	550	118	66	183		129	
E06000034	Thurrock	Essex	East of England	ENG				278	162	440	93	54	147		116	
E07000066	Basildon	Essex	East of England	ENG				316	212	528	105	71	176		111	
E07000067	Braintree	Essex	East of England	ENG				273	151	424	91	50	141		203	
E07000068	Brentwood	Essex	East of England	ENG				161	83	244	54	28	81		287	
E07000069	Castle Point	Essex	East of England	ENG				178	115	293	59	38	98		182	
E07000070	Chelmsford	Essex	East of England	ENG				259	175	434	86	58	145		260	
E07000071	Colchester	Essex	East of England	ENG				259	180	439	86	60	146		181	
E07000072	Epping Forest	Essex	East of England	ENG				200	151	351	67	50	117		200	
E07000073	Harlow	Essex	East of England	ENG				150	110	260	50	37	87		100	
E07000074	Maldon	Essex	East of England	ENG				130	83	213	43	28	71		211	
E07000075	Rochford	Essex	East of England	ENG				153	97	250	51	32	83		286	
E07000076	Tendring	Essex	East of England	ENG				420	260	680	140	87	227		32	
E07000077	Uttlesford	Essex	East of England	ENG				148	77	225	49	26	75		295	
E06000025	South Gloucestershire	Gloucestershire	South West	ENG				426	232	658	142	77	219		267	
E07000078	Cheltenham	Gloucestershire	South West	ENG				223	143	366	74	48	122		237	
E07000079	Cotswold	Gloucestershire	South West	ENG				177	102	279	59	34	93		272	
E07000080	Forest of Dean	Gloucestershire	South West	ENG				205	121	326	68	40	109		143	
E07000081	Gloucester	Gloucestershire	South West	ENG				289	175	464	96	58	155		138	
E07000082	Stroud	Gloucestershire	South West	ENG				257	155	412	86	52	137		279	
E07000083	Tewkesbury	Gloucestershire	South West	ENG				197	122	319	66	41	106		261	
E09000001	City of London	Greater London	London	ENG				17	-	19	6	-	6		208	
E09000002	Barking and Dagenham	Greater London	London	ENG				228	131	359	76	44	120		5	
E09000003	Barnet	Greater London	London	ENG				493	339	832	164	113	277		184	
E09000004	Bexley	Greater London	London	ENG				386	241	627	129	80	209		190	
E09000005	Brent	Greater London	London	ENG				429	228	657	143	76	219		49	
E09000006	Bromley	Greater London	London	ENG				471	293	764	157	98	255		230	
E09000007	Camden	Greater London	London	ENG				247	123	370	82	41	123		132	
E09000008	Croydon	Greater London	London	ENG				497	261	758	166	87	253		102	
E09000009	Ealing	Greater London	London	ENG				440	255	695	147	85	232		88	
E09000010	Enfield	Greater London	London	ENG				439	238	677	146	79	226		59	
E09000011	Greenwich	Greater London	London	ENG				295	186	481	98	62	160		60	
E09000012	Hackney	Greater London	London	ENG				251	137	388	84	46	129		7	
E09000013	Hammersmith and Fulham	Greater London	London	ENG				161	91	252	54	30	84		96	
E09000014	Haringey	Greater London	London	ENG				250	146	396	83	49	132		37	
E09000015	Harrow	Greater London	London	ENG				335	250	585	112	83	195		199	

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised CHD death rates per 100,000			Total number of CHD deaths 2016/18			Average number of annual CHD deaths for 2016/18					
					Men	Women	Total	Men	Women	Total	Men	Women	Total			
E09000016	Havering	Greater London	London	ENG				431	284	715	144	95	238		179	
E09000017	Hillingdon	Greater London	London	ENG				447	275	722	149	92	241		151	
E09000018	Hounslow	Greater London	London	ENG				376	215	591	125	72	197		95	
E09000019	Islington	Greater London	London	ENG				230	148	378	77	49	126		28	
E09000020	Kensington and Chelsea	Greater London	London	ENG				135	70	205	45	23	68		122	
E09000021	Kingston upon Thames	Greater London	London	ENG				217	149	366	72	50	122		270	
E09000022	Lambeth	Greater London	London	ENG				322	148	470	107	49	157		42	
E09000023	Lewisham	Greater London	London	ENG				307	172	479	102	57	160		35	
E09000024	Merton	Greater London	London	ENG				236	140	376	79	47	125		214	
E09000025	Newham	Greater London	London	ENG				317	173	490	106	58	163		12	
E09000026	Redbridge	Greater London	London	ENG				342	230	572	114	77	191		160	
E09000027	Richmond upon Thames	Greater London	London	ENG				249	134	383	83	45	128		297	
E09000028	Southwark	Greater London	London	ENG				257	144	401	86	48	134		43	
E09000029	Sutton	Greater London	London	ENG				263	168	431	88	56	144		227	
E09000030	Tower Hamlets	Greater London	London	ENG				257	131	388	86	44	129		27	
E09000031	Waltham Forest	Greater London	London	ENG				286	162	448	95	54	149		45	
E09000032	Wandsworth	Greater London	London	ENG				269	175	444	90	58	148		173	
E09000033	Westminster	Greater London	London	ENG				204	126	330	68	42	110		134	
E08000001	Bolton	Greater Manchester	North West	ENG				561	346	907	187	115	302		47	
E08000002	Bury	Greater Manchester	North West	ENG				407	294	701	136	98	234		110	
E08000003	Manchester	Greater Manchester	North West	ENG				889	587	1,476	296	196	492		2	
E08000004	Oldham	Greater Manchester	North West	ENG				542	323	865	181	108	288		29	
E08000005	Rochdale	Greater Manchester	North West	ENG				492	322	814	164	107	271		17	
E08000006	Salford	Greater Manchester	North West	ENG				449	273	722	150	91	241		20	
E08000007	Stockport	Greater Manchester	North West	ENG				598	431	1,029	199	144	343		154	
E08000008	Tameside	Greater Manchester	North West	ENG				522	370	892	174	123	297		23	
E08000009	Trafford	Greater Manchester	North West	ENG				429	282	711	143	94	237		209	
E08000010	Wigan	Greater Manchester	North West	ENG				677	392	1,069	226	131	356		97	
E06000044	Portsmouth	Hampshire	South East	ENG				303	207	510	101	69	170		57	
E06000045	Southampton	Hampshire	South East	ENG				391	240	631	130	80	210		55	
E07000084	Basingstoke and Deane	Hampshire	South East	ENG				259	154	413	86	51	138		246	
E07000085	East Hampshire	Hampshire	South East	ENG				184	113	297	61	38	99		285	
E07000086	Eastleigh	Hampshire	South East	ENG				223	146	369	74	49	123		288	
E07000087	Fareham	Hampshire	South East	ENG				211	123	334	70	41	111		298	
E07000088	Gosport	Hampshire	South East	ENG				158	97	255	53	32	85		130	
E07000089	Hart	Hampshire	South East	ENG				109	58	167	36	19	56		317	
E07000090	Havant	Hampshire	South East	ENG				250	144	394	83	48	131		133	
E07000091	New Forest	Hampshire	South East	ENG				417	258	675	139	86	225		241	
E07000092	Rushmoor	Hampshire	South East	ENG				129	68	197	43	23	66		196	
E07000093	Test Valley	Hampshire	South East	ENG				193	134	327	64	45	109		262	
E07000094	Winchester	Hampshire	South East	ENG				201	146	347	67	49	116		293	
E06000019	Herefordshire	Herefordshire	West Midlands	ENG				455	282	737	152	94	246		137	
E07000095	Broxbourne	Hertfordshire	East of England	ENG				169	110	279	56	37	93		153	
E07000096	Dacorum	Hertfordshire	East of England	ENG				206	146	352	69	49	117		240	
E07000098	Hertsmere	Hertfordshire	East of England	ENG				147	99	246	49	33	82		224	
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG				217	141	358	72	47	119		269	
E07000102	Three Rivers	Hertfordshire	East of England	ENG				137	93	230	46	31	77		291	
E07000103	Watford	Hertfordshire	East of England	ENG				128	76	204	43	25	68		195	
E07000240	St Albans	Hertfordshire	East of England	ENG				188	105	293	63	35	98		306	
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG				179	113	292	60	38	97		215	

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New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised CHD death rates per 100,000			Total number of CHD deaths 2016/18			Average number of annual CHD deaths for 2016/18					
					Men	Women	Total	Men	Women	Total	Men	Women	Total			
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG				212	135	347	71	45	116		307	
E07000243	Stevenage	Hertfordshire	East of England	ENG				151	79	230	50	26	77		117	
E07000244	East Suffolk	Suffolk	East of England	ENG				567	394	961	189	131	320		158	
E07000245	West Suffolk	Suffolk	East of England	ENG				312	203	515	104	68	172		176	
E07000246	Somerset West and Taunton	Somerset	South West	ENG				320	204	524	107	68	175		142	
E06000046	Isle of Wight	Isle of Wight	South East	ENG				369	235	604	123	78	201		80	
E06000035	Medway	Kent	South East	ENG				376	245	621	125	82	207		98	
E07000105	Ashford	Kent	South East	ENG				159	122	281	53	41	94		152	
E07000106	Canterbury	Kent	South East	ENG				277	193	470	92	64	157		185	
E07000107	Dartford	Kent	South East	ENG				136	96	232	45	32	77		145	
E07000108	Dover	Kent	South East	ENG				221	141	362	74	47	121		107	
E07000109	Gravesham	Kent	South East	ENG				186	103	289	62	34	96		119	
E07000110	Maidstone	Kent	South East	ENG				256	169	425	85	56	142		188	
E07000111	Sevenoaks	Kent	South East	ENG				187	89	276	62	30	92		253	
E07000112	Folkestone & Hythe	Kent	South East	ENG				226	151	377	75	50	126		84	
E07000113	Swale	Kent	South East	ENG				224	159	383	75	53	128		69	
E07000114	Thanet	Kent	South East	ENG				352	214	566	117	71	189		34	
E07000115	Tonbridge and Malling	Kent	South East	ENG				208	109	317	69	36	106		236	
E07000116	Tunbridge Wells	Kent	South East	ENG				161	96	257	54	32	86		273	
E06000008	Blackburn with Darwen	Lancashire	North West	ENG				308	198	506	103	66	169		14	
E06000009	Blackpool	Lancashire	North West	ENG				398	252	650	133	84	217		1	
E07000117	Burnley	Lancashire	North West	ENG				194	118	312	65	39	104		11	
E07000118	Chorley	Lancashire	North West	ENG				257	146	403	86	49	134		192	
E07000119	Fylde	Lancashire	North West	ENG				221	143	364	74	48	121		198	
E07000120	Hyndburn	Lancashire	North West	ENG				203	150	353	68	50	118		18	
E07000121	Lancaster	Lancashire	North West	ENG				293	195	488	98	65	163		112	
E07000122	Pendle	Lancashire	North West	ENG				224	129	353	75	43	118		36	
E07000123	Preston	Lancashire	North West	ENG				256	143	399	85	48	133		46	
E07000124	Ribble Valley	Lancashire	North West	ENG				151	102	253	50	34	84		282	
E07000125	Rossendale	Lancashire	North West	ENG				142	108	250	47	36	83		91	
E07000126	South Ribble	Lancashire	North West	ENG				215	124	339	72	41	113		210	
E07000127	West Lancashire	Lancashire	North West	ENG				240	170	410	80	57	137		178	
E07000128	Wyre	Lancashire	North West	ENG				322	207	529	107	69	176		147	
E06000016	Leicester	Leicestershire	East Midlands	ENG				611	317	928	204	106	309		22	
E07000129	Blaby	Leicestershire	East Midlands	ENG				183	113	296	61	38	99		281	
E07000130	Charnwood	Leicestershire	East Midlands	ENG				286	183	469	95	61	156		244	
E07000131	Harborough	Leicestershire	East Midlands	ENG				149	84	233	50	28	78		308	
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG				201	111	312	67	37	104		232	
E07000133	Melton	Leicestershire	East Midlands	ENG				95	46	141	32	15	47		248	
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG				175	116	291	58	39	97		216	
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG				118	79	197	39	26	66		249	
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				414	225	639	138	75	213		66	
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				380	207	587	127	69	196		120	
E07000136	Boston	Lincolnshire	East Midlands	ENG				181	108	289	60	36	96		85	
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG				452	260	712	151	87	237		30	
E07000138	Lincoln	Lincolnshire	East Midlands	ENG				169	128	297	56	43	99		68	
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG				268	146	414	89	49	138		268	
E07000140	South Holland	Lincolnshire	East Midlands	ENG				239	111	350	80	37	117		144	
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG				271	192	463	90	64	154		234	
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG				194	129	323	65	43	108		146	

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New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised CHD death rates per 100,000			Total number of CHD deaths 2016/18			Average number of annual CHD deaths for 2016/18					
					Men	Women	Total	Men	Women	Total	Men	Women	Total			
E08000011	Knowsley	Merseyside	North West	ENG				291	181	472	97	60	157		3	
E08000012	Liverpool	Merseyside	North West	ENG				864	442	1,306	288	147	435		4	
E08000013	St. Helens	Merseyside	North West	ENG				382	218	600	127	73	200		40	
E08000014	Sefton	Merseyside	North West	ENG				592	365	957	197	122	319		89	
E08000015	Wirral	Merseyside	North West	ENG				601	392	993	200	131	331		77	
E07000143	Breckland	Norfolk	East of England	ENG				321	181	502	107	60	167		127	
E07000144	Broadland	Norfolk	East of England	ENG				307	169	476	102	56	159		257	
E07000145	Great Yarmouth	Norfolk	East of England	ENG				277	132	409	92	44	136		24	
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG				357	241	598	119	80	199		79	
E07000147	North Norfolk	Norfolk	East of England	ENG				296	191	487	99	64	162		94	
E07000148	Norwich	Norfolk	East of England	ENG				233	154	387	78	51	129		61	
E07000149	South Norfolk	Norfolk	East of England	ENG				241	159	400	80	53	133		225	
E07000150	Corby	Northamptonshire	East Midlands	ENG				122	61	183	41	20	61		70	
E07000151	Daventry	Northamptonshire	East Midlands	ENG				124	81	205	41	27	68		243	
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG				184	97	281	61	32	94		226	
E07000153	Kettering	Northamptonshire	East Midlands	ENG				162	75	237	54	25	79		161	
E07000154	Northampton	Northamptonshire	East Midlands	ENG				335	202	537	112	67	179		105	
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG				135	84	219	45	28	73		312	
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG				119	84	203	40	28	68		124	
E06000057	Northumberland	Northumberland	North East	ENG				728	418	1,146	243	139	382		131	
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG				508	279	787	169	93	262		10	
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG				251	148	399	84	49	133		63	
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG				256	143	399	85	48	133		108	
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG				248	132	380	83	44	127		223	
E07000173	Gedling	Nottinghamshire	East Midlands	ENG				204	142	346	68	47	115		207	
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG				215	125	340	72	42	113		56	
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG				238	147	385	79	49	128		148	
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG				200	133	333	67	44	111		314	
E07000177	Cherwell	Oxfordshire	South East	ENG				194	130	324	65	43	108		220	
E07000178	Oxford	Oxfordshire	South East	ENG				144	95	239	48	32	80		189	
E07000179	South Oxfordshire	Oxfordshire	South East	ENG				216	112	328	72	37	109		302	
E07000180	Vale of White Horse	Oxfordshire	South East	ENG				180	124	304	60	41	101		305	
E07000181	West Oxfordshire	Oxfordshire	South East	ENG				189	103	292	63	34	97		301	
E06000017	Rutland	Rutland	East Midlands	ENG				70	56	126	23	19	42		303	
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG				289	167	456	96	56	152		99	
E06000051	Shropshire	Shropshire	West Midlands	ENG				667	418	1,085	222	139	362		165	
E06000022	Bath and North East Somerset	Somerset	South West	ENG				314	156	470	105	52	157		274	
E06000024	North Somerset	Somerset	South West	ENG				408	230	638	136	77	213		221	
E07000187	Mendip	Somerset	South West	ENG				213	123	336	71	41	112		170	
E07000188	Sedgemoor	Somerset	South West	ENG				261	146	407	87	49	136		121	
E07000189	South Somerset	Somerset	South West	ENG				332	161	493	111	54	164		163	
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG				543	327	870	181	109	290		15	
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG				229	156	385	76	52	128		126	
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG				224	146	370	75	49	123		157	
E07000194	Lichfield	Staffordshire	West Midlands	ENG				225	133	358	75	44	119		250	
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG				292	162	454	97	54	151		150	
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG				255	135	390	85	45	130		235	
E07000197	Stafford	Staffordshire	West Midlands	ENG				300	191	491	100	64	164		233	
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG				224	150	374	75	50	125		204	
E07000199	Tamworth	Staffordshire	West Midlands	ENG				139	76	215	46	25	72		125	

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2016/18			Average number of annual CHD deaths for 2016/18					
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
E07000200	Babergh	Suffolk	East of England	ENG				145	103	248	48	34	83		212	
E07000202	Ipswich	Suffolk	East of England	ENG				234	133	367	78	44	122		71	
E07000203	Mid Suffolk	Suffolk	East of England	ENG				170	113	283	57	38	94		229	
E07000207	Elmbridge	Surrey	South East	ENG				192	159	351	64	53	117		310	
E07000208	Epsom and Ewell	Surrey	South East	ENG				101	48	149	34	16	50		299	
E07000209	Guildford	Surrey	South East	ENG				191	116	307	64	39	102		296	
E07000210	Mole Valley	Surrey	South East	ENG				133	91	224	44	30	75		294	
E07000211	Reigate and Banstead	Surrey	South East	ENG				231	139	370	77	46	123		276	
E07000212	Runnymede	Surrey	South East	ENG				128	87	215	43	29	72		256	
E07000213	Spelthorne	Surrey	South East	ENG				161	109	270	54	36	90		201	
E07000214	Surrey Heath	Surrey	South East	ENG				129	72	201	43	24	67		309	
E07000215	Tandridge	Surrey	South East	ENG				125	74	199	42	25	66		258	
E07000216	Waverley	Surrey	South East	ENG				202	108	310	67	36	103		313	
E07000217	Woking	Surrey	South East	ENG				143	86	229	48	29	76		283	
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG				471	226	697	157	75	232		74	
E08000022	North Tyneside	Tyne & Wear	North East	ENG				423	278	701	141	93	234		128	
E08000023	South Tyneside	Tyne & Wear	North East	ENG				309	185	494	103	62	165		26	
E08000024	Sunderland	Tyne & Wear	North East	ENG				561	334	895	187	111	298		33	
E08000037	Gateshead	Tyne & Wear	North East	ENG				443	260	703	148	87	234		54	
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG				159	73	232	53	24	77		155	
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG				269	155	424	90	52	141		101	
E07000220	Rugby	Warwickshire	West Midlands	ENG				208	113	321	69	38	107		222	
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG				274	133	407	91	44	136		259	
E07000222	Warwick	Warwickshire	West Midlands	ENG				247	139	386	82	46	129		263	
E08000025	Birmingham	West Midlands	West Midlands	ENG				1,790	1,070	2,860	597	357	953		6	
E08000026	Coventry	West Midlands	West Midlands	ENG				589	354	943	196	118	314		81	
E08000027	Dudley	West Midlands	West Midlands	ENG				687	438	1,125	229	146	375		104	
E08000028	Sandwell	West Midlands	West Midlands	ENG				720	410	1,130	240	137	377		8	
E08000029	Solihull	West Midlands	West Midlands	ENG				438	228	666	146	76	222		206	
E08000030	Walsall	West Midlands	West Midlands	ENG				618	412	1,030	206	137	343		31	
E08000031	Wolverhampton	West Midlands	West Midlands	ENG				605	373	978	202	124	326		19	
E07000223	Adur	West Sussex	South East	ENG				125	85	210	42	28	70		164	
E07000224	Arun	West Sussex	South East	ENG				463	243	706	154	81	235		149	
E07000225	Chichester	West Sussex	South East	ENG				264	167	431	88	56	144		213	
E07000226	Crawley	West Sussex	South East	ENG				169	85	254	56	28	85		136	
E07000227	Horsham	West Sussex	South East	ENG				248	132	380	83	44	127		290	
E07000228	Mid Sussex	West Sussex	South East	ENG				217	125	342	72	42	114		311	
E07000229	Worthing	West Sussex	South East	ENG				250	173	423	83	58	141		174	
E06000030	Swindon	Wiltshire	South West	ENG				351	216	567	117	72	189		171	
E06000054	Wiltshire	Wiltshire	South West	ENG				911	557	1,468	304	186	489		231	
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG				160	97	257	53	32	86		271	
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG				169	92	261	56	31	87		187	
E07000236	Redditch	Worcestershire	West Midlands	ENG				118	58	176	39	19	59		118	
E07000237	Worcester	Worcestershire	West Midlands	ENG				183	84	267	61	28	89		159	
E07000238	Wychavon	Worcestershire	West Midlands	ENG				233	140	373	78	47	124		191	
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG				233	120	353	78	40	118		114	
E06000010	Kingston upon Hull	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				567	343	910	189	114	303		9	
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				824	468	1,292	275	156	431		217	
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG				338	213	551	113	71	184		16	
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG				334	200	534	111	67	178		62	

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2016/18			Average number of annual CHD deaths for 2016/18					
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				385	240	625	128	80	208		275	
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				105	92	197	35	31	66		239	
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				191	143	334	64	48	111		255	
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				318	171	489	106	57	163		278	
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				105	57	162	35	19	54		251	
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				152	88	240	51	29	80		180	
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				339	228	567	113	76	189		75	
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				169	113	282	56	38	94		252	
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				493	302	795	164	101	265		38	
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				663	403	1,066	221	134	355		41	
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				535	342	877	178	114	292		50	
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				1,094	676	1,770	365	225	590		93	
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				1,117	762	1,879	372	254	626		21	
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				458	271	729	153	90	243		76	
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				799	561	1,360	266	187	453		87	
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				1,520	952	2,472	507	317	824		92	
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				718	474	1,192	239	158	397		64	
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	132.4	55.3	88.7	197	115	312	66	38	104	1	10	
N09000002	Armagh, Banbridge & Craigavon		Northern Ireland	NI	187.8	71.8	121.6	390	202	592	130	67	197	11	7	
N09000003	Belfast		Northern Ireland	NI	159.3	72.7	109.5	533	359	892	178	120	297	9	4	
N09000004	Causeway Coast & Glens		Northern Ireland	NI	146.5	69.1	103.5	243	153	396	81	51	132	7	5	
N09000005	Derry & Strabane		Northern Ireland	NI	150.7	69.5	102.9	207	125	332	69	42	111	6	1	
N09000006	Fermanagh & Omagh		Northern Ireland	NI	149.3	64.5	101.4	186	107	293	62	36	98	5	2	
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	139.1	63.9	96.4	219	142	361	73	47	120	2	11	
N09000008	Mid & East Antrim		Northern Ireland	NI	138.7	65.6	97.1	226	152	378	75	51	126	3	8	
N09000009	Mid Ulster		Northern Ireland	NI	154.5	81.3	113.0	207	147	354	69	49	118	10	6	
N09000010	Newry, Mourne & Down		Northern Ireland	NI	146.7	69.0	103.9	268	164	432	89	55	144	8	3	
N09000011	North Down & Ards		Northern Ireland	NI	143.9	63.3	97.7	290	183	473	97	61	158	4	9	
S12000005	Clackmannanshire		Scotland	SCO	167.0	106.6	134.6	106	83	189	35	28	63	23	8	
S12000006	Dumfries & Galloway		Scotland	SCO	181.1	91.9	131.7	435	289	724	145	96	241	19	10	
S12000008	East Ayrshire		Scotland	SCO	223.9	127.4	170.5	347	256	603	116	85	201	32	6	
S12000010	East Lothian		Scotland	SCO	155.0	87.7	119.1	211	162	373	70	54	124	9	22	
S12000011	East Renfrewshire		Scotland	SCO	143.9	64.3	98.3	173	121	294	58	40	98	1	32	
S12000013	Eilean Siar		Scotland	SCO	230.3	83.7	143.6	94	53	147	31	18	49	27	9	
S12000014	Falkirk		Scotland	SCO	182.6	98.7	137.4	361	246	607	120	82	202	24	16	
S12000047	Fife		Scotland	SCO	180.9	90.4	130.5	862	574	1,436	287	191	479	17	14	
S12000017	Highland		Scotland	SCO	181.3	79.8	125.1	590	347	937	197	116	312	10	19	
S12000018	Inverclyde		Scotland	SCO	195.7	82.9	130.3	201	126	327	67	42	109	16	3	
S12000019	Midlothian		Scotland	SCO	176.6	92.7	127.8	182	129	311	61	43	104	12	18	
S12000020	Moray		Scotland	SCO	161.7	84.4	117.9	206	147	353	69	49	118	7	23	
S12000021	North Ayrshire		Scotland	SCO	223.2	96.3	150.4	408	241	649	136	80	216	29	2	
S12000023	Orkney Islands		Scotland	SCO	189.6	84.4	134.3	64	34	98	21	11	33	22	25	
S12000048	Perth & Kinross		Scotland	SCO	148.5	76.9	109.6	337	241	578	112	80	193	3	27	
S12000026	Scottish Borders		Scotland	SCO	172.1	76.2	116.6	283	174	457	94	58	152	5	21	
S12000027	Shetland Islands		Scotland	SCO	225.9	81.7	146.5	64	30	94	21	10	31	28	24	
S12000028	South Ayrshire		Scotland	SCO	183.6	87.6	130.2	325	213	538	108	71	179	15	13	
S12000029	South Lanarkshire		Scotland	SCO	190.2	91.7	133.8	725	490	1,215	242	163	405	21	11	
S12000030	Stirling		Scotland	SCO	151.9	82.5	113.7	173	129	302	58	43	101	4	28	
S12000033	Aberdeen City		Scotland	SCO	167.9	97.9	129.7	395	325	720	132	108	240	14	26	
S12000034	Aberdeenshire		Scotland	SCO	171.3	90.1	125.6	528	365	893	176	122	298	11	29	

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2016/18

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					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised CHD death rates per 100,000			Total number of CHD deaths 2016/18			Average number of annual CHD deaths for 2016/18					
					Men	Women	Total	Men	Women	Total	Men	Women	Total			
S12000035	Argyll & Bute		Scotland	SCO	179.4	93.7	130.7	233	171	404	78	57	135	18	15	
S12000036	City of Edinburgh		Scotland	SCO	169.3	79.6	117.6	859	598	1,457	286	199	486	6	30	
S12000038	Renfrewshire		Scotland	SCO	180.6	90.1	129.3	386	263	649	129	88	216	13	12	
S12000039	West Dunbartonshire		Scotland	SCO	215.2	111.0	155.9	225	160	385	75	53	128	31	1	
S12000040	West Lothian		Scotland	SCO	182.9	92.3	132.4	350	216	566	117	72	189	20	17	
S12000041	Angus		Scotland	SCO	166.1	85.2	118.5	270	206	476	90	69	159	8	20	
S12000042	Dundee City		Scotland	SCO	219.9	83.7	141.5	367	207	574	122	69	191	26	7	
S12000050	North Lanarkshire		Scotland	SCO	190.2	102.4	141.1	700	490	1,190	233	163	397	25	5	
S12000045	East Dunbartonshire		Scotland	SCO	142.1	73.9	103.5	217	159	376	72	53	125	2	31	
S12000049	Glasgow City		Scotland	SCO	226.4	104.5	155.7	1,268	849	2,117	423	283	706	30	4	
W06000003	Conwy	Clwyd	Wales / Cymru	WAL				297	215	512	99	72	171		14	
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL				293	163	456	98	54	152		9	
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL				348	158	506	116	53	169		18	
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL				313	187	500	104	62	167		16	
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL				166	106	272	55	35	91		20	
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL				317	196	513	106	65	171		13	
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL				541	325	866	180	108	289		10	
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL				415	262	677	138	87	226		5	
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL				198	133	331	66	44	110		1	
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL				230	143	373	77	48	124		6	
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL				230	130	360	77	43	120		22	
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL				315	215	530	105	72	177		7	
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL				176	126	302	59	42	101		11	
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL				271	159	430	90	53	143		17	
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				326	186	512	109	62	171		8	
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				474	297	771	158	99	257		4	
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				143	76	219	48	25	73		2	
W06000023	Powys	Powys	Wales / Cymru	WAL				348	227	575	116	76	192		21	
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL				235	124	359	78	41	120		19	
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL				576	286	862	192	95	287		15	
W06000011	Swansea / Abertawe	West Glamorgan / Goglewin Morgannwg	Wales / Cymru	WAL				576	318	894	192	106	298		12	
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Goglewin Morgannwg	Wales / Cymru	WAL				376	231	607	125	77	202		3	

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population.
Average IMD ranks for Scotland, Wales, and Northern Ireland calculated in line with methodology for used for England

Source: England: Mortality rates not accessible at time of publication. Number of deaths are taken from NOMIS Mortality Statistics
Wales: Mortality rates for 2016/18 not accessible at time of publication. Number of Deaths are taken from NOMIS Mortality Statistics
Scotland: Mortality rates calculated in partnership with the General Register Office for Scotland.
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.
England: Average IMD ranks taken from English Indices of Deprivation
Wales: Average IMD ranks calculated from Welsh Index of Multiple Deprivation
Scotland: Average IMD ranks calculated from Scottish Index of Multiple Deprivation
Northern Ireland: Average IMD ranks calculated from Northern Ireland Multiple Deprivation Measures

<https://www.nomisweb.co.uk/articles/983.aspx>
<https://www.nomisweb.co.uk/articles/983.aspx>

<https://www.gov.uk/government/statistics/english-indices-of-deprivation-2019>
<https://stats.wales.gov.wales/Catalogue/Community-Safety-and-Social-Inclusion/Welsh-Index-of-Multiple-Deprivation>
<https://www.gov.scot/collections/scottish-index-of-multiple-deprivation-2020/>
<https://www.nisra.gov.uk/statistics/deprivation>

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom latest 3 years available

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75										
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths latest 3 years available			Average number of annual CHD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1 = most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total		
E06000032	Luton	Bedfordshire	East of England	ENG	67.7	20.3	43.5	133	41	174	44	14	58	231	52
E06000055	Bedford	Bedfordshire	East of England	ENG	62.1	11.4	36.3	132	25	157	44	8	52	172	156
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	45.5	15.3	30.1	166	58	224	55	19	75	100	264
E06000036	Bracknell Forest	Berkshire	South East	ENG	37.6	6.6	21.9	55	3	64	18	1	21	16	284
E06000037	West Berkshire	Berkshire	South East	ENG	46.3	10.3	27.9	100	21	123	33	7	41	76	289
E06000038	Reading	Berkshire	South East	ENG	60.0	17.9	38.8	87	22	119	29	7	40	199	141
E06000039	Slough	Berkshire	South East	ENG	90.6	34.3	62.0	111	39	158	37	13	53	309	73
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	40.0	12.7	26.1	75	25	100	25	8	33	48	304
E06000041	Wokingham	Berkshire	South East	ENG	40.2	10.3	24.9	83	19	106	28	6	35	36	316
E06000023	Bristol	Bristol	South West	ENG	62.9	17.7	39.9	267	77	344	89	26	115	206	82
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	52.9	15.7	33.8	156	46	202	52	15	67	142	172
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG	40.6	10.9	25.4	98	25	126	33	8	42	43	277
E07000005	Chiltern	Buckinghamshire	South East	ENG	43.6	7.8	25.2	54	14	69	18	5	23	39	315
E07000006	South Bucks	Buckinghamshire	South East	ENG	39.8	10.9	24.6	36	8	47	12	3	16	33	292
E07000007	Wycombe	Buckinghamshire	South East	ENG	47.7	10.0	28.3	104	22	127	35	7	42	83	280
E06000031	Peterborough	Cambridgeshire	East of England	ENG	73.3	22.8	47.5	156	50	206	52	17	69	260	53
E07000008	Cambridge	Cambridgeshire	East of England	ENG	51.0	12.9	31.5	60	10	73	20	3	24	117	205
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	49.4	14.9	31.7	60	12	79	20	4	26	120	266
E07000010	Fenland	Cambridgeshire	East of England	ENG	56.3	24.2	40.1	86	35	123	29	12	41	209	51
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	39.5	6.3	22.7	99	13	115	33	4	38	24	247
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	31.5	12.0	21.6	67	25	93	22	8	31	14	300
E06000006	Halton	Cheshire	North West	ENG	66.8	28.5	47.2	112	52	166	37	17	55	257	39
E06000007	Warrington	Cheshire	North West	ENG	66.7	21.5	43.7	183	62	245	61	21	82	233	175
E06000049	Cheshire East	Cheshire	North West	ENG	57.5	15.5	36.0	324	93	417	108	31	139	167	228
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	54.5	16.1	34.8	264	82	346	88	27	115	153	183
E06000052	Cornwall	Cornwall	South West	ENG	54.7	16.8	35.1	488	165	653	163	55	218	157	83
E06000053	Isles of Scilly	Cornwall	South West	ENG	-	-	-	5	-	10	2	-	3	1	245
E06000001	Hartlepool	County Durham	North East	ENG	84.0	26.3	54.7	104	28	137	35	9	46	298	25
E06000004	Stockton-on-Tees	County Durham	North East	ENG	65.0	16.1	39.8	163	42	206	54	14	69	205	113
E06000005	Darlington	County Durham	North East	ENG	67.6	23.8	45.1	97	36	133	32	12	44	244	103
E06000047	County Durham	County Durham	North East	ENG	61.4	20.0	40.2	458	157	615	153	52	205	210	65
E07000026	Allerdale	Cumbria	North West	ENG	68.4	20.5	44.2	106	30	139	35	10	46	237	109
E07000027	Barrow-in-Furness	Cumbria	North West	ENG	76.4	26.9	51.3	77	21	103	26	7	34	284	44
E07000028	Carlisle	Cumbria	North West	ENG	83.7	23.6	53.1	129	38	167	43	13	56	291	115
E07000029	Copeland	Cumbria	North West	ENG	79.2	36.2	58.1	86	38	123	29	13	41	302	78
E07000030	Eden	Cumbria	North West	ENG	42.3	14.0	28.0	42	14	50	14	5	17	78	169
E07000031	South Lakeland	Cumbria	North West	ENG	47.8	12.6	29.9	86	26	110	29	9	37	97	242
E06000015	Derby	Derbyshire	East Midlands	ENG	66.8	18.3	41.8	189	55	244	63	18	81	218	90
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	52.7	16.3	34.3	102	32	135	34	11	45	148	167
E07000033	Bolsover	Derbyshire	East Midlands	ENG	65.4	23.0	44.1	71	22	101	24	7	34	235	58
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	73.4	14.6	43.4	111	23	134	37	8	45	230	86
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	41.1	11.5	26.1	50	16	68	17	5	23	49	265
E07000036	Erewash	Derbyshire	East Midlands	ENG	58.5	17.8	37.7	92	29	122	31	10	41	187	168
E07000037	High Peak	Derbyshire	East Midlands	ENG	47.7	17.8	32.7	66	31	93	22	10	31	132	202
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	49.8	14.3	31.6	79	22	104	26	7	35	119	177
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	55.0	14.2	34.4	79	11	97	26	4	32	150	218
E06000026	Plymouth	Devon	South West	ENG	64.4	23.1	43.2	207	79	286	69	26	95	229	72
E06000027	Torbay	Devon	South West	ENG	71.0	14.8	42.1	151	34	186	50	11	62	221	48
E07000040	East Devon	Devon	South West	ENG	37.0	9.0	22.4	89	25	115	30	8	38	20	238
E07000041	Exeter	Devon	South West	ENG	60.4	14.5	36.3	78	18	99	26	6	33	170	193
E07000042	Mid Devon	Devon	South West	ENG	50.3	11.6	30.7	59	16	77	20	5	26	109	162

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom latest 3 years available

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75										
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths latest 3 years available			Average number of annual CHD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1 = most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total		
E07000043	North Devon	Devon	South West	ENG	50.4	17.2	33.2	74	26	102	25	9	34	137	123
E07000044	South Hams	Devon	South West	ENG	49.8	7.4	27.7	74	13	87	25	4	29	73	219
E07000045	Teignbridge	Devon	South West	ENG	55.0	12.4	32.9	120	27	149	40	9	50	136	186
E07000046	Torridge	Devon	South West	ENG	62.2	16.6	38.6	72	19	93	24	6	31	198	67
E07000047	West Devon	Devon	South West	ENG	59.7	13.6	36.2	55	17	70	18	6	23	169	139
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	46.5	12.4	29.0	244	69	313	81	23	104	89	166
E06000059	Dorset	Dorset	South West	ENG	51.9	9.9	30.1	329	68	397	110	23	132	102	197
E06000043	Brighton and Hove	East Sussex	South East	ENG	58.9	13.1	36.0	176	40	216	59	13	72	166	140
E07000061	Eastbourne	East Sussex	South East	ENG	49.8	12.0	30.0	72	19	92	24	6	31	99	106
E07000062	Hastings	East Sussex	South East	ENG	81.9	22.7	51.4	105	29	135	35	10	45	285	13
E07000063	Lewes	East Sussex	South East	ENG	31.7	12.3	21.6	46	20	69	15	7	23	13	194
E07000064	Rother	East Sussex	South East	ENG	40.8	11.5	25.5	67	21	88	22	7	29	46	135
E07000065	Wealden	East Sussex	South East	ENG	39.6	8.3	23.2	100	26	124	33	9	41	26	254
E06000033	Southend-on-Sea	Essex	East of England	ENG	58.9	10.9	34.2	136	27	163	45	9	54	147	129
E06000034	Thurrock	Essex	East of England	ENG	63.9	24.9	44.3	119	47	165	40	16	55	240	116
E07000066	Basildon	Essex	East of England	ENG	59.5	18.0	37.8	131	43	174	44	14	58	188	111
E07000067	Braintree	Essex	East of England	ENG	48.7	15.1	31.3	102	32	136	34	11	45	114	203
E07000068	Brentwood	Essex	East of England	ENG	51.7	-	29.6	52	9	61	17	3	20	92	287
E07000069	Castle Point	Essex	East of England	ENG	50.7	11.9	30.4	70	21	89	23	7	30	106	182
E07000070	Chelmsford	Essex	East of England	ENG	43.8	12.8	27.6	99	33	130	33	11	43	72	260
E07000071	Colchester	Essex	East of England	ENG	41.6	12.3	26.4	93	30	123	31	10	41	55	181
E07000072	Epping Forest	Essex	East of England	ENG	47.7	11.3	28.8	81	19	102	27	6	34	86	200
E07000073	Harlow	Essex	East of England	ENG	79.3	23.5	49.7	71	25	94	24	8	31	275	100
E07000074	Maldon	Essex	East of England	ENG	44.7	22.0	33.3	49	21	76	16	7	25	138	211
E07000075	Rochford	Essex	East of England	ENG	33.5	11.1	21.8	42	14	60	14	5	20	15	286
E07000076	Tendring	Essex	East of England	ENG	61.0	16.9	37.9	147	49	196	49	16	65	190	32
E07000077	Uttlesford	Essex	East of England	ENG	47.5	11.3	29.2	56	11	72	19	4	24	91	295
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	45.1	13.6	28.9	160	51	211	53	17	70	88	267
E07000078	Cheltenham	Gloucestershire	South West	ENG	63.9	12.3	37.0	91	17	110	30	6	37	178	237
E07000079	Cotswold	Gloucestershire	South West	ENG	37.5	8.5	22.3	53	13	66	18	4	22	19	272
E07000080	Forest of Dean	Gloucestershire	South West	ENG	49.8	17.4	33.3	69	24	95	23	8	32	139	143
E07000081	Gloucester	Gloucestershire	South West	ENG	80.7	24.5	51.8	123	38	163	41	13	54	288	138
E07000082	Stroud	Gloucestershire	South West	ENG	43.3	11.8	27.0	78	21	100	26	7	33	67	279
E07000083	Tewkesbury	Gloucestershire	South West	ENG	48.9	12.8	30.3	63	17	81	21	6	27	103	261
E09000001	City of London	Greater London	London	ENG	-	-	-	12	-	14	4	-	5	1	208
E09000002	Barking and Dagenham	Greater London	London	ENG	78.0	23.7	49.8	128	38	168	43	13	56	276	5
E09000003	Barnet	Greater London	London	ENG	48.4	15.0	30.9	189	63	252	63	21	84	111	184
E09000004	Bexley	Greater London	London	ENG	51.1	14.1	31.8	139	42	181	46	14	60	121	190
E09000005	Brent	Greater London	London	ENG	63.1	19.9	40.9	201	63	264	67	21	88	213	49
E09000006	Bromley	Greater London	London	ENG	42.6	9.5	25.1	162	40	202	54	13	67	38	230
E09000007	Camden	Greater London	London	ENG	51.3	18.8	34.5	115	42	160	38	14	53	152	132
E09000008	Croydon	Greater London	London	ENG	55.0	14.5	33.7	214	62	276	71	21	92	141	102
E09000009	Ealing	Greater London	London	ENG	62.9	23.5	42.5	210	79	291	70	26	97	225	88
E09000010	Enfield	Greater London	London	ENG	60.2	15.5	36.7	193	53	249	64	18	83	176	59
E09000011	Greenwich	Greater London	London	ENG	62.5	22.5	42.1	157	56	216	52	19	72	222	60
E09000012	Hackney	Greater London	London	ENG	85.6	24.0	53.1	151	44	199	50	15	66	292	7
E09000013	Hammersmith and Fulham	Greater London	London	ENG	49.0	14.7	30.4	76	24	99	25	8	33	105	96
E09000014	Haringey	Greater London	London	ENG	56.6	20.1	37.1	127	48	177	42	16	59	180	37
E09000015	Harrow	Greater London	London	ENG	45.7	15.1	29.8	125	44	169	42	15	56	96	199
E09000016	Havering	Greater London	London	ENG	61.2	15.6	37.2	182	51	233	61	17	78	181	179
E09000017	Hillingdon	Greater London	London	ENG	59.9	17.3	38.1	181	52	233	60	17	78	193	151

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom latest 3 years available

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75										
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths latest 3 years available			Average number of annual CHD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1 = most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total		
E09000018	Hounslow	Greater London	London	ENG	67.4	24.0	45.2	169	62	232	56	21	77	246	95
E09000019	Islington	Greater London	London	ENG	68.4	23.8	45.1	114	40	160	38	13	53	245	28
E09000020	Kensington and Chelsea	Greater London	London	ENG	33.3	5.2	18.2	59	16	67	20	5	22	5	122
E09000021	Kingston upon Thames	Greater London	London	ENG	44.1	11.7	27.4	77	19	96	26	6	32	71	270
E09000022	Lambeth	Greater London	London	ENG	74.5	21.2	46.5	167	47	214	56	16	71	254	42
E09000023	Lewisham	Greater London	London	ENG	67.9	22.9	44.2	156	56	212	52	19	71	238	35
E09000024	Merton	Greater London	London	ENG	52.5	14.3	32.2	99	31	129	33	10	43	125	214
E09000025	Newham	Greater London	London	ENG	76.3	29.8	52.0	183	74	259	61	25	86	289	12
E09000026	Redbridge	Greater London	London	ENG	54.7	17.6	35.6	158	51	209	53	17	70	164	160
E09000027	Richmond upon Thames	Greater London	London	ENG	40.4	11.6	25.5	89	26	116	30	9	39	45	297
E09000028	Southwark	Greater London	London	ENG	61.5	15.2	37.3	141	33	176	47	11	59	182	43
E09000029	Sutton	Greater London	London	ENG	44.5	10.3	26.8	101	22	125	34	7	42	61	227
E09000030	Tower Hamlets	Greater London	London	ENG	76.4	26.2	51.0	131	38	173	44	13	58	280	27
E09000031	Waltham Forest	Greater London	London	ENG	67.1	23.1	44.2	163	57	219	54	19	73	236	45
E09000032	Wandsworth	Greater London	London	ENG	59.9	21.2	39.3	137	51	190	46	17	63	202	173
E09000033	Westminster	Greater London	London	ENG	41.1	12.0	26.2	95	31	124	32	10	41	51	134
E08000001	Bolton	Greater Manchester	North West	ENG	81.6	27.6	54.1	288	101	389	96	34	130	295	47
E08000002	Bury	Greater Manchester	North West	ENG	74.1	30.6	51.6	179	78	257	60	26	86	286	110
E08000003	Manchester	Greater Manchester	North West	ENG	112.3	48.8	80.0	462	200	662	154	67	221	317	2
E08000004	Oldham	Greater Manchester	North West	ENG	103.3	32.4	66.4	276	94	370	92	31	123	313	29
E08000005	Rochdale	Greater Manchester	North West	ENG	98.9	38.8	68.1	260	106	366	87	35	122	314	17
E08000006	Salford	Greater Manchester	North West	ENG	80.5	26.0	53.2	219	70	289	73	23	96	293	20
E08000007	Stockport	Greater Manchester	North West	ENG	60.5	21.0	40.3	233	85	318	78	28	106	211	154
E08000008	Tameside	Greater Manchester	North West	ENG	90.1	29.1	59.3	263	86	349	88	29	116	305	23
E08000009	Trafford	Greater Manchester	North West	ENG	60.9	15.7	37.6	170	47	217	57	16	72	186	209
E08000010	Wigan	Greater Manchester	North West	ENG	67.7	20.8	44.0	306	96	402	102	32	134	234	97
E06000044	Portsmouth	Hampshire	South East	ENG	55.6	19.6	37.4	122	44	166	41	15	55	183	57
E06000045	Southampton	Hampshire	South East	ENG	74.3	23.3	48.5	180	58	238	60	19	79	269	55
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	53.1	13.5	32.9	119	29	150	40	10	50	134	246
E07000085	East Hampshire	Hampshire	South East	ENG	37.3	11.1	23.8	67	16	89	22	5	30	30	285
E07000086	Eastleigh	Hampshire	South East	ENG	51.4	14.2	32.2	88	27	114	29	9	38	124	288
E07000087	Fareham	Hampshire	South East	ENG	30.5	11.8	20.9	53	22	75	18	7	25	9	298
E07000088	Gosport	Hampshire	South East	ENG	70.0	15.5	42.1	79	17	100	26	6	33	220	130
E07000089	Hart	Hampshire	South East	ENG	27.1	-	16.1	29	13	41	10	4	14	3	317
E07000090	Havant	Hampshire	South East	ENG	48.4	12.7	29.8	88	26	114	29	9	38	95	133
E07000091	New Forest	Hampshire	South East	ENG	40.6	9.6	24.5	119	32	151	40	11	50	32	241
E07000092	Rushmoor	Hampshire	South East	ENG	61.1	18.3	39.6	69	20	82	23	7	27	204	196
E07000093	Test Valley	Hampshire	South East	ENG	38.9	14.5	26.4	69	26	97	23	9	32	56	262
E07000094	Winchester	Hampshire	South East	ENG	44.8	9.1	26.4	75	16	91	25	5	30	57	293
E06000019	Herefordshire	Herefordshire	West Midlands	ENG	57.6	17.5	37.0	169	55	224	56	18	75	179	137
E07000095	Broxbourne	Hertfordshire	East of England	ENG	54.7	12.7	32.8	62	10	78	21	3	26	133	153
E07000096	Dacorum	Hertfordshire	East of England	ENG	43.0	14.5	28.2	79	26	108	26	9	36	81	240
E07000098	Hertsmere	Hertfordshire	East of England	ENG	41.5	12.8	26.4	49	13	68	16	4	23	54	224
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	44.9	12.5	28.3	76	23	99	25	8	33	82	269
E07000102	Three Rivers	Hertfordshire	East of England	ENG	44.5	12.5	27.9	47	10	66	16	3	22	77	291
E07000103	Watford	Hertfordshire	East of England	ENG	59.8	17.9	38.1	52	18	73	17	6	24	192	195
E07000240	St Albans	Hertfordshire	East of England	ENG	40.0	6.8	22.7	69	13	79	23	4	26	23	306
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	59.3	17.6	37.9	75	19	98	25	6	33	191	215
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	41.9	14.9	28.1	78	26	108	26	9	36	79	307
E07000243	Stevenage	Hertfordshire	East of England	ENG	65.3	16.2	40.4	62	15	80	21	5	27	212	117
E06000046	Isle of Wight	Isle of Wight	South East	ENG	63.5	10.6	36.2	151	28	179	50	9	60	168	80

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom latest 3 years available

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LA CodeLA/DC/UACeremonial County (Eng/Wal)Region/Nation4N					UNDER 75										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths latest 3 years available			Average number of annual CHD deaths for latest 3 years available					
					Men	Women	Total	Men	Women	Total	Men	Women	Total			
E06000035	Medway	Kent	South East	ENG	47.6	17.9	32.4	156	61	217	52	20	72	127	98	
E07000105	Ashford	Kent	South East	ENG	39.7	14.8	26.9	68	27	95	23	9	32	63	152	
E07000106	Canterbury	Kent	South East	ENG	52.9	11.4	31.1	108	26	134	36	9	45	112	185	
E07000107	Dartford	Kent	South East	ENG	50.2	18.6	34.1	54	18	77	18	6	26	145	145	
E07000108	Dover	Kent	South East	ENG	44.3	12.8	28.2	80	20	103	27	7	34	80	107	
E07000109	Gravesham	Kent	South East	ENG	59.4	14.5	36.6	77	20	96	26	7	32	175	119	
E07000110	Maidstone	Kent	South East	ENG	45.3	10.9	27.7	100	25	125	33	8	42	74	188	
E07000111	Sevenoaks	Kent	South East	ENG	47.8	9.5	27.8	79	14	96	26	5	32	75	253	
E07000112	Folkestone & Hythe	Kent	South East	ENG	54.6	14.9	34.3	95	26	123	32	9	41	149	84	
E07000113	Swale	Kent	South East	ENG	46.1	20.3	32.9	91	39	134	30	13	45	135	69	
E07000114	Thanet	Kent	South East	ENG	69.1	16.9	41.8	144	38	182	48	13	61	217	34	
E07000115	Tonbridge and Malling	Kent	South East	ENG	44.4	10.7	26.9	74	17	93	25	6	31	62	236	
E07000116	Tunbridge Wells	Kent	South East	ENG	43.6	15.3	29.1	62	21	90	21	7	30	90	273	
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	94.2	34.9	64.4	158	58	216	53	19	72	312	14	
E06000009	Blackpool	Lancashire	North West	ENG	105.1	39.7	72.3	207	79	286	69	26	95	316	1	
E07000117	Burnley	Lancashire	North West	ENG	82.4	32.9	57.3	93	39	135	31	13	45	300	11	
E07000118	Chorley	Lancashire	North West	ENG	63.0	14.8	38.9	105	25	130	35	8	43	200	192	
E07000119	Fylde	Lancashire	North West	ENG	59.9	16.6	37.8	77	23	101	26	8	34	189	198	
E07000120	Hyndburn	Lancashire	North West	ENG	93.8	35.8	64.4	96	40	137	32	13	46	311	18	
E07000121	Lancaster	Lancashire	North West	ENG	68.1	19.1	42.8	125	37	162	42	12	54	226	112	
E07000122	Pendle	Lancashire	North West	ENG	84.0	34.8	59.1	101	42	144	34	14	48	304	36	
E07000123	Preston	Lancashire	North West	ENG	82.0	20.6	51.1	125	34	158	42	11	53	283	46	
E07000124	Ribble Valley	Lancashire	North West	ENG	73.7	23.9	48.4	63	22	91	21	7	30	268	282	
E07000125	Rossendale	Lancashire	North West	ENG	66.3	32.1	49.0	60	27	97	20	9	32	272	91	
E07000126	South Ribble	Lancashire	North West	ENG	49.0	20.5	34.4	76	34	112	25	11	37	151	210	
E07000127	West Lancashire	Lancashire	North West	ENG	59.7	20.9	39.4	93	37	132	31	12	44	203	178	
E07000128	Wyre	Lancashire	North West	ENG	71.3	25.5	47.8	126	48	177	42	16	59	264	147	
E06000016	Leicester	Leicestershire	East Midlands	ENG	99.4	24.0	61.2	322	78	400	107	26	133	307	22	
E07000129	Blaby	Leicestershire	East Midlands	ENG	41.1	14.0	27.2	54	18	76	18	6	25	69	281	
E07000130	Charnwood	Leicestershire	East Midlands	ENG	49.1	16.8	32.5	110	39	149	37	13	50	130	244	
E07000131	Harborough	Leicestershire	East Midlands	ENG	39.2	9.5	24.3	55	14	67	18	5	22	31	308	
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	59.6	13.6	36.3	97	26	124	32	9	41	171	232	
E07000133	Melton	Leicestershire	East Midlands	ENG	45.6	14.8	30.1	31	13	50	10	4	17	101	248	
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	53.3	21.4	37.4	77	28	111	26	9	37	184	216	
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	64.0	18.4	40.0	44	11	61	15	4	20	207	249	
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	83.5	19.9	51.1	181	45	226	60	15	75	282	66	
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	56.3	16.8	36.4	140	43	183	47	14	61	173	120	
E07000136	Boston	Lincolnshire	East Midlands	ENG	81.4	25.3	52.9	77	28	102	26	9	34	290	85	
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	74.8	26.8	50.1	196	73	269	65	24	90	277	30	
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	76.3	20.2	47.7	78	22	103	26	7	34	263	68	
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	54.4	16.9	35.1	93	30	125	31	10	42	156	268	
E07000140	South Holland	Lincolnshire	East Midlands	ENG	75.6	19.9	47.3	108	23	138	36	8	46	259	144	
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	49.8	12.5	30.5	106	28	135	35	9	45	107	234	
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	55.6	14.9	34.8	86	23	110	29	8	37	154	146	
E08000011	Knowsley	Merseyside	North West	ENG	77.9	31.5	53.3	140	62	202	47	21	67	294	3	
E08000012	Liverpool	Merseyside	North West	ENG	87.2	28.4	57.0	457	154	611	152	51	204	299	4	
E08000013	St. Helens	Merseyside	North West	ENG	73.5	23.5	47.9	186	62	246	62	21	82	266	40	
E08000014	Sefton	Merseyside	North West	ENG	63.8	21.0	41.3	252	91	343	84	30	114	215	89	
E08000015	Wirral	Merseyside	North West	ENG	59.8	18.9	38.6	270	93	363	90	31	121	197	77	
E07000143	Breckland	Norfolk	East of England	ENG	46.0	12.4	28.8	99	27	127	33	9	42	87	127	
E07000144	Broadland	Norfolk	East of England	ENG	53.5	11.6	31.8	108	29	134	36	10	45	122	257	

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					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths latest 3 years available			Average number of annual CHD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1 = most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total		
E07000145	Great Yarmouth	Norfolk	East of England	ENG	76.7	15.2	45.4	116	21	140	39	7	47	249	24
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	49.0	22.2	35.1	116	57	173	39	19	58	158	79
E07000147	North Norfolk	Norfolk	East of England	ENG	40.4	11.0	25.2	81	25	106	27	8	35	41	94
E07000148	Norwich	Norfolk	East of England	ENG	73.3	17.5	44.6	101	26	129	34	9	43	241	61
E07000149	South Norfolk	Norfolk	East of England	ENG	33.0	10.7	21.5	68	22	92	23	7	31	12	225
E07000150	Corby	Northamptonshire	East Midlands	ENG	68.5	27.6	47.3	51	20	75	17	7	25	258	70
E07000151	Daventry	Northamptonshire	East Midlands	ENG	45.7	16.9	31.3	52	21	80	17	7	27	115	243
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG	53.0	18.6	35.4	72	28	98	24	9	33	163	226
E07000153	Kettering	Northamptonshire	East Midlands	ENG	61.6	12.4	36.4	81	13	98	27	4	33	174	161
E07000154	Northampton	Northamptonshire	East Midlands	ENG	67.2	22.6	44.3	169	60	229	56	20	76	239	105
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG	44.1	10.5	27.0	58	14	75	19	5	25	64	312
E07000156	Wellingtonborough	Northamptonshire	East Midlands	ENG	59.5	21.9	40.1	60	28	88	20	9	29	208	124
E06000057	Northumberland	Northumberland	North East	ENG	64.6	20.7	41.9	330	113	443	110	38	148	219	131
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	90.0	25.1	57.6	263	72	335	88	24	112	301	10
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	72.4	23.7	47.7	123	43	166	41	14	55	262	63
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	62.4	25.2	43.6	109	46	155	36	15	52	232	108
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	55.4	15.5	34.9	87	24	113	29	8	38	155	223
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	49.1	15.0	31.5	77	24	105	26	8	35	116	207
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	60.5	17.1	38.5	90	24	116	30	8	39	196	56
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	46.4	15.7	30.7	83	29	112	28	10	37	110	148
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	43.0	11.1	26.7	70	18	89	23	6	30	59	314
E07000177	Cherwell	Oxfordshire	South East	ENG	41.7	13.0	27.1	77	26	104	26	9	35	68	220
E07000178	Oxford	Oxfordshire	South East	ENG	45.0	15.3	29.8	57	18	81	19	6	27	94	189
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	39.2	6.2	22.0	73	9	87	24	3	29	17	302
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	33.1	9.7	21.2	59	16	77	20	5	26	11	305
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	45.2	10.1	26.8	69	18	85	23	6	28	60	301
E06000017	Rutland	Rutland	East Midlands	ENG	33.4	-	22.4	18	4	28	6	1	9	21	303
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	72.8	19.4	45.5	159	47	206	53	16	69	250	99
E06000051	Shropshire	Shropshire	West Midlands	ENG	53.7	15.1	34.0	266	80	346	89	27	115	144	165
E06000022	Bath and North East Somerset	Somerset	South West	ENG	46.3	9.1	27.0	107	20	130	36	7	43	66	274
E06000024	North Somerset	Somerset	South West	ENG	52.6	12.6	32.0	165	43	208	55	14	69	123	221
E07000187	Mendip	Somerset	South West	ENG	43.5	9.8	26.1	75	17	93	25	6	31	50	170
E07000188	Sedgemoor	Somerset	South West	ENG	55.4	12.3	33.5	103	24	127	34	8	42	140	121
E07000189	South Somerset	Somerset	South West	ENG	41.1	9.6	25.0	109	24	136	36	8	45	37	163
E07000246	Somerset West and Taunton	Somerset	South West	ENG	42.5	11.8	26.6	99	31	129	33	10	43	58	142
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	79.2	24.5	51.7	250	78	328	83	26	109	287	15
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	73.9	25.9	49.5	100	34	136	33	11	45	273	126
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	62.9	15.6	39.2	100	22	125	33	7	42	201	157
E07000194	Lichfield	Staffordshire	West Midlands	ENG	52.7	11.2	31.6	84	18	104	28	6	35	118	250
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	82.3	20.8	51.1	144	36	182	48	12	61	281	150
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	57.5	17.3	37.0	99	30	132	33	10	44	177	235
E07000197	Stafford	Staffordshire	West Midlands	ENG	49.9	13.1	31.1	98	27	126	33	9	42	113	233
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	51.3	14.3	32.5	82	24	108	27	8	36	129	204
E07000199	Tamworth	Staffordshire	West Midlands	ENG	65.5	20.1	42.3	68	17	90	23	6	30	224	125
E07000200	Babergh	Suffolk	East of England	ENG	35.9	7.3	21.1	52	12	65	17	4	22	10	212
E07000202	Ipswich	Suffolk	East of England	ENG	66.7	17.2	41.4	104	31	132	35	10	44	216	71
E07000203	Mid Suffolk	Suffolk	East of England	ENG	31.4	16.0	23.6	50	26	79	17	9	26	29	229
E07000244	East Suffolk	Suffolk	East of England	ENG	46.3	15.4	30.3	185	67	252	62	22	84	104	158
E07000245	West Suffolk	Suffolk	East of England	ENG	46.3	15.9	30.6	110	38	149	37	13	50	108	176
E07000207	Elmbridge	Surrey	South East	ENG	37.6	16.0	26.3	61	31	89	20	10	30	53	310
E07000208	Epsom and Ewell	Surrey	South East	ENG	45.0	-	25.4	40	6	52	13	2	17	44	299

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					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths latest 3 years available			Average number of annual CHD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1 = most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total		
E07000209	Guildford	Surrey	South East	ENG	34.6	6.8	20.5	59	11	71	20	4	24	8	296
E07000210	Mole Valley	Surrey	South East	ENG	31.5	-	18.5	41	7	49	14	2	16	6	294
E07000211	Reigate and Banstead	Surrey	South East	ENG	38.4	9.0	23.3	68	16	86	23	5	29	28	276
E07000212	Runnymede	Surrey	South East	ENG	45.4	12.5	28.7	45	10	57	15	3	19	85	256
E07000213	Spelthorne	Surrey	South East	ENG	42.8	11.5	27.0	56	16	69	19	5	23	65	201
E07000214	Surrey Heath	Surrey	South East	ENG	35.6	11.4	23.3	39	14	56	13	5	19	27	309
E07000215	Tandridge	Surrey	South East	ENG	43.8	-	24.8	48	16	61	16	5	20	35	258
E07000216	Waverley	Surrey	South East	ENG	37.9	-	20.5	64	12	72	21	4	24	7	313
E07000217	Woking	Surrey	South East	ENG	40.9	16.2	28.6	50	20	69	17	7	23	84	283
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	71.0	19.2	44.9	219	59	278	73	20	93	243	74
E08000022	North Tyneside	Tyne & Wear	North East	ENG	74.0	20.4	46.1	207	62	269	69	21	90	253	128
E08000023	South Tyneside	Tyne & Wear	North East	ENG	72.1	20.2	45.2	147	45	192	49	15	64	247	26
E08000024	Sunderland	Tyne & Wear	North East	ENG	72.7	24.5	47.5	266	99	365	89	33	122	261	33
E08000037	Gateshead	Tyne & Wear	North East	ENG	70.4	27.5	48.3	185	77	262	62	26	87	267	54
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	74.7	15.7	44.8	67	17	88	22	6	29	242	155
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	70.7	23.9	46.8	123	43	166	41	14	55	255	101
E07000220	Rugby	Warwickshire	West Midlands	ENG	54.3	16.7	35.3	75	23	99	25	8	33	161	222
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	48.4	12.1	29.7	98	26	124	33	9	41	93	259
E07000222	Warwick	Warwickshire	West Midlands	ENG	53.6	15.5	34.2	94	29	123	31	10	41	146	263
E08000025	Birmingham	West Midlands	West Midlands	ENG	82.2	28.5	54.5	861	309	1,170	287	103	390	296	6
E08000026	Coventry	West Midlands	West Midlands	ENG	81.3	20.7	50.2	281	75	356	94	25	119	278	81
E08000027	Dudley	West Midlands	West Midlands	ENG	66.6	20.2	43.0	284	91	375	95	30	125	227	104
E08000028	Sandwell	West Midlands	West Midlands	ENG	102.2	26.0	63.3	354	93	447	118	31	149	310	8
E08000029	Solihull	West Midlands	West Midlands	ENG	54.4	12.4	32.7	156	38	195	52	13	65	131	206
E08000030	Walsall	West Midlands	West Midlands	ENG	77.6	32.5	54.6	258	114	372	86	38	124	297	31
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	99.1	24.7	60.8	287	75	362	96	25	121	306	19
E07000223	Adur	West Sussex	South East	ENG	40.1	11.8	25.2	34	9	48	11	3	16	40	164
E07000224	Arun	West Sussex	South East	ENG	60.5	13.7	35.8	150	39	189	50	13	63	165	149
E07000225	Chichester	West Sussex	South East	ENG	42.3	8.9	24.7	80	19	99	27	6	33	34	213
E07000226	Crawley	West Sussex	South East	ENG	67.8	19.4	43.0	77	22	101	26	7	34	228	136
E07000227	Horsham	West Sussex	South East	ENG	36.9	8.9	22.4	75	15	94	25	5	31	22	290
E07000228	Mid Sussex	West Sussex	South East	ENG	39.7	6.0	22.3	79	17	92	26	6	31	18	311
E07000229	Worthing	West Sussex	South East	ENG	68.7	10.7	38.3	102	17	120	34	6	40	194	174
E06000030	Swindon	Wiltshire	South West	ENG	60.2	17.5	38.5	157	47	204	52	16	68	195	171
E06000054	Wiltshire	Wiltshire	South West	ENG	40.9	12.6	26.3	285	93	378	95	31	126	52	231
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	41.0	-	23.2	56	10	67	19	3	22	25	271
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	31.1	-	17.3	41	1	47	14	0	16	4	187
E07000236	Redditch	Worcestershire	West Midlands	ENG	48.8	19.0	33.8	51	22	78	17	7	26	143	118
E07000237	Worcester	Worcestershire	West Midlands	ENG	71.8	13.5	42.2	86	17	104	29	6	35	223	159
E07000238	Wychavon	Worcestershire	West Midlands	ENG	42.4	9.6	25.8	87	20	107	29	7	36	47	191
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	57.6	18.3	37.5	93	34	123	31	11	41	185	114
E06000010	Kingston upon Hull	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	90.9	27.6	59.0	268	82	350	89	27	117	303	9
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	55.0	16.3	35.1	307	100	407	102	33	136	159	217
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	105.3	36.1	69.5	170	62	232	57	21	77	315	16
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	77.3	25.8	50.5	151	55	206	50	18	69	279	62
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	58.7	13.9	35.4	144	37	181	48	12	60	162	275
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	43.1	-	25.2	38	7	49	13	2	16	42	239
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	44.4	21.3	32.5	69	33	103	23	11	34	128	255
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	49.2	11.8	30.0	116	28	146	39	9	49	98	278
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	45.9	18.8	32.3	30	17	52	10	6	17	126	251
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	43.1	11.8	27.2	41	10	54	14	3	18	70	180

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					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths latest 3 years available			Average number of annual CHD deaths for latest 3 years available			ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1 = most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total		
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	79.4	16.6	46.9	141	33	174	47	11	58	256	75
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	55.2	16.0	35.3	71	21	92	24	7	31	160	252
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	68.3	24.3	46.0	230	84	314	77	28	105	252	38
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	73.6	25.2	48.9	302	108	410	101	36	137	271	41
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	67.2	24.1	45.3	241	89	330	80	30	110	248	50
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	67.6	25.6	46.0	425	170	595	142	57	198	251	93
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	92.3	32.0	61.3	527	193	720	176	64	240	308	21
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	76.8	23.1	49.6	218	67	285	73	22	95	274	76
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	60.1	22.7	41.1	328	128	456	109	43	152	214	87
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	75.6	22.0	47.8	633	198	831	211	66	277	265	92
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	71.7	26.3	48.7	332	126	458	111	42	153	270	64
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	47.2	12.3	29.1	80	22	102	27	7	34	1	10
N09000002	Armagh, Banbridge & Craigavon		Northern Ireland	NI	68.0	17.1	42.0	166	43	209	55	14	70	9	7
N09000003	Belfast		Northern Ireland	NI	73.1	25.0	47.7	257	96	353	86	32	118	11	4
N09000004	Causeway Coast & Glens		Northern Ireland	NI	54.2	19.4	36.7	102	37	139	34	12	46	7	5
N09000005	Derry & Strabane		Northern Ireland	NI	59.8	25.0	42.0	104	45	149	35	15	50	10	1
N09000006	Fermanagh & Omagh		Northern Ireland	NI	54.4	15.2	34.8	79	22	101	26	7	34	4	2
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	51.1	17.9	33.7	88	33	121	29	11	40	3	11
N09000008	Mid & East Antrim		Northern Ireland	NI	53.7	20.3	36.5	97	39	136	32	13	45	6	8
N09000009	Mid Ulster		Northern Ireland	NI	50.6	21.0	35.8	83	33	116	28	11	39	5	6
N09000010	Newry, Mourne & Down		Northern Ireland	NI	61.4	17.6	39.1	125	37	162	42	12	54	8	3
N09000011	North Down & Ards		Northern Ireland	NI	49.6	15.2	31.7	115	37	152	38	12	51	2	9
S12000005	Clackmannanshire		Scotland	SCO	74.5	25.0	48.8	55	20	75	18	7	25	14	8
S12000006	Dumfries & Galloway		Scotland	SCO	71.4	29.3	49.7	177	78	255	59	26	85	15	10
S12000008	East Ayrshire		Scotland	SCO	93.4	39.8	65.5	161	74	235	54	25	78	30	6
S12000010	East Lothian		Scotland	SCO	60.0	20.8	39.5	87	33	120	29	11	40	5	22
S12000011	East Renfrewshire		Scotland	SCO	52.4	13.7	31.8	64	19	83	21	6	28	1	32
S12000013	Eilean Siar		Scotland	SCO	83.8	15.9	50.0	39	7	46	13	2	15	16	9
S12000014	Falkirk		Scotland	SCO	90.9	27.6	58.2	195	63	258	65	21	86	26	16
S12000017	Highland		Scotland	SCO	73.6	16.2	44.2	263	61	324	88	20	108	10	19
S12000018	Inverclyde		Scotland	SCO	96.0	25.4	58.7	106	31	137	35	10	46	27	3
S12000019	Midlothian		Scotland	SCO	67.3	31.6	48.7	81	42	123	27	14	41	13	18
S12000020	Moray		Scotland	SCO	60.1	21.4	40.1	82	32	114	27	11	38	6	23
S12000021	North Ayrshire		Scotland	SCO	94.2	29.9	60.2	189	66	255	63	22	85	28	2
S12000023	Orkney Islands		Scotland	SCO	70.5	19.8	45.3	25	7	32	8	2	11	11	25
S12000026	Scottish Borders		Scotland	SCO	50.5	17.5	33.7	94	34	128	31	11	43	2	21
S12000027	Shetland Islands		Scotland	SCO	89.2	11.9	51.4	30	4	34	10	1	11	21	24
S12000028	South Ayrshire		Scotland	SCO	83.2	25.4	52.8	147	50	197	49	17	66	24	13
S12000029	South Lanarkshire		Scotland	SCO	78.0	26.5	51.2	341	125	466	114	42	155	20	11
S12000030	Stirling		Scotland	SCO	61.7	20.6	40.4	76	27	103	25	9	34	7	28
S12000033	Aberdeen City		Scotland	SCO	76.8	28.3	52.2	198	74	272	66	25	91	23	26
S12000034	Aberdeenshire		Scotland	SCO	57.1	21.4	39.1	211	80	291	70	27	97	4	29
S12000035	Argyll & Bute		Scotland	SCO	73.5	27.6	50.0	106	43	149	35	14	50	17	15
S12000036	City of Edinburgh		Scotland	SCO	69.3	24.8	46.3	380	143	523	127	48	174	12	30
S12000038	Renfrewshire		Scotland	SCO	81.8	22.3	50.5	192	57	249	64	19	83	19	12
S12000039	West Dunbartonshire		Scotland	SCO	107.8	38.7	71.5	128	50	178	43	17	59	31	1
S12000040	West Lothian		Scotland	SCO	78.5	27.7	52.2	178	66	244	59	22	81	22	17
S12000041	Angus		Scotland	SCO	58.4	26.4	41.9	102	51	153	34	17	51	9	20
S12000042	Dundee City		Scotland	SCO	103.7	27.8	63.9	177	53	230	59	18	77	29	7
S12000045	East Dunbartonshire		Scotland	SCO	54.6	22.7	37.7	82	39	121	27	13	40	3	31
S12000047	Fife		Scotland	SCO	74.7	27.5	50.2	389	153	542	130	51	181	18	14

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom latest 3 years available

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					UNDER 75										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised CHD death rates per 100,000			Total number of premature CHD deaths latest 3 years available			Average number of annual CHD deaths for latest 3 years available					
					Men	Women	Total	Men	Women	Total	Men	Women	Total			
S12000048	Perth & Kinross		Scotland	SCO	61.4	21.6	40.9	137	52	189	46	17	63	8	27	
S12000049	Glasgow City		Scotland	SCO	110.0	42.0	74.4	698	284	982	233	95	327	32	4	
S12000050	North Lanarkshire		Scotland	SCO	88.4	29.1	57.3	380	135	515	127	45	172	25	5	
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	63.6	23.0	42.9	70	17	91	23	6	30	7	11	
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	65.5	14.8	40.0	110	30	140	37	10	47	5	17	
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	75.4	21.2	47.5	122	38	158	41	13	53	12	14	
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	84.3	26.0	54.4	129	44	171	43	15	57	16	9	
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	74.0	17.4	44.9	163	32	196	54	11	65	9	18	
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	69.5	22.7	45.8	140	51	191	47	17	64	10	16	
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	62.6	16.5	39.2	61	9	76	20	3	25	4	20	
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	66.5	27.9	46.6	133	53	186	44	18	62	11	13	
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	86.1	28.9	56.8	243	94	337	81	31	112	18	10	
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgan	Wales / Cymru	WAL	83.5	20.0	50.2	233	78	311	78	26	104	14	12	
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgan	Wales / Cymru	WAL	88.5	30.4	58.6	173	68	241	58	23	80	20	3	
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	66.5	24.7	44.8	135	65	200	45	22	67	8	8	
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	42.7	13.4	27.3	82	21	104	27	7	35	1	19	
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	70.8	16.2	42.7	272	53	325	91	18	108	6	15	
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	70.1	27.8	48.4	220	76	296	73	25	99	13	4	
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	84.4	33.7	58.4	202	73	275	67	24	92	19	5	
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	95.1	39.7	67.0	83	35	120	28	12	40	22	1	
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	87.4	27.0	56.3	104	39	143	35	13	48	17	6	
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	66.9	12.6	39.1	83	18	107	28	6	36	3	22	
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	84.2	26.1	54.3	159	53	212	53	18	71	15	7	
W06000023	Powys	Powys	Wales / Cymru	WAL	57.3	20.4	38.6	124	46	170	41	15	57	2	21	
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	93.8	28.6	60.4	64	24	84	21	8	28	21	2	

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population.
All figures are for three years 2016/18 - except death rates for Wales which are 2015/17
For England and Wales, some data are suppressed at local level, which means there may be a significant margin of error
Average IMD ranks for Scotland, Wales, and Northern Ireland calculated in line with methodology for used for England

Source: England: Number of Deaths are taken from NOMIS Mortality Statistics. Mortality rates from Public Health England Public Health Profiles
Wales: Number of Deaths are taken from NOMIS Mortality Statistics. 2016/18 mortality rates not accessible at time of publication. Rates for 2015/17 taken from Health Maps Wales
Scotland: Mortality rates calculated in partnership with the General Register Office for Scotland.
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.
England: Average IMD ranks taken from English Indices of Deprivation
Wales: Average IMD ranks calculated from Welsh Index of Multiple Deprivation
Scotland: Average IMD ranks calculated from Scottish Index of Multiple Deprivation
Northern Ireland: Average IMD ranks calculated from Northern Ireland Multiple Deprivation Measures

NOMIS <https://www.nomisweb.co.uk/articles/983.aspx>
<https://fingertips.phe.org.uk/profile/mortality-profile>
<https://www.healthmapswales.wales.nhs.uk>
<https://www.gov.uk/government/statistics/english-indices-of-deprivation-2019>
<https://stats.wales.gov.wales/Catalogue/Community-Safety-and-Social-Inclusion/Welsh-Index-of-Multiple-Deprivation>
<https://www.gov.scot/collections/scottish-index-of-multiple-deprivation-2020/>
<https://www.nisra.gov.uk/statistics/deprivation>

Table 1.30 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2016/18

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					ALL AGES											
					Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E06000032	Luton	Bedfordshire	East of England	ENG				142	125	267	47	42	89		52	
E06000055	Bedford	Bedfordshire	East of England	ENG				131	136	267	44	45	89		156	
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG				159	199	358	53	66	119		264	
E06000036	Bracknell Forest	Berkshire	South East	ENG				47	63	110	16	21	37		284	
E06000037	West Berkshire	Berkshire	South East	ENG				90	118	208	30	39	69		289	
E06000038	Reading	Berkshire	South East	ENG				96	97	193	32	32	64		141	
E06000039	Slough	Berkshire	South East	ENG				65	81	146	22	27	49		73	
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG				105	153	258	35	51	86		304	
E06000041	Wokingham	Berkshire	South East	ENG				92	123	215	31	41	72		316	
E06000023	Bristol	Bristol	South East	ENG				229	312	541	76	104	180		82	
E06000042	Milton Keynes	Buckinghamshire	South East	ENG				147	168	315	49	56	105		172	
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG				108	141	249	36	47	83		277	
E07000005	Chiltern	Buckinghamshire	South East	ENG				58	74	132	19	25	44		315	
E07000006	South Bucks	Buckinghamshire	South East	ENG				42	90	132	14	30	44		292	
E07000007	Wycombe	Buckinghamshire	South East	ENG				99	116	215	33	39	72		280	
E06000031	Peterborough	Cambridgeshire	East of England	ENG				128	151	279	43	50	93		53	
E07000008	Cambridge	Cambridgeshire	East of England	ENG				64	94	158	21	31	53		205	
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG				54	84	138	18	28	46		266	
E07000010	Fenland	Cambridgeshire	East of England	ENG				83	110	193	28	37	64		51	
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG				135	151	286	45	50	95		247	
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG				104	141	245	35	47	82		300	
E06000006	Halton	Cheshire	North West	ENG				99	100	199	33	33	66		39	
E06000007	Warrington	Cheshire	North West	ENG				147	196	343	49	65	114		175	
E06000049	Cheshire East	Cheshire	North West	ENG				288	427	715	96	142	238		228	
E06000050	Cheshire West and Chester	Cheshire	North West	ENG				254	326	580	85	109	193		183	
E06000052	Cornwall	Cornwall	South West	ENG				621	934	1,555	207	311	518		83	
E06000053	Isles of Scilly	Cornwall	South West	ENG				-	-	-	-	-	-		245	
E06000001	Hartlepool	County Durham	North East	ENG				81	97	178	27	32	59		25	
E06000004	Stockton-on-Tees	County Durham	North East	ENG				138	191	329	46	64	110		113	
E06000005	Darlington	County Durham	North East	ENG				78	123	201	26	41	67		103	
E06000047	County Durham	County Durham	North East	ENG				461	640	1,101	154	213	367		65	
E07000026	Allerdale	Cumbria	North West	ENG				109	136	245	36	45	82		109	
E07000027	Barrow-in-Furness	Cumbria	North West	ENG				51	81	132	17	27	44		44	
E07000028	Carlisle	Cumbria	North West	ENG				96	147	243	32	49	81		115	
E07000029	Copeland	Cumbria	North West	ENG				56	65	121	19	22	40		78	
E07000030	Eden	Cumbria	North West	ENG				41	59	100	14	20	33		169	
E07000031	South Lakeland	Cumbria	North West	ENG				123	183	306	41	61	102		242	
E06000015	Derby	Derbyshire	East Midlands	ENG				178	252	430	59	84	143		90	
E07000032	Amber Valley	Derbyshire	East Midlands	ENG				95	126	221	32	42	74		167	
E07000033	Bolsover	Derbyshire	East Midlands	ENG				47	91	138	16	30	46		58	
E07000034	Chesterfield	Derbyshire	East Midlands	ENG				100	114	214	33	38	71		86	
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG				55	83	138	18	28	46		265	
E07000036	Erewash	Derbyshire	East Midlands	ENG				96	138	234	32	46	78		168	
E07000037	High Peak	Derbyshire	East Midlands	ENG				50	91	141	17	30	47		202	
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG				91	111	202	30	37	67		177	
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG				58	82	140	19	27	47		218	
E06000026	Plymouth	Devon	South West	ENG				167	260	427	56	87	142		72	
E06000027	Torbay	Devon	South West	ENG				139	227	366	46	76	122		48	
E07000040	East Devon	Devon	South West	ENG				167	288	455	56	96	152		238	
E07000041	Exeter	Devon	South West	ENG				95	112	207	32	37	69		193	

Table 1.30 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2016/18

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					ALL AGES											
					Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E07000042	Mid Devon	Devon	South West	ENG				83	113	196	28	38	65		162	
E07000043	North Devon	Devon	South West	ENG				142	193	335	47	64	112		123	
E07000044	South Hams	Devon	South West	ENG				80	102	182	27	34	61		219	
E07000045	Teignbridge	Devon	South West	ENG				137	205	342	46	68	114		186	
E07000046	Torridge	Devon	South West	ENG				85	154	239	28	51	80		67	
E07000047	West Devon	Devon	South West	ENG				49	78	127	16	26	42		139	
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG				342	490	832	114	163	277		166	
E06000059	Dorset	Dorset	South West	ENG				391	605	996	130	202	332		197	
E06000043	Brighton and Hove	East Sussex	South East	ENG				165	235	400	55	78	133		140	
E07000061	Eastbourne	East Sussex	South East	ENG				106	145	251	35	48	84		106	
E07000062	Hastings	East Sussex	South East	ENG				63	99	162	21	33	54		13	
E07000063	Lewes	East Sussex	South East	ENG				91	145	236	30	48	79		194	
E07000064	Rother	East Sussex	South East	ENG				93	147	240	31	49	80		135	
E07000065	Wealden	East Sussex	South East	ENG				133	225	358	44	75	119		254	
E06000033	Southend-on-Sea	Essex	East of England	ENG				118	164	282	39	55	94		129	
E06000034	Thurrock	Essex	East of England	ENG				95	120	215	32	40	72		116	
E07000066	Basildon	Essex	East of England	ENG				122	152	274	41	51	91		111	
E07000067	Braintree	Essex	East of England	ENG				103	148	251	34	49	84		203	
E07000068	Brentwood	Essex	East of England	ENG				56	75	131	19	25	44		287	
E07000069	Castle Point	Essex	East of England	ENG				86	98	184	29	33	61		182	
E07000070	Chelmsford	Essex	East of England	ENG				123	154	277	41	51	92		260	
E07000071	Colchester	Essex	East of England	ENG				97	149	246	32	50	82		181	
E07000072	Epping Forest	Essex	East of England	ENG				88	116	204	29	39	68		200	
E07000073	Harlow	Essex	East of England	ENG				51	68	119	17	23	40		100	
E07000074	Maldon	Essex	East of England	ENG				57	65	122	19	22	41		211	
E07000075	Rochford	Essex	East of England	ENG				50	65	115	17	22	38		286	
E07000076	Tendring	Essex	East of England	ENG				141	193	334	47	64	111		32	
E07000077	Uttlesford	Essex	East of England	ENG				63	68	131	21	23	44		295	
E06000025	South Gloucestershire	Gloucestershire	South West	ENG				163	213	376	54	71	125		267	
E07000078	Cheltenham	Gloucestershire	South West	ENG				82	149	231	27	50	77		237	
E07000079	Cotswold	Gloucestershire	South West	ENG				76	123	199	25	41	66		272	
E07000080	Forest of Dean	Gloucestershire	South West	ENG				72	121	193	24	40	64		143	
E07000081	Gloucester	Gloucestershire	South West	ENG				93	101	194	31	34	65		138	
E07000082	Stroud	Gloucestershire	South West	ENG				94	140	234	31	47	78		279	
E07000083	Tewkesbury	Gloucestershire	South West	ENG				91	112	203	30	37	68		261	
E09000001	City of London	Greater London	London	ENG				-	-	-	-	-	-		208	
E09000002	Barking and Dagenham	Greater London	London	ENG				84	101	185	28	34	62		5	
E09000003	Barnet	Greater London	London	ENG				173	209	382	58	70	127		184	
E09000004	Bexley	Greater London	London	ENG				137	216	353	46	72	118		190	
E09000005	Brent	Greater London	London	ENG				161	149	310	54	50	103		49	
E09000006	Bromley	Greater London	London	ENG				205	295	500	68	98	167		230	
E09000007	Camden	Greater London	London	ENG				77	87	164	26	29	55		132	
E09000008	Croydon	Greater London	London	ENG				214	250	464	71	83	155		102	
E09000009	Ealing	Greater London	London	ENG				173	191	364	58	64	121		88	
E09000010	Enfield	Greater London	London	ENG				141	184	325	47	61	108		59	
E09000011	Greenwich	Greater London	London	ENG				114	127	241	38	42	80		60	
E09000012	Hackney	Greater London	London	ENG				73	68	141	24	23	47		7	
E09000013	Hammersmith and Fulham	Greater London	London	ENG				70	62	132	23	21	44		96	
E09000014	Haringey	Greater London	London	ENG				99	84	183	33	28	61		37	
E09000015	Harrow	Greater London	London	ENG				125	146	271	42	49	90		199	

Table 1.30 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2016/18

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					ALL AGES											
					Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E09000016	Havering	Greater London	London	ENG				167	211	378	56	70	126		179	
E09000017	Hillingdon	Greater London	London	ENG				182	187	369	61	62	123		151	
E09000018	Hounslow	Greater London	London	ENG				141	158	299	47	53	100		95	
E09000019	Islington	Greater London	London	ENG				85	95	180	28	32	60		28	
E09000020	Kensington and Chelsea	Greater London	London	ENG				86	69	155	29	23	52		122	
E09000021	Kingston upon Thames	Greater London	London	ENG				90	75	165	30	25	55		270	
E09000022	Lambeth	Greater London	London	ENG				126	141	267	42	47	89		42	
E09000023	Lewisham	Greater London	London	ENG				148	140	288	49	47	96		35	
E09000024	Merton	Greater London	London	ENG				100	117	217	33	39	72		214	
E09000025	Newham	Greater London	London	ENG				116	115	231	39	38	77		12	
E09000026	Redbridge	Greater London	London	ENG				155	164	319	52	55	106		160	
E09000027	Richmond upon Thames	Greater London	London	ENG				94	113	207	31	38	69		297	
E09000028	Southwark	Greater London	London	ENG				116	117	233	39	39	78		43	
E09000029	Sutton	Greater London	London	ENG				94	161	255	31	54	85		227	
E09000030	Tower Hamlets	Greater London	London	ENG				86	100	186	29	33	62		27	
E09000031	Waltham Forest	Greater London	London	ENG				95	137	232	32	46	77		45	
E09000032	Wandsworth	Greater London	London	ENG				104	135	239	35	45	80		173	
E09000033	Westminster	Greater London	London	ENG				118	97	215	39	32	72		134	
E08000001	Bolton	Greater Manchester	North West	ENG				182	225	407	61	75	136		47	
E08000002	Bury	Greater Manchester	North West	ENG				116	170	286	39	57	95		110	
E08000003	Manchester	Greater Manchester	North West	ENG				244	311	555	81	104	185		2	
E08000004	Oldham	Greater Manchester	North West	ENG				164	199	363	55	66	121		29	
E08000005	Rochdale	Greater Manchester	North West	ENG				137	184	321	46	61	107		17	
E08000006	Salford	Greater Manchester	North West	ENG				147	191	338	49	64	113		20	
E08000007	Stockport	Greater Manchester	North West	ENG				223	303	526	74	101	175		154	
E08000008	Tameside	Greater Manchester	North West	ENG				201	208	409	67	69	136		23	
E08000009	Trafford	Greater Manchester	North West	ENG				172	229	401	57	76	134		209	
E08000010	Wigan	Greater Manchester	North West	ENG				226	331	557	75	110	186		97	
E06000044	Portsmouth	Hampshire	South East	ENG				128	193	321	43	64	107		57	
E06000045	Southampton	Hampshire	South East	ENG				109	177	286	36	59	95		55	
E07000084	Basingstoke and Deane	Hampshire	South East	ENG				80	138	218	27	46	73		246	
E07000085	East Hampshire	Hampshire	South East	ENG				79	160	239	26	53	80		285	
E07000086	Eastleigh	Hampshire	South East	ENG				64	107	171	21	36	57		288	
E07000087	Fareham	Hampshire	South East	ENG				92	133	225	31	44	75		298	
E07000088	Gosport	Hampshire	South East	ENG				72	81	153	24	27	51		130	
E07000089	Hart	Hampshire	South East	ENG				50	68	118	17	23	39		317	
E07000090	Havant	Hampshire	South East	ENG				108	145	253	36	48	84		133	
E07000091	New Forest	Hampshire	South East	ENG				210	297	507	70	99	169		241	
E07000092	Rushmoor	Hampshire	South East	ENG				55	81	136	18	27	45		196	
E07000093	Test Valley	Hampshire	South East	ENG				104	114	218	35	38	73		262	
E07000094	Winchester	Hampshire	South East	ENG				88	128	216	29	43	72		293	
E06000019	Herefordshire	Herefordshire	West Midlands	ENG				165	277	442	55	92	147		137	
E07000095	Broxbourne	Hertfordshire	East of England	ENG				46	82	128	15	27	43		153	
E07000096	Dacorum	Hertfordshire	East of England	ENG				101	108	209	34	36	70		240	
E07000098	Hertsmere	Hertfordshire	East of England	ENG				79	88	167	26	29	56		224	
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG				86	129	215	29	43	72		269	
E07000102	Three Rivers	Hertfordshire	East of England	ENG				64	99	163	21	33	54		291	
E07000103	Watford	Hertfordshire	East of England	ENG				59	70	129	20	23	43		195	
E07000240	St Albans	Hertfordshire	East of England	ENG				91	117	208	30	39	69		306	
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG				88	117	205	29	39	68		215	

Table 1.30 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2016/18

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					Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG				83	99	182	28	33	61		307	
E07000243	Stevenage	Hertfordshire	East of England	ENG				57	85	142	19	28	47		117	
E06000046	Isle of Wight	Isle of Wight	South East	ENG				122	154	276	41	51	92		80	
E06000035	Medway	Kent	South East	ENG				144	171	315	48	57	105		98	
E07000105	Ashford	Kent	South East	ENG				95	124	219	32	41	73		152	
E07000106	Canterbury	Kent	South East	ENG				163	216	379	54	72	126		185	
E07000107	Dartford	Kent	South East	ENG				83	99	182	28	33	61		145	
E07000108	Dover	Kent	South East	ENG				95	125	220	32	42	73		107	
E07000109	Gravesham	Kent	South East	ENG				77	79	156	26	26	52		119	
E07000110	Maidstone	Kent	South East	ENG				115	151	266	38	50	89		188	
E07000111	Sevenoaks	Kent	South East	ENG				84	136	220	28	45	73		253	
E07000112	Folkestone & Hythe	Kent	South East	ENG				83	133	216	28	44	72		84	
E07000113	Swale	Kent	South East	ENG				74	117	191	25	39	64		69	
E07000114	Thanet	Kent	South East	ENG				110	179	289	37	60	96		34	
E07000115	Tonbridge and Malling	Kent	South East	ENG				84	95	179	28	32	60		236	
E07000116	Tunbridge Wells	Kent	South East	ENG				98	130	228	33	43	76		273	
E06000008	Blackburn with Darwen	Lancashire	North West	ENG				94	99	193	31	33	64		14	
E06000009	Blackpool	Lancashire	North West	ENG				124	181	305	41	60	102		1	
E07000117	Burnley	Lancashire	North West	ENG				60	68	128	20	23	43		11	
E07000118	Chorley	Lancashire	North West	ENG				91	119	210	30	40	70		192	
E07000119	Fylde	Lancashire	North West	ENG				86	135	221	29	45	74		198	
E07000120	Hyndburn	Lancashire	North West	ENG				53	65	118	18	22	39		18	
E07000121	Lancaster	Lancashire	North West	ENG				120	151	271	40	50	90		112	
E07000122	Pendle	Lancashire	North West	ENG				68	82	150	23	27	50		36	
E07000123	Preston	Lancashire	North West	ENG				90	123	213	30	41	71		46	
E07000124	Ribble Valley	Lancashire	North West	ENG				53	68	121	18	23	40		282	
E07000125	Rossendale	Lancashire	North West	ENG				53	74	127	18	25	42		91	
E07000126	South Ribble	Lancashire	North West	ENG				85	106	191	28	35	64		210	
E07000127	West Lancashire	Lancashire	North West	ENG				102	124	226	34	41	75		178	
E07000128	Wyre	Lancashire	North West	ENG				115	144	259	38	48	86		147	
E06000016	Leicester	Leicestershire	East Midlands	ENG				178	246	424	59	82	141		22	
E07000129	Blaby	Leicestershire	East Midlands	ENG				72	60	132	24	20	44		281	
E07000130	Charnwood	Leicestershire	East Midlands	ENG				102	137	239	34	46	80		244	
E07000131	Harborough	Leicestershire	East Midlands	ENG				62	74	136	21	25	45		308	
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG				65	100	165	22	33	55		232	
E07000133	Melton	Leicestershire	East Midlands	ENG				36	56	92	12	19	31		248	
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG				53	91	144	18	30	48		216	
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG				44	53	97	15	18	32		249	
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				139	154	293	46	51	98		66	
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				123	173	296	41	58	99		120	
E07000136	Boston	Lincolnshire	East Midlands	ENG				48	72	120	16	24	40		85	
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG				165	174	339	55	58	113		30	
E07000138	Lincoln	Lincolnshire	East Midlands	ENG				75	93	168	25	31	56		68	
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG				87	112	199	29	37	66		268	
E07000140	South Holland	Lincolnshire	East Midlands	ENG				73	91	164	24	30	55		144	
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG				104	158	262	35	53	87		234	
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG				96	101	197	32	34	66		146	
E08000011	Knowsley	Merseyside	North West	ENG				113	132	245	38	44	82		3	
E08000012	Liverpool	Merseyside	North West	ENG				336	363	699	112	121	233		4	
E08000013	St. Helens	Merseyside	North West	ENG				109	177	286	36	59	95		40	

Table 1.30 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2016/18

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E08000014	Sefton	Merseyside	North West	ENG				217	312	529	72	104	176		89	
E08000015	Wirral	Merseyside	North West	ENG				258	388	646	86	129	215		77	
E07000143	Breckland	Norfolk	East of England	ENG				131	165	296	44	55	99		127	
E07000144	Broadland	Norfolk	East of England	ENG				135	187	322	45	62	107		257	
E07000145	Great Yarmouth	Norfolk	East of England	ENG				84	122	206	28	41	69		24	
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG				133	170	303	44	57	101		79	
E07000147	North Norfolk	Norfolk	East of England	ENG				133	184	317	44	61	106		94	
E07000148	Norwich	Norfolk	East of England	ENG				88	98	186	29	33	62		61	
E07000149	South Norfolk	Norfolk	East of England	ENG				146	158	304	49	53	101		225	
E07000150	Corby	Northamptonshire	East Midlands	ENG				40	51	91	13	17	30		70	
E07000151	Daventry	Northamptonshire	East Midlands	ENG				45	72	117	15	24	39		243	
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG				65	81	146	22	27	49		226	
E07000153	Kettering	Northamptonshire	East Midlands	ENG				63	98	161	21	33	54		161	
E07000154	Northampton	Northamptonshire	East Midlands	ENG				126	141	267	42	47	89		105	
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG				53	66	119	18	22	40		312	
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG				54	70	124	18	23	41		124	
E06000057	Northumberland	Northumberland	North East	ENG				319	413	732	106	138	244		131	
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG				179	214	393	60	71	131		10	
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG				87	98	185	29	33	62		63	
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG				81	115	196	27	38	65		108	
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG				83	117	200	28	39	67		223	
E07000173	Gedling	Nottinghamshire	East Midlands	ENG				100	134	234	33	45	78		207	
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG				89	103	192	30	34	64		56	
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG				80	124	204	27	41	68		148	
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG				86	122	208	29	41	69		314	
E07000177	Cherwell	Oxfordshire	South East	ENG				70	117	187	23	39	62		220	
E07000178	Oxford	Oxfordshire	South East	ENG				82	116	198	27	39	66		189	
E07000179	South Oxfordshire	Oxfordshire	South East	ENG				90	142	232	30	47	77		302	
E07000180	Vale of White Horse	Oxfordshire	South East	ENG				86	107	193	29	36	64		305	
E07000181	West Oxfordshire	Oxfordshire	South East	ENG				80	108	188	27	36	63		301	
E06000017	Rutland	Rutland	East Midlands	ENG				27	43	70	9	14	23		303	
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG				113	146	259	38	49	86		99	
E06000051	Shropshire	Shropshire	West Midlands	ENG				286	438	724	95	146	241		165	
E06000022	Bath and North East Somerset	Somerset	South West	ENG				118	210	328	39	70	109		274	
E06000024	North Somerset	Somerset	South West	ENG				183	230	413	61	77	138		221	
E07000187	Mendip	Somerset	South West	ENG				108	144	252	36	48	84		170	
E07000188	Sedgemoor	Somerset	South West	ENG				95	144	239	32	48	80		121	
E07000189	South Somerset	Somerset	South West	ENG				166	212	378	55	71	126		163	
E07000246	Somerset West and Taunton	Somerset	South West	ENG				150	234	384	50	78	128		142	
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG				150	189	339	50	63	113		15	
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG				82	85	167	27	28	56		126	
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG				79	119	198	26	40	66		157	
E07000194	Lichfield	Staffordshire	West Midlands	ENG				87	109	196	29	36	65		250	
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG				78	97	175	26	32	58		150	
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG				91	135	226	30	45	75		235	
E07000197	Stafford	Staffordshire	West Midlands	ENG				97	141	238	32	47	79		233	
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG				71	107	178	24	36	59		204	
E07000199	Tamworth	Staffordshire	West Midlands	ENG				54	69	123	18	23	41		125	
E07000200	Babergh	Suffolk	East of England	ENG				70	92	162	23	31	54		212	
E07000202	Ipswich	Suffolk	East of England	ENG				83	97	180	28	32	60		71	

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E07000203	Mid Suffolk	Suffolk	East of England	ENG				72	111	183	24	37	61		229	
E07000244	East Suffolk	Suffolk	East of England	ENG				239	313	552	80	104	184		158	
E07000245	West Suffolk	Suffolk	East of England	ENG				131	175	306	44	58	102		176	
E07000207	Elmbridge	Surrey	South East	ENG				102	134	236	34	45	79		310	
E07000208	Epsom and Ewell	Surrey	South East	ENG				51	65	116	17	22	39		299	
E07000209	Guildford	Surrey	South East	ENG				69	116	185	23	39	62		296	
E07000210	Mole Valley	Surrey	South East	ENG				70	83	153	23	28	51		294	
E07000211	Reigate and Banstead	Surrey	South East	ENG				110	151	261	37	50	87		276	
E07000212	Runnymede	Surrey	South East	ENG				70	74	144	23	25	48		256	
E07000213	Spelthorne	Surrey	South East	ENG				66	94	160	22	31	53		201	
E07000214	Surrey Heath	Surrey	South East	ENG				65	75	140	22	25	47		309	
E07000215	Tandridge	Surrey	South East	ENG				52	91	143	17	30	48		258	
E07000216	Waverley	Surrey	South East	ENG				61	143	204	20	48	68		313	
E07000217	Woking	Surrey	South East	ENG				45	85	130	15	28	43		283	
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG				215	249	464	72	83	155		74	
E08000022	North Tyneside	Tyne & Wear	North East	ENG				169	225	394	56	75	131		128	
E08000023	South Tyneside	Tyne & Wear	North East	ENG				121	179	300	40	60	100		26	
E08000024	Sunderland	Tyne & Wear	North East	ENG				229	299	528	76	100	176		33	
E08000037	Gateshead	Tyne & Wear	North East	ENG				198	199	397	66	66	132		54	
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG				51	73	124	17	24	41		155	
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG				80	123	203	27	41	68		101	
E07000220	Rugby	Warwickshire	West Midlands	ENG				70	91	161	23	30	54		222	
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG				109	149	258	36	50	86		259	
E07000222	Warwick	Warwickshire	West Midlands	ENG				94	148	242	31	49	81		263	
E08000025	Birmingham	West Midlands	West Midlands	ENG				585	739	1,324	195	246	441		6	
E08000026	Coventry	West Midlands	West Midlands	ENG				204	274	478	68	91	159		81	
E08000027	Dudley	West Midlands	West Midlands	ENG				234	335	569	78	112	190		104	
E08000028	Sandwell	West Midlands	West Midlands	ENG				177	255	432	59	85	144		8	
E08000029	Solihull	West Midlands	West Midlands	ENG				138	206	344	46	69	115		206	
E08000030	Walsall	West Midlands	West Midlands	ENG				222	254	476	74	85	159		31	
E08000031	Wolverhampton	West Midlands	West Midlands	ENG				218	278	496	73	93	165		19	
E07000223	Adur	West Sussex	South East	ENG				59	82	141	20	27	47		164	
E07000224	Arun	West Sussex	South East	ENG				143	250	393	48	83	131		149	
E07000225	Chichester	West Sussex	South East	ENG				121	175	296	40	58	99		213	
E07000226	Crawley	West Sussex	South East	ENG				46	77	123	15	26	41		136	
E07000227	Horsham	West Sussex	South East	ENG				88	155	243	29	52	81		290	
E07000228	Mid Sussex	West Sussex	South East	ENG				119	169	288	40	56	96		311	
E07000229	Worthing	West Sussex	South East	ENG				103	151	254	34	50	85		174	
E06000030	Swindon	Wiltshire	South West	ENG				129	152	281	43	51	94		171	
E06000054	Wiltshire	Wiltshire	South West	ENG				391	587	978	130	196	326		231	
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG				82	97	179	27	32	60		271	
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG				92	161	253	31	54	84		187	
E07000236	Redditch	Worcestershire	West Midlands	ENG				47	63	110	16	21	37		118	
E07000237	Worcester	Worcestershire	West Midlands	ENG				75	114	189	25	38	63		159	
E07000238	Wychavon	Worcestershire	West Midlands	ENG				96	119	215	32	40	72		191	
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG				109	141	250	36	47	83		114	
E06000010	Kingston upon Hull	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				222	297	519	74	99	173		9	
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				348	433	781	116	144	260		217	
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG				121	165	286	40	55	95		16	
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG				139	164	303	46	55	101		62	

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				140	214	354	47	71	118		275	
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				59	91	150	20	30	50		239	
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				77	101	178	26	34	59		255	
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				132	231	363	44	77	121		278	
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				41	56	97	14	19	32		251	
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				70	81	151	23	27	50		180	
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				132	253	385	44	84	128		75	
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				54	98	152	18	33	51		252	
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				191	230	421	64	77	140		38	
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				200	243	443	67	81	148		41	
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				175	246	421	58	82	140		50	
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				363	515	878	121	172	293		93	
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				367	471	838	122	157	279		21	
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				128	194	322	43	65	107		76	
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				329	407	736	110	136	245		87	
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				477	644	1,121	159	215	374		92	
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				248	320	568	83	107	189		64	
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	72.9	70.1	70.9	94	147	241	31	49	80	9	10	
N09000002	Armagh, Banbridge & Craigavon		Northern Ireland	NI	52.9	50.1	51.8	104	140	244	35	47	81	1	7	
N09000003	Belfast		Northern Ireland	NI	69.7	60.3	63.6	215	307	522	72	102	174	5	4	
N09000004	Causeway Coast & Glens		Northern Ireland	NI	71.9	58.9	64.2	108	131	239	36	44	80	6	5	
N09000005	Derry & Strabane		Northern Ireland	NI	80.9	68.9	73.5	103	122	225	34	41	75	10	1	
N09000006	Fermanagh & Omagh		Northern Ireland	NI	78.2	64.8	69.9	87	109	196	29	36	65	8	2	
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	59.6	58.2	59.9	91	132	223	30	44	74	2	11	
N09000008	Mid & East Antrim		Northern Ireland	NI	83.2	66.3	73.6	125	156	281	42	52	94	11	8	
N09000009	Mid Ulster		Northern Ireland	NI	83.7	56.3	67.8	106	102	208	35	34	69	7	6	
N09000010	Newry, Mourne & Down		Northern Ireland	NI	64.9	55.5	60.4	107	134	241	36	45	80	3	3	
N09000011	North Down & Ards		Northern Ireland	NI	62.0	63.0	62.8	113	184	297	38	61	99	4	9	
S12000005	Clackmannanshire		Scotland	SCO	90.8	71.9	80.5	53	56	109	18	19	36	18	8	
S12000006	Dumfries & Galloway		Scotland	SCO	71.0	75.1	73.9	159	233	392	53	78	131	11	10	
S12000008	East Ayrshire		Scotland	SCO	100.1	80.9	87.8	131	161	292	44	54	97	26	6	
S12000010	East Lothian		Scotland	SCO	80.2	60.8	69.4	98	111	209	33	37	70	5	22	
S12000011	East Renfrewshire		Scotland	SCO	46.3	65.4	58.6	55	121	176	18	40	59	1	32	
S12000013	Eilean Siar		Scotland	SCO	107.1	83.9	93.6	42	54	96	14	18	32	32	9	
S12000014	Falkirk		Scotland	SCO	77.7	85.5	82.6	134	212	346	45	71	115	20	16	
S12000017	Highland		Scotland	SCO	70.6	81.0	77.5	209	353	562	70	118	187	15	19	
S12000018	Inverclyde		Scotland	SCO	96.2	76.3	83.8	86	121	207	29	40	69	22	3	
S12000019	Midlothian		Scotland	SCO	73.1	80.9	79.2	70	109	179	23	36	60	17	18	
S12000020	Moray		Scotland	SCO	80.5	91.5	86.7	97	158	255	32	53	85	25	23	
S12000021	North Ayrshire		Scotland	SCO	92.8	77.7	83.5	150	195	345	50	65	115	21	2	
S12000023	Orkney Islands		Scotland	SCO	74.8	71.8	73.1	24	30	54	8	10	18	8	25	
S12000026	Scottish Borders		Scotland	SCO	76.1	67.6	71.1	117	156	273	39	52	91	6	21	
S12000027	Shetland Islands		Scotland	SCO	80.8	65.5	73.1	19	24	43	6	8	14	9	24	
S12000028	South Ayrshire		Scotland	SCO	95.1	81.3	88.0	160	202	362	53	67	121	27	13	
S12000029	South Lanarkshire		Scotland	SCO	84.9	83.7	85.8	300	445	745	100	148	248	23	11	
S12000030	Stirling		Scotland	SCO	48.6	73.9	65.9	50	117	167	17	39	56	3	28	
S12000033	Aberdeen City		Scotland	SCO	95.1	81.3	86.1	200	274	474	67	91	158	24	26	
S12000034	Aberdeenshire		Scotland	SCO	100.2	82.1	90.7	286	332	618	95	111	206	31	29	
S12000035	Argyll & Bute		Scotland	SCO	68.4	73.7	72.9	87	138	225	29	46	75	7	15	
S12000036	City of Edinburgh		Scotland	SCO	81.8	72.7	76.3	384	570	954	128	190	318	14	30	

Table 1.30 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2016/18

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					ALL AGES										
					Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National
S12000038	Renfrewshire		Scotland	SCO	94.5	81.4	88.3	189	236	425	63	79	142	28	12
S12000039	West Dunbartonshire		Scotland	SCO	93.7	74.5	81.3	79	109	188	26	36	63	19	1
S12000040	West Lothian		Scotland	SCO	72.3	77.3	76.1	121	175	296	40	58	99	13	17
S12000041	Angus		Scotland	SCO	73.0	73.4	73.6	113	182	295	38	61	98	10	20
S12000042	Dundee City		Scotland	SCO	89.4	72.4	79.1	140	183	323	47	61	108	16	7
S12000045	East Dunbartonshire		Scotland	SCO	59.9	63.5	63.0	88	141	229	29	47	76	2	31
S12000047	Fife		Scotland	SCO	79.2	72.1	75.6	341	464	805	114	155	268	12	14
S12000048	Perth & Kinross		Scotland	SCO	62.3	69.3	66.5	132	224	356	44	75	119	4	27
S12000049	Glasgow City		Scotland	SCO	96.7	84.5	90.4	498	700	1,198	166	233	399	30	4
S12000050	North Lanarkshire		Scotland	SCO	98.9	82.3	89.7	318	384	702	106	128	234	29	5
W06000003	Conwy	Clwyd	Wales / Cymru	WAL				119	184	303	40	61	101		14
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL				103	124	227	34	41	76		9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL				109	147	256	36	49	85		18
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL				87	133	220	29	44	73		16
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL				75	74	149	25	25	50		20
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL				95	146	241	32	49	80		13
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL				192	233	425	64	78	142		10
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL				134	177	311	45	59	104		5
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL				60	87	147	20	29	49		1
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL				71	101	172	24	34	57		6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL				81	117	198	27	39	66		22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL				125	155	280	42	52	93		7
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL				65	128	193	22	43	64		11
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL				109	177	286	36	59	95		17
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				123	142	265	41	47	88		8
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				194	265	459	65	88	153		4
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				48	72	120	16	24	40		2
W06000023	Powys	Powys	Wales / Cymru	WAL				147	230	377	49	77	126		21
W06000014	The Vale of Glamorgan / Bro Morgannwg South Glamorgan / De Morgannwg	Wales / Cymru	WAL					94	144	238	31	48	79		19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL				227	295	522	76	98	174		15
W06000011	Swansea / Abertawe	West Glamorgan / Gogledd-orllewin Morgannwg	Wales / Cymru	WAL				197	260	457	66	87	152		12
W06000012	Neath Port Talbot / Castell-nedd Port West Glamorgan / Gogledd-orllewin Morgannwg	Wales / Cymru	WAL					101	158	259	34	53	86		3

Notes: ICD-10 codes I60-I69. Directly standardised using the 2013 European Standard Population.
Average IMD ranks for Scotland, Wales, and Northern Ireland calculated in line with methodology for used for England

Source: England: Mortality rates not accessible at time of publication. Number of deaths are taken from NOMIS Mortality Statistics
Wales: Mortality rates not accessible at time of publication. Number of Deaths are taken from NOMIS Mortality Statistics
Scotland: Mortality rates calculated in partnership with the General Register Office for Scotland.
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.
England: Average IMD ranks taken from English Indices of Deprivation <https://www.gov.uk/government/statistics/english-indices-of-deprivation-2019>
Wales: Average IMD ranks calculated from Welsh Index of Multiple Deprivation <https://stats.wales.gov.wales/Catalogue/Community-Safety-and-Social-Inclusion/Welsh-Index-of-Multiple-Deprivation>
Scotland: Average IMD ranks calculated from Scottish Index of Multiple Deprivation <https://www.gov.scot/collections/scottish-index-of-multiple-deprivation-2020/>
Northern Ireland: Average IMD ranks calculated from Northern Ireland Multiple Deprivation Measures <https://www.nisra.gov.uk/statistics/deprivation>

Table 1.31 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2016/18

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					UNDER 75										
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1 = most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National
E06000032	Luton	Bedfordshire	East of England	ENG	26.1	10.8	18.2	52	20	74	17	7	25	298	52
E06000055	Bedford	Bedfordshire	East of England	ENG	16.0	8.2	12.1	31	16	52	10	5	17	158	156
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	9.6	7.6	8.6	35	27	64	12	9	21	34	264
E06000036	Bracknell Forest	Berkshire	South East	ENG	-	7.2	5.7	4	13	18	1	4	6	6	284
E06000037	West Berkshire	Berkshire	South East	ENG	8.8	9.1	9.0	14	13	38	5	4	13	50	289
E06000038	Reading	Berkshire	South East	ENG	20.2	9.7	15.0	22	17	45	7	6	15	243	141
E06000039	Slough	Berkshire	South East	ENG	16.1	20.6	18.5	16	27	45	5	9	15	301	73
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	13.4	9.6	11.4	21	18	44	7	6	15	137	304
E06000041	Wokingham	Berkshire	South East	ENG	9.2	6.3	7.7	18	11	31	6	4	10	20	316
E06000023	Bristol	Bristol	South West	ENG	14.3	11.1	12.7	64	49	113	21	16	38	180	82
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	16.6	11.4	13.9	45	35	83	15	12	28	218	172
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG	10.1	7.9	8.9	20	16	43	7	5	14	46	277
E07000005	Chiltern	Buckinghamshire	South East	ENG	-	-	5.8	9	11	15	3	4	5	8	315
E07000006	South Bucks	Buckinghamshire	South East	ENG	-	10.9	9.5	5	9	18	2	3	6	64	292
E07000007	Wycombe	Buckinghamshire	South East	ENG	9.2	5.5	7.3	22	11	33	7	4	11	14	280
E06000031	Peterborough	Cambridgeshire	East of England	ENG	18.2	12.9	15.6	38	26	69	13	9	23	261	53
E07000008	Cambridge	Cambridgeshire	East of England	ENG	16.8	-	9.8	17	6	20	6	2	7	70	205
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	12.4	13.2	12.7	16	13	29	5	4	10	183	266
E07000010	Fenland	Cambridgeshire	East of England	ENG	16.8	13.9	15.3	24	18	46	8	6	15	254	51
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	9.5	4.3	6.9	22	10	35	7	3	12	12	247
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	10.3	8.0	9.1	16	19	40	5	6	13	53	300
E06000006	Halton	Cheshire	North West	ENG	20.4	12.0	16.1	32	21	57	11	7	19	268	39
E06000007	Warrington	Cheshire	North West	ENG	18.0	12.9	15.4	49	36	87	16	12	29	256	175
E06000049	Cheshire East	Cheshire	North West	ENG	13.8	6.6	10.2	78	40	118	26	13	39	84	228
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	16.2	9.5	12.7	77	48	125	26	16	42	182	183
E06000052	Cornwall	Cornwall	South West	ENG	14.1	10.6	12.3	127	103	230	42	34	77	166	83
E06000053	Isles of Scilly	Cornwall	South West	ENG	-	-	-	-	-	-	-	-	-	1	245
E06000001	Hartlepool	County Durham	North East	ENG	24.9	15.9	20.3	33	23	49	11	8	16	311	25
E06000004	Stockton-on-Tees	County Durham	North East	ENG	14.1	11.0	12.5	33	29	64	11	10	21	175	113
E06000005	Darlington	County Durham	North East	ENG	16.1	15.1	15.6	19	20	46	6	7	15	265	103
E06000047	County Durham	County Durham	North East	ENG	18.0	15.8	16.9	134	124	258	45	41	86	280	65
E07000026	Allerdale	Cumbria	North West	ENG	16.3	11.1	13.7	23	17	44	8	6	15	210	109
E07000027	Barrow-in-Furness	Cumbria	North West	ENG	19.5	13.6	16.5	21	8	30	7	3	10	277	44
E07000028	Carlisle	Cumbria	North West	ENG	14.1	8.7	11.3	21	14	36	7	5	12	132	115
E07000029	Copeland	Cumbria	North West	ENG	16.5	-	12.0	19	4	27	6	1	9	154	78
E07000030	Eden	Cumbria	North West	ENG	-	11.2	8.9	8	20	11	3	7	4	45	169
E07000031	South Lakeland	Cumbria	North West	ENG	11.9	8.9	10.4	20	19	39	7	6	13	93	242
E06000015	Derby	Derbyshire	East Midlands	ENG	17.2	12.9	14.9	47	39	86	16	13	29	240	90
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	12.7	11.6	12.1	24	20	47	8	7	16	160	167
E07000033	Bolsover	Derbyshire	East Midlands	ENG	12.4	-	9.3	12	9	19	4	3	6	55	58
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	18.6	11.1	14.8	21	18	45	7	6	15	237	86
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	8.7	8.3	8.6	8	11	17	3	4	6	36	265
E07000036	Erewash	Derbyshire	East Midlands	ENG	16.5	14.3	15.4	23	21	50	8	7	17	257	168
E07000037	High Peak	Derbyshire	East Midlands	ENG	10.5	11.4	11.0	18	10	30	6	3	10	112	202
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	10.8	11.3	11.0	16	16	38	5	5	13	115	177
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	9.9	9.3	9.6	15	9	29	5	3	10	66	218
E06000026	Plymouth	Devon	South West	ENG	12.8	12.2	12.5	41	42	83	14	14	28	173	72
E06000027	Torbay	Devon	South West	ENG	12.6	17.0	14.8	26	38	66	9	13	22	238	48
E07000040	East Devon	Devon	South West	ENG	13.5	10.2	11.8	35	28	63	12	9	21	146	238
E07000041	Exeter	Devon	South West	ENG	15.4	7.0	11.0	20	9	28	7	3	9	114	193
E07000042	Mid Devon	Devon	South West	ENG	12.9	12.2	12.7	7	10	30	2	3	10	178	162

Table 1.31 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2016/18

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					UNDER 75												
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1 = most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
E07000043	North Devon	Devon	South West	ENG	19.8	15.6	17.6	30	24	56	10	8	19	289	123		
E07000044	South Hams	Devon	South West	ENG	10.0	6.3	8.1	19	15	27	6	5	9	27	219		
E07000045	Teignbridge	Devon	South West	ENG	9.0	8.5	8.8	20	19	40	7	6	13	41	186		
E07000046	Torridge	Devon	South West	ENG	15.3	15.5	15.5	16	17	34	5	6	11	259	67		
E07000047	West Devon	Devon	South West	ENG	-	-	5.8	7	2	11	2	1	4	7	139		
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	13.7	9.1	11.3	71	51	122	24	17	41	131	166		
E06000059	Dorset	Dorset	South West	ENG	11.5	9.1	10.3	70	63	133	23	21	44	88	197		
E06000043	Brighton and Hove	East Sussex	South East	ENG	14.3	10.2	12.2	37	29	71	12	10	24	165	140		
E07000061	Eastbourne	East Sussex	South East	ENG	15.9	11.1	13.4	18	14	40	6	5	13	199	106		
E07000062	Hastings	East Sussex	South East	ENG	20.2	17.5	18.8	21	24	46	7	8	15	305	13		
E07000063	Lewes	East Sussex	South East	ENG	9.6	9.3	9.4	9	12	31	3	4	10	60	194		
E07000064	Rother	East Sussex	South East	ENG	9.8	8.4	9.0	14	8	30	5	3	10	51	135		
E07000065	Wealden	East Sussex	South East	ENG	10.9	10.0	10.4	26	26	55	9	9	18	96	254		
E06000033	Southend-on-Sea	Essex	East of England	ENG	17.8	10.4	14.0	36	24	67	12	8	22	220	129		
E06000034	Thurrock	Essex	East of England	ENG	13.6	6.7	10.1	21	13	40	7	4	13	80	116		
E07000066	Basildon	Essex	East of England	ENG	18.0	11.7	14.7	37	27	67	12	9	22	235	111		
E07000067	Braintree	Essex	East of England	ENG	11.9	10.2	11.1	25	21	46	8	7	15	119	203		
E07000068	Brentwood	Essex	East of England	ENG	10.0	-	7.7	5	11	14	2	4	5	19	287		
E07000069	Castle Point	Essex	East of England	ENG	16.9	11.1	13.8	23	13	42	8	4	14	213	182		
E07000070	Chelmsford	Essex	East of England	ENG	11.1	6.2	8.5	24	15	40	8	5	13	32	260		
E07000071	Colchester	Essex	East of England	ENG	9.2	9.4	9.3	17	19	44	6	6	15	57	181		
E07000072	Epping Forest	Essex	East of England	ENG	10.0	9.1	9.5	23	16	34	8	5	11	65	200		
E07000073	Harlow	Essex	East of England	ENG	20.9	15.2	18.0	24	15	32	8	5	11	295	100		
E07000074	Maldon	Essex	East of England	ENG	16.6	11.6	14.1	14	12	27	5	4	9	224	211		
E07000075	Rochford	Essex	East of England	ENG	-	-	4.6	4	7	11	1	2	4	5	286		
E07000076	Tendring	Essex	East of England	ENG	19.5	13.7	16.4	47	33	82	16	11	27	275	32		
E07000077	Uttlesford	Essex	East of England	ENG	8.9	8.8	8.8	10	6	19	3	2	6	43	295		
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	9.1	7.9	8.5	32	29	62	11	10	21	30	267		
E07000078	Cheltenham	Gloucestershire	South West	ENG	13.1	8.6	10.7	17	11	31	6	4	10	108	237		
E07000079	Cotswold	Gloucestershire	South West	ENG	11.8	12.3	12.0	11	20	36	4	7	12	156	272		
E07000080	Forest of Dean	Gloucestershire	South West	ENG	12.2	7.4	9.8	13	8	27	4	3	9	69	143		
E07000081	Gloucester	Gloucestershire	South West	ENG	16.3	10.2	13.3	20	17	42	7	6	14	198	138		
E07000082	Stroud	Gloucestershire	South West	ENG	10.6	11.5	11.1	15	20	39	5	7	13	120	279		
E07000083	Tewkesbury	Gloucestershire	South West	ENG	11.4	10.7	11.0	14	13	28	5	4	9	113	261		
E09000001	City of London	Greater London	London	ENG	-	-	-	-	-	-	-	-	-	1	208		
E09000002	Barking and Dagenham	Greater London	London	ENG	27.4	10.6	18.6	43	20	59	14	7	20	302	5		
E09000003	Barnet	Greater London	London	ENG	10.5	5.8	8.0	41	24	66	14	8	22	24	184		
E09000004	Bexley	Greater London	London	ENG	11.3	9.9	10.5	29	30	60	10	10	20	101	190		
E09000005	Brent	Greater London	London	ENG	21.3	14.8	18.0	65	44	113	22	15	38	294	49		
E09000006	Bromley	Greater London	London	ENG	14.2	10.4	12.2	54	44	98	18	15	33	163	230		
E09000007	Camden	Greater London	London	ENG	10.5	8.7	9.6	25	17	44	8	6	15	67	132		
E09000008	Croydon	Greater London	London	ENG	15.0	12.3	13.6	59	53	112	20	18	37	209	102		
E09000009	Ealing	Greater London	London	ENG	15.5	10.1	12.7	48	36	86	16	12	29	177	88		
E09000010	Enfield	Greater London	London	ENG	16.0	7.0	11.2	49	25	74	16	8	25	124	59		
E09000011	Greenwich	Greater London	London	ENG	14.6	12.4	13.4	32	32	68	11	11	23	203	60		
E09000012	Hackney	Greater London	London	ENG	14.2	8.6	11.2	16	10	42	5	3	14	126	7		
E09000013	Hammersmith and Fulham	Greater London	London	ENG	15.0	10.1	12.5	22	20	38	7	7	13	174	96		
E09000014	Haringey	Greater London	London	ENG	20.5	11.0	15.3	35	21	68	12	7	23	250	37		
E09000015	Harrow	Greater London	London	ENG	14.2	8.3	11.2	35	24	62	12	8	21	121	199		
E09000016	Havering	Greater London	London	ENG	14.3	9.9	12.0	43	33	76	14	11	25	149	179		
E09000017	Hillingdon	Greater London	London	ENG	20.2	10.3	15.1	61	33	95	20	11	32	247	151		

Table 1.31 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2016/18

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					UNDER 75												
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
E09000018	Hounslow	Greater London	London	ENG	20.0	12.7	16.3	52	33	89	17	11	30	274	95		
E09000019	Islington	Greater London	London	ENG	14.2	13.9	14.0	21	23	50	7	8	17	223	28		
E09000020	Kensington and Chelsea	Greater London	London	ENG	12.4	7.9	9.8	17	18	34	6	6	11	74	122		
E09000021	Kingston upon Thames	Greater London	London	ENG	16.4	-	10.6	24	2	40	8	1	13	104	270		
E09000022	Lambeth	Greater London	London	ENG	24.6	14.2	19.1	52	36	92	17	12	31	308	42		
E09000023	Lewisham	Greater London	London	ENG	22.9	13.6	18.1	55	31	90	18	10	30	296	35		
E09000024	Merton	Greater London	London	ENG	14.0	12.1	13.1	26	25	53	9	8	18	192	214		
E09000025	Newham	Greater London	London	ENG	15.0	14.8	15.0	42	32	78	14	11	26	244	12		
E09000026	Redbridge	Greater London	London	ENG	17.2	10.0	13.4	49	29	77	16	10	26	204	160		
E09000027	Richmond upon Thames	Greater London	London	ENG	10.5	10.1	10.3	25	25	46	8	8	15	89	297		
E09000028	Southwark	Greater London	London	ENG	17.3	13.6	15.5	42	31	80	14	10	27	260	43		
E09000029	Sutton	Greater London	London	ENG	10.7	12.1	11.3	21	29	51	7	10	17	130	227		
E09000030	Tower Hamlets	Greater London	London	ENG	14.1	20.4	17.2	19	37	63	6	12	21	286	27		
E09000031	Waltham Forest	Greater London	London	ENG	16.4	13.1	14.6	34	33	68	11	11	23	233	45		
E09000032	Wandsworth	Greater London	London	ENG	9.4	10.2	9.8	20	28	49	7	9	16	73	173		
E09000033	Westminster	Greater London	London	ENG	17.0	8.1	12.4	36	19	59	12	6	20	170	134		
E08000001	Bolton	Greater Manchester	North West	ENG	15.4	13.5	14.4	54	50	104	18	17	35	231	47		
E08000002	Bury	Greater Manchester	North West	ENG	14.9	13.6	14.2	33	37	71	11	12	24	229	110		
E08000003	Manchester	Greater Manchester	North West	ENG	23.1	14.7	18.8	94	63	157	31	21	52	304	2		
E08000004	Oldham	Greater Manchester	North West	ENG	22.5	17.8	20.0	59	51	112	20	17	37	310	29		
E08000005	Rochdale	Greater Manchester	North West	ENG	19.8	15.5	17.6	48	41	94	16	14	31	288	17		
E08000006	Salford	Greater Manchester	North West	ENG	16.9	12.5	14.7	44	34	78	15	11	26	234	20		
E08000007	Stockport	Greater Manchester	North West	ENG	14.0	8.1	11.0	54	33	87	18	11	29	116	154		
E08000008	Tameside	Greater Manchester	North West	ENG	25.4	20.6	23.0	74	62	136	25	21	45	316	23		
E08000009	Trafford	Greater Manchester	North West	ENG	14.5	13.1	13.8	41	38	80	14	13	27	214	209		
E08000010	Wigan	Greater Manchester	North West	ENG	15.4	17.6	16.5	70	82	152	23	27	51	278	97		
E06000044	Portsmouth	Hampshire	South East	ENG	21.0	11.4	16.1	45	24	72	15	8	24	269	57		
E06000045	Southampton	Hampshire	South East	ENG	12.0	8.2	10.0	21	20	50	7	7	17	79	55		
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	12.5	7.7	10.1	29	16	46	10	5	15	82	246		
E07000085	East Hampshire	Hampshire	South East	ENG	9.8	8.7	9.3	15	21	34	5	7	11	56	285		
E07000086	Eastleigh	Hampshire	South East	ENG	6.4	7.1	6.7	8	12	26	3	4	9	10	288		
E07000087	Fareham	Hampshire	South East	ENG	14.1	6.6	10.2	27	10	36	9	3	12	86	298		
E07000088	Gosport	Hampshire	South East	ENG	15.8	12.4	14.0	11	20	35	4	7	12	222	130		
E07000089	Hart	Hampshire	South East	ENG	7.9	8.2	8.1	9	12	21	3	4	7	25	317		
E07000090	Havant	Hampshire	South East	ENG	13.2	9.6	11.3	18	15	42	6	5	14	129	133		
E07000091	New Forest	Hampshire	South East	ENG	10.2	7.7	8.9	29	24	54	10	8	18	48	241		
E07000092	Rushmoor	Hampshire	South East	ENG	15.2	17.2	16.2	17	21	32	6	7	11	271	196		
E07000093	Test Valley	Hampshire	South East	ENG	13.9	7.4	10.6	25	11	39	8	4	13	103	262		
E07000094	Winchester	Hampshire	South East	ENG	11.9	7.1	9.5	16	7	33	5	2	11	62	293		
E06000019	Herefordshire	Herefordshire	West Midlands	ENG	9.3	10.2	9.8	26	32	59	9	11	20	71	137		
E07000095	Broxbourne	Hertfordshire	East of England	ENG	14.6	8.7	11.5	14	10	27	5	3	9	141	153		
E07000096	Dacorum	Hertfordshire	East of England	ENG	12.2	7.4	9.6	22	17	37	7	6	12	68	240		
E07000098	Hertsmere	Hertfordshire	East of England	ENG	15.1	11.0	13.0	15	15	32	5	5	11	190	224		
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	9.0	6.2	7.5	14	7	26	5	2	9	16	269		
E07000102	Three Rivers	Hertfordshire	East of England	ENG	13.2	9.8	11.4	19	13	25	6	4	8	138	291		
E07000103	Watford	Hertfordshire	East of England	ENG	17.2	12.6	15.0	22	13	29	7	4	10	242	195		
E07000240	St Albans	Hertfordshire	East of England	ENG	13.7	7.9	10.7	16	12	38	5	4	13	106	306		
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	16.3	8.6	12.3	13	12	31	4	4	10	168	215		
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	10.9	9.7	10.3	17	20	40	6	7	13	90	307		
E07000243	Stevenage	Hertfordshire	East of England	ENG	16.8	13.6	15.3	17	14	30	6	5	10	253	117		
E06000046	Isle of Wight	Isle of Wight	South East	ENG	11.8	8.5	10.1	28	19	51	9	6	17	83	80		

Table 1.31 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2016/18

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					UNDER 75												
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
E06000035	Medway	Kent	South East	ENG	15.4	10.5	12.8	50	33	88	17	11	29	186	98		
E07000105	Ashford	Kent	South East	ENG	14.2	9.3	11.7	24	14	39	8	5	13	145	152		
E07000106	Canterbury	Kent	South East	ENG	12.9	9.9	11.4	26	21	49	9	7	16	135	185		
E07000107	Dartford	Kent	South East	ENG	23.1	14.4	18.4	26	10	43	9	3	14	300	145		
E07000108	Dover	Kent	South East	ENG	8.6	10.4	9.5	11	18	35	4	6	12	63	107		
E07000109	Gravesham	Kent	South East	ENG	14.8	12.3	13.6	11	18	35	4	6	12	208	119		
E07000110	Maidstone	Kent	South East	ENG	12.6	6.5	9.5	28	13	43	9	4	14	61	188		
E07000111	Sevenoaks	Kent	South East	ENG	10.2	12.2	11.2	12	24	38	4	8	13	125	253		
E07000112	Folkestone & Hythe	Kent	South East	ENG	13.3	8.6	10.9	24	12	39	8	4	13	111	84		
E07000113	Swale	Kent	South East	ENG	12.9	12.6	12.8	29	21	52	10	7	17	184	69		
E07000114	Thanet	Kent	South East	ENG	14.8	9.6	12.1	28	17	51	9	6	17	157	34		
E07000115	Tonbridge and Malling	Kent	South East	ENG	15.8	7.2	11.5	24	15	39	8	5	13	139	236		
E07000116	Tunbridge Wells	Kent	South East	ENG	14.5	10.4	12.3	15	16	39	5	5	13	169	273		
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	20.6	13.3	16.9	32	22	56	11	7	19	282	14		
E06000009	Blackpool	Lancashire	North West	ENG	20.7	13.1	16.9	39	26	66	13	9	22	281	1		
E07000117	Burnley	Lancashire	North West	ENG	27.9	14.8	21.2	35	16	45	12	5	15	314	11		
E07000118	Chorley	Lancashire	North West	ENG	19.1	14.2	16.7	27	27	56	9	9	19	279	192		
E07000119	Fylde	Lancashire	North West	ENG	15.1	15.3	15.2	13	18	41	4	6	14	248	198		
E07000120	Hyndburn	Lancashire	North West	ENG	16.0	11.1	13.6	22	12	35	7	4	12	207	18		
E07000121	Lancaster	Lancashire	North West	ENG	17.4	14.4	15.8	29	25	60	10	8	20	266	112		
E07000122	Pendle	Lancashire	North West	ENG	18.8	8.3	13.4	26	8	34	9	3	11	201	36		
E07000123	Preston	Lancashire	North West	ENG	21.9	12.8	17.4	34	22	50	11	7	17	287	46		
E07000124	Ribble Valley	Lancashire	North West	ENG	14.8	13.1	13.8	14	13	31	5	4	10	215	282		
E07000125	Rossendale	Lancashire	North West	ENG	16.5	13.1	14.7	13	10	30	4	3	10	236	91		
E07000126	South Ribble	Lancashire	North West	ENG	15.4	10.9	13.1	19	19	42	6	6	14	194	210		
E07000127	West Lancashire	Lancashire	North West	ENG	12.3	11.7	12.0	20	15	40	7	5	13	152	178		
E07000128	Wyre	Lancashire	North West	ENG	16.2	8.7	12.3	29	16	46	10	5	15	167	147		
E06000016	Leicester	Leicestershire	East Midlands	ENG	19.9	18.1	19.0	65	60	125	22	20	42	307	22		
E07000129	Blaby	Leicestershire	East Midlands	ENG	15.6	-	10.8	24	12	28	8	4	9	109	281		
E07000130	Charnwood	Leicestershire	East Midlands	ENG	11.7	6.4	8.9	21	12	41	7	4	14	47	244		
E07000131	Harborough	Leicestershire	East Midlands	ENG	9.8	9.1	9.4	10	11	23	3	4	8	59	308		
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	9.7	8.8	9.3	9	15	30	3	5	10	54	232		
E07000133	Melton	Leicestershire	East Midlands	ENG	12.1	-	10.3	14	12	21	5	4	7	91	248		
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	12.0	10.7	11.4	15	18	32	5	6	11	134	216		
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	-	13.8	11.0	12	6	15	4	2	5	118	249		
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	19.0	11.9	15.3	42	25	68	14	8	23	252	66		
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	12.8	16.0	14.4	29	45	72	10	15	24	230	120		
E07000136	Boston	Lincolnshire	East Midlands	ENG	21.4	10.1	15.6	28	8	28	9	3	9	262	85		
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	12.9	15.4	14.1	35	43	78	12	14	26	225	30		
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	20.4	17.6	18.9	20	22	38	7	7	13	306	68		
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	9.9	10.6	10.2	19	18	37	6	6	12	87	268		
E07000140	South Holland	Lincolnshire	East Midlands	ENG	12.9	7.2	10.0	17	9	27	6	3	9	77	144		
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	9.6	5.8	7.6	18	13	33	6	4	11	18	234		
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	12.1	11.0	11.5	17	17	37	6	6	12	140	146		
E08000011	Knowsley	Merseyside	North West	ENG	21.8	15.3	18.3	36	33	69	12	11	23	299	3		
E08000012	Liverpool	Merseyside	North West	ENG	24.3	18.3	21.2	127	101	228	42	34	76	315	4		
E08000013	St. Helens	Merseyside	North West	ENG	10.7	14.2	12.4	27	37	64	9	12	21	172	40		
E08000014	Sefton	Merseyside	North West	ENG	13.4	12.3	12.8	52	52	104	17	17	35	185	89		
E08000015	Wirral	Merseyside	North West	ENG	16.0	18.2	17.1	72	88	160	24	29	53	284	77		
E07000143	Breckland	Norfolk	East of England	ENG	13.4	10.8	12.0	28	25	52	9	8	17	155	127		
E07000144	Broadland	Norfolk	East of England	ENG	11.4	7.4	9.4	24	18	42	8	6	14	58	257		

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					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1 = most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National
E07000145	Great Yarmouth	Norfolk	East of England	ENG	15.8	12.3	14.0	25	16	44	8	5	15	221	24
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	16.0	12.4	14.1	40	29	70	13	10	23	226	79
E07000147	North Norfolk	Norfolk	East of England	ENG	15.3	9.2	12.2	30	20	51	10	7	17	162	94
E07000148	Norwich	Norfolk	East of England	ENG	15.0	12.1	13.5	20	21	40	7	7	13	205	61
E07000149	South Norfolk	Norfolk	East of England	ENG	12.6	7.6	10.0	27	16	44	9	5	15	78	225
E07000150	Corby	Northamptonshire	East Midlands	ENG	15.6	22.6	19.5	15	17	39	5	6	13	309	70
E07000151	Daventry	Northamptonshire	East Midlands	ENG	9.6	-	7.9	10	6	17	3	2	6	22	243
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG	16.1	7.1	11.5	19	7	32	6	2	11	142	226
E07000153	Kettering	Northamptonshire	East Midlands	ENG	14.3	12.2	13.2	9	10	35	3	3	12	196	161
E07000154	Northampton	Northamptonshire	East Midlands	ENG	17.6	8.8	13.1	47	19	68	16	6	23	193	105
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG	7.9	-	6.9	12	12	14	4	4	5	11	312
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG	17.2	11.3	14.1	16	8	26	5	3	9	227	124
E06000057	Northumberland	Northumberland	North East	ENG	15.3	15.0	15.1	79	83	162	26	28	54	246	131
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	20.8	15.5	18.2	60	46	107	20	15	36	297	10
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	20.6	15.3	17.8	23	25	61	8	8	20	293	63
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	11.7	13.6	12.7	18	21	44	6	7	15	181	108
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	12.6	11.7	12.1	19	17	39	6	6	13	161	223
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	14.8	13.6	14.2	23	26	47	8	9	16	228	207
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	15.0	12.4	13.7	23	21	40	8	7	13	211	56
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	10.7	13.1	11.9	17	24	43	6	8	14	148	148
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	11.6	11.6	11.6	14	19	37	5	6	12	143	314
E07000177	Cherwell	Oxfordshire	South East	ENG	9.1	8.0	8.5	23	16	30	8	5	10	33	220
E07000178	Oxford	Oxfordshire	South East	ENG	19.7	13.4	16.4	22	18	44	7	6	15	276	189
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	8.5	7.1	7.8	11	13	31	4	4	10	21	302
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	9.6	8.2	8.9	18	18	31	6	6	10	44	305
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	10.1	7.2	8.6	7	11	27	2	4	9	35	301
E06000017	Rutland	Rutland	East Midlands	ENG	-	-	-	7	4	5	2	1	2	1	303
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	21.0	14.8	17.8	44	36	79	15	12	26	292	99
E06000051	Shropshire	Shropshire	West Midlands	ENG	12.7	11.2	11.9	64	56	120	21	19	40	147	165
E06000022	Bath and North East Somerset	Somerset	South West	ENG	11.3	10.1	10.6	24	22	51	8	7	17	105	274
E06000024	North Somerset	Somerset	South West	ENG	13.6	6.3	9.9	44	22	66	15	7	22	75	221
E07000187	Mendip	Somerset	South West	ENG	15.5	10.0	12.6	29	17	45	10	6	15	176	170
E07000188	Sedgemoor	Somerset	South West	ENG	8.7	7.2	8.0	15	14	30	5	5	10	23	121
E07000189	South Somerset	Somerset	South West	ENG	13.4	10.6	12.0	37	30	67	12	10	22	150	163
E07000246	Somerset West and Taunton	Somerset	South West	ENG	8.4	8.2	8.3	18	19	40	6	6	13	29	142
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	19.3	9.8	14.5	60	32	93	20	11	31	232	15
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	16.3	7.7	12.0	17	11	34	6	4	11	151	126
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	17.1	8.8	12.9	17	12	41	6	4	14	189	157
E07000194	Lichfield	Staffordshire	West Midlands	ENG	13.6	10.5	12.0	21	18	39	7	6	13	153	250
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	10.3	7.8	9.1	17	11	32	6	4	11	52	150
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	13.3	8.5	10.8	20	14	40	7	5	13	110	235
E07000197	Stafford	Staffordshire	West Midlands	ENG	9.6	7.5	8.5	16	12	34	5	4	11	31	233
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	11.8	10.7	11.2	17	14	36	6	5	12	127	204
E07000199	Tamworth	Staffordshire	West Midlands	ENG	11.7	10.9	11.4	15	3	24	5	1	8	136	125
E07000200	Babergh	Suffolk	East of England	ENG	8.9	7.4	8.1	9	8	25	3	3	8	26	212
E07000202	Ipswich	Suffolk	East of England	ENG	20.2	11.1	15.6	32	13	46	11	4	15	264	71
E07000203	Mid Suffolk	Suffolk	East of England	ENG	11.2	6.5	8.8	13	6	30	4	2	10	42	229
E07000244	East Suffolk	Suffolk	East of England	ENG	10.6	10.4	10.5	41	45	87	14	15	29	100	158
E07000245	West Suffolk	Suffolk	East of England	ENG	11.3	12.9	12.1	27	32	60	9	11	20	159	176
E07000207	Elmbridge	Surrey	South East	ENG	11.5	9.9	10.7	20	15	37	7	5	12	107	310
E07000208	Epsom and Ewell	Surrey	South East	ENG	11.6	-	7.4	13	3	15	4	1	5	15	299

Table 1.31 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2016/18

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					UNDER 75												
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
E07000209	Guildford	Surrey	South East	ENG	7.3	14.9	11.2	9	22	41	3	7	14	122	296		
E07000210	Mole Valley	Surrey	South East	ENG	11.4	-	9.0	13	3	25	4	1	8	49	294		
E07000211	Reigate and Banstead	Surrey	South East	ENG	18.1	8.3	13.0	31	20	48	10	7	16	191	276		
E07000212	Runnymede	Surrey	South East	ENG	12.0	-	10.4	8	7	19	3	2	6	92	256		
E07000213	Spelthorne	Surrey	South East	ENG	16.2	11.9	13.9	26	11	36	9	4	12	219	201		
E07000214	Surrey Heath	Surrey	South East	ENG	13.0	8.1	10.5	12	8	24	4	3	8	99	309		
E07000215	Tandridge	Surrey	South East	ENG	9.8	-	7.6	12	7	23	4	2	8	17	258		
E07000216	Waverley	Surrey	South East	ENG	10.3	6.5	8.3	9	12	30	3	4	10	28	313		
E07000217	Woking	Surrey	South East	ENG	-	-	6.2	5	7	13	2	2	4	9	283		
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	18.9	15.3	17.1	57	47	104	19	16	35	283	74		
E08000022	North Tyneside	Tyne & Wear	North East	ENG	15.6	11.2	13.3	43	34	77	14	11	26	197	128		
E08000023	South Tyneside	Tyne & Wear	North East	ENG	16.2	13.9	14.9	34	31	64	11	10	21	241	26		
E08000024	Sunderland	Tyne & Wear	North East	ENG	19.2	13.7	16.3	70	55	125	23	18	42	272	33		
E08000037	Gateshead	Tyne & Wear	North East	ENG	23.4	11.5	17.2	61	32	93	20	11	31	285	54		
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	17.5	9.7	13.6	14	8	28	5	3	9	206	155		
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	10.4	11.5	11.0	15	20	39	5	7	13	117	101		
E07000220	Rugby	Warwickshire	West Midlands	ENG	10.2	7.2	8.7	7	10	24	2	3	8	38	222		
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	14.6	8.3	11.4	30	17	46	10	6	15	133	259		
E07000222	Warwick	Warwickshire	West Midlands	ENG	13.4	7.8	10.5	24	12	38	8	4	13	98	263		
E08000025	Birmingham	West Midlands	West Midlands	ENG	17.9	12.5	15.1	191	140	331	64	47	110	245	6		
E08000026	Coventry	West Midlands	West Midlands	ENG	20.1	10.7	15.2	68	39	108	23	13	36	249	81		
E08000027	Dudley	West Midlands	West Midlands	ENG	14.2	13.5	13.8	61	61	122	20	20	41	216	104		
E08000028	Sandwell	West Midlands	West Midlands	ENG	18.5	12.4	15.4	62	44	109	21	15	36	255	8		
E08000029	Solihull	West Midlands	West Midlands	ENG	11.8	10.8	11.3	35	32	67	12	11	22	128	206		
E08000030	Walsall	West Midlands	West Midlands	ENG	21.2	16.4	18.7	70	58	128	23	19	43	303	31		
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	25.4	16.6	20.9	74	51	125	25	17	42	313	19		
E07000223	Adur	West Sussex	South East	ENG	16.0	-	10.2	11	2	19	4	1	6	85	164		
E07000224	Arun	West Sussex	South East	ENG	8.8	10.7	9.8	20	31	52	7	10	17	72	149		
E07000225	Chichester	West Sussex	South East	ENG	14.7	11.7	13.1	28	22	51	9	7	17	195	213		
E07000226	Crawley	West Sussex	South East	ENG	15.9	11.1	13.4	25	12	31	8	4	10	200	136		
E07000227	Horsham	West Sussex	South East	ENG	5.9	7.8	6.9	10	19	29	3	6	10	13	290		
E07000228	Mid Sussex	West Sussex	South East	ENG	13.4	7.7	10.4	24	16	44	8	5	15	95	311		
E07000229	Worthing	West Sussex	South East	ENG	9.3	10.6	10.1	13	16	31	4	5	10	81	174		
E06000030	Swindon	Wiltshire	South West	ENG	15.3	10.7	12.9	37	29	69	12	10	23	188	171		
E06000054	Wiltshire	Wiltshire	South West	ENG	12.0	8.0	9.9	84	58	142	28	19	47	76	231		
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	9.6	7.9	8.7	10	12	26	3	4	9	39	271		
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	-	14.5	10.6	4	21	30	1	7	10	102	187		
E07000236	Redditch	Worcestershire	West Midlands	ENG	11.4	-	8.6	15	3	18	5	1	6	37	118		
E07000237	Worcester	Worcestershire	West Midlands	ENG	17.3	13.5	15.3	14	12	36	5	4	12	251	159		
E07000238	Wychavon	Worcestershire	West Midlands	ENG	9.8	7.9	8.8	20	12	35	7	4	12	40	191		
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	21.6	10.9	16.2	32	14	54	11	5	18	270	114		
E06000010	Kingston upon Hull	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	25.3	16.5	20.8	73	48	121	24	16	40	312	9		
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	13.8	9.6	11.6	80	56	136	27	19	45	144	217		
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	25.9	20.7	23.2	41	36	78	14	12	26	317	16		
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	18.2	17.2	17.7	34	34	71	11	11	24	290	62		
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	12.9	11.7	12.2	32	29	63	11	10	21	164	275		
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	-	13.4	11.2	12	15	21	4	5	7	123	239		
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	-	-	4.4	5	2	14	2	1	5	4	255		
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	12.3	12.4	12.4	29	32	61	10	11	20	171	278		
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	13.1	14.7	13.9	11	8	20	4	3	7	217	251		
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	-	12.9	10.5	7	18	19	2	6	6	97	180		

Table 1.31 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2016/18

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					UNDER 75										
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	15.0	16.1	15.6	23	30	57	8	10	19	263	75
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	12.5	8.4	10.4	17	9	27	6	3	9	94	252
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	15.7	16.2	15.9	52	55	108	17	18	36	267	38
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	14.6	10.9	12.7	60	47	107	20	16	36	179	41
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	13.3	12.4	12.9	48	46	94	16	15	31	187	50
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	15.6	14.0	14.8	100	94	194	33	31	65	239	93
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	22.9	13.0	17.8	131	77	208	44	26	69	291	21
E08000033	Calderdale	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	17.5	9.6	13.4	48	28	77	16	9	26	202	76
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	17.7	14.9	16.3	96	85	181	32	28	60	273	87
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	15.2	12.3	13.7	129	111	240	43	37	80	212	92
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	15.7	15.1	15.4	73	72	145	24	24	48	258	64
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	16.0	16.7	16.5	27	30	57	9	10	19	9	10
N09000002	Armagh, Banbridge & Craigavon		Northern Ireland	NI	12.9	11.4	12.2	31	29	60	10	10	20	3	7
N09000003	Belfast		Northern Ireland	NI	16.2	17.8	17.0	57	69	126	19	23	42	11	4
N09000004	Causeway Coast & Glens		Northern Ireland	NI	16.0	12.1	14.0	30	23	53	10	8	18	7	5
N09000005	Derry & Strabane		Northern Ireland	NI	16.8	16.9	16.9	29	31	60	10	10	20	10	1
N09000006	Fermanagh & Omagh		Northern Ireland	NI	13.4	11.2	12.3	19	16	35	6	5	12	4	2
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	11.6	10.5	11.0	20	20	40	7	7	13	1	11
N09000008	Mid & East Antrim		Northern Ireland	NI	14.8	10.4	12.5	27	20	47	9	7	16	6	8
N09000009	Mid Ulster		Northern Ireland	NI	20.5	12.1	16.3	33	19	52	11	6	17	8	6
N09000010	Newry, Mourne & Down		Northern Ireland	NI	13.7	9.1	11.3	27	19	46	9	6	15	2	3
N09000011	North Down & Ards		Northern Ireland	NI	14.8	10.4	12.5	34	26	60	11	9	20	5	9
S12000005	Clackmannanshire	Scotland	SCO	SCO	28.9	19.9	24.2	21	16	37	7	5	12	31	8
S12000006	Dumfries & Galloway	Scotland	SCO	SCO	16.7	15.9	16.3	42	40	82	14	13	27	17	10
S12000008	East Ayrshire	Scotland	SCO	SCO	15.1	19.6	17.5	26	36	62	9	12	21	19	6
S12000010	East Lothian	Scotland	SCO	SCO	17.7	7.7	12.5	25	12	37	8	4	12	9	22
S12000011	East Renfrewshire	Scotland	SCO	SCO	10.1	16.0	13.4	12	22	34	4	7	11	10	32
S12000013	Eilean Siar	Scotland	SCO	SCO	20.3	18.4	19.3	9	8	17	3	3	6	27	9
S12000014	Falkirk	Scotland	SCO	SCO	19.3	19.1	19.2	41	43	84	14	14	28	26	16
S12000017	Highland	Scotland	SCO	SCO	15.5	13.4	14.4	55	50	105	18	17	35	12	19
S12000018	Inverclyde	Scotland	SCO	SCO	24.0	12.9	18.1	26	16	42	9	5	14	22	3
S12000019	Midlothian	Scotland	SCO	SCO	17.2	12.1	14.6	21	16	37	7	5	12	13	18
S12000020	Moray	Scotland	SCO	SCO	14.1	16.8	15.4	19	25	44	6	8	15	16	23
S12000021	North Ayrshire	Scotland	SCO	SCO	21.2	16.4	18.7	43	37	80	14	12	27	24	2
S12000023	Orkney Islands	Scotland	SCO	SCO	16.4	8.3	12.4	6	3	9	2	1	3	8	25
S12000026	Scottish Borders	Scotland	SCO	SCO	12.5	8.5	10.4	24	17	41	8	6	14	1	21
S12000027	Shetland Islands	Scotland	SCO	SCO	20.3	2.9	11.9	7	1	8	2	0	3	5	24
S12000028	South Ayrshire	Scotland	SCO	SCO	29.1	15.2	21.8	52	29	81	17	10	27	30	13
S12000029	South Lanarkshire	Scotland	SCO	SCO	21.0	16.9	18.9	91	78	169	30	26	56	25	11
S12000030	Stirling	Scotland	SCO	SCO	10.0	11.5	10.8	12	15	27	4	5	9	2	28
S12000033	Aberdeen City	Scotland	SCO	SCO	18.0	18.6	18.3	46	49	95	15	16	32	23	26
S12000034	Aberdeenshire	Scotland	SCO	SCO	23.1	12.2	17.6	83	45	128	28	15	43	20	29
S12000035	Argyll & Bute	Scotland	SCO	SCO	13.8	9.5	11.6	20	15	35	7	5	12	3	15
S12000036	City of Edinburgh	Scotland	SCO	SCO	16.9	13.1	14.9	90	76	166	30	25	55	15	30
S12000038	Renfrewshire	Scotland	SCO	SCO	26.1	14.6	20.0	59	37	96	20	12	32	28	12
S12000039	West Dunbartonshire	Scotland	SCO	SCO	14.1	14.5	14.3	17	19	36	6	6	12	11	1
S12000040	West Lothian	Scotland	SCO	SCO	19.8	14.3	16.9	44	35	79	15	12	26	18	17
S12000041	Angus	Scotland	SCO	SCO	13.4	10.1	11.7	24	19	43	8	6	14	4	20
S12000042	Dundee City	Scotland	SCO	SCO	19.4	16.5	17.8	33	31	64	11	10	21	21	7
S12000045	East Dunbartonshire	Scotland	SCO	SCO	13.9	10.4	12.0	21	18	39	7	6	13	6	31
S12000047	Fife	Scotland	SCO	SCO	17.2	12.6	14.8	90	70	160	30	23	53	14	14

Table 1.31 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2016/18

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					UNDER 75												
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2016/18			Average number of annual stroke (CBVD) deaths for 2016/18			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1 = most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
S12000048	Perth & Kinross		Scotland	SCO	10.5	13.5	12.1	24	32	56	8	11	19	7	27		
S12000049	Glasgow City		Scotland	SCO	31.8	23.5	27.5	202	159	361	67	53	120	32	4		
S12000050	North Lanarkshire		Scotland	SCO	25.6	16.2	20.6	106	76	182	35	25	61	29	5		
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL				9	19	33	3	6	11		11		
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL				34	21	55	11	7	18		17		
W06000003	Conwy	Clwyd	Wales / Cymru	WAL				19	25	47	6	8	16		14		
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL				22	21	45	7	7	15		9		
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL				31	23	57	10	8	19		18		
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL				21	18	47	7	6	16		16		
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL				24	8	30	8	3	10		20		
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL				27	16	48	9	5	16		13		
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL				59	38	97	20	13	32		10		
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannr	Wales / Cymru	WAL				52	44	96	17	15	32		12		
W06000012	Neath Port Talbot / Castell-nedd Port Talbo	West Glamorgan / Gorllewin Morgannr	Wales / Cymru	WAL				21	32	57	7	11	19		3		
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				31	31	68	10	10	23		8		
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL				33	29	58	11	10	19		19		
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL				70	41	111	23	14	37		15		
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				61	54	115	20	18	38		4		
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL				44	37	84	15	12	28		5		
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL				12	13	29	4	4	10		1		
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL				12	11	33	4	4	11		6		
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL				18	10	36	6	3	12		22		
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL				39	28	65	13	9	22		7		
W06000023	Powys	Powys	Wales / Cymru	WAL				29	28	55	10	9	18		21		
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL				11	13	20	4	4	7		2		

Notes: ICD-10 codes I60-I69. Directly standardised using the 2013 European Standard Population.
 - Indicates number of deaths considered too small to calculate rate. For England and Wales, some data are suppressed at local level, which means there may be a significant margin of error
 Average IMD ranks for Scotland, Wales, and Northern Ireland calculated in line with methodology for used for England

Source: England: Number of Deaths are taken from NOMIS Mortality Statistics. Mortality rates from Public Health England Public Health Profiles <https://fingertips.phe.org.uk/profile/mortality-profile>
 Wales: Number of Deaths are taken from NOMIS Mortality Statistics. Mortality rates not accessible at time of publication. NOMIS <https://www.nomisweb.co.uk/articles/983.aspx>
 Scotland: Mortality rates calculated in partnership with the General Register Office for Scotland.
 Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.
 England: Average IMD ranks taken from English Indices of Deprivation <https://www.gov.uk/government/statistics/english-indices-of-deprivation-2019>
 Wales: Average IMD ranks calculated from Welsh Index of Multiple Deprivation <https://stats.wales.gov.wales/Catalogue/Community-Safety-and-Social-Inclusion/Welsh-Index-of-Multiple-Deprivation>
 Scotland: Average IMD ranks calculated from Scottish Index of Multiple Deprivation <https://www.gov.scot/collections/scottish-index-of-multiple-deprivation-2020/>
 Northern Ireland: Average IMD ranks calculated from Northern Ireland Multiple Deprivation Measures <https://www.nisra.gov.uk/statistics/deprivation>

Table 1.32 Deaths and mortality rates for cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), 2017

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Region	Country	CVD Deaths 2017 estimate	CVD Death Rate (ASDR) 2017	CVD % All Deaths 2017	CHD Deaths 2017 estimate	CHD Death Rate (ASDR) 2017	CHD % All Deaths 2017	Stroke Deaths 2017 estimate	Stroke Death Rate (ASDR) 2017	Stroke % All Deaths 2017
GLOBAL		17,790,949	233	32%	8,930,369	117	16%	6,167,292	80	11%
EUROPE		3,794,037	223	43%	2,110,562	124	24%	1,016,403	59	12%
	Austria	31,386	145	39%	17,727	82	22%	4,856	23	6%
	Belgium	32,194	115	30%	15,424	56	14%	8,229	29	8%
	Czech Republic	48,960	227	44%	31,725	147	29%	10,484	48	9%
	Denmark	14,525	115	27%	6,919	55	13%	4,083	32	8%
	Finland	21,359	154	39%	12,430	89	23%	4,572	33	8%
	France	155,683	86	27%	68,363	38	12%	38,761	21	7%
	Germany	356,362	156	38%	192,865	85	20%	65,550	29	7%
	Greece	50,895	176	42%	25,725	92	21%	16,860	55	14%
	Hungary	57,212	278	47%	34,166	165	28%	11,766	57	10%
	Ireland	9,681	126	31%	5,421	71	18%	2,152	28	7%
	Italy	216,585	113	35%	96,461	51	16%	59,355	30	10%
	Netherlands	40,564	109	27%	18,265	50	12%	10,938	29	7%
	Norway	12,886	114	31%	6,540	58	16%	3,196	28	8%
	Poland	168,709	227	43%	97,690	131	25%	39,301	53	10%
	Portugal	36,943	128	32%	13,761	48	12%	15,821	54	14%
	Romania	144,849	371	55%	67,531	174	26%	49,806	125	19%
	Russian Federation	1,000,223	431	55%	562,921	241	31%	317,548	135	17%
	Spain	123,577	99	30%	55,234	45	13%	32,382	25	8%
	Sweden	34,164	134	37%	18,317	72	20%	7,623	30	8%
	Switzerland	21,280	100	33%	11,360	53	18%	4,193	20	6%
	Ukraine	427,321	540	62%	309,604	386	45%	87,402	110	13%
	United Kingdom **	176,516	122	29%	87,019	61	14%	47,022	31	8%
	England **	144,640	119	29%	70,868	59	14%	37,761	30	8%
	Scotland **	17,376	147	30%	8,735	75	15%	5,329	43	9%
	Wales **	9,935	131	30%	5,022	68	15%	2,644	33	8%
	Northern Ireland **	4,564	126	29%	2,395	67	15%	1,288	34	8%
NORTH AMERICA		983,293	146	31%	581,645	86	19%	190,422	28	6%
	Canada	80,838	106	29%	48,381	63	17%	18,061	23	6%
	United States	902,270	151	32%	533,166	89	19%	172,322	29	6%
LATIN AMERICA & CARIBBEAN		915,517	167	27%	477,308	87	14%	258,897	47	8%
	Brazil	388,268	178	29%	175,792	80	13%	122,783	57	9%
ASIA		10,450,857	251	33%	4,929,141	118	16%	4,181,666	100	13%
	China	4,377,972	262	42%	1,750,038	107	17%	2,109,772	122	20%
	India	2,632,780	282	27%	1,540,328	165	16%	726,231	77	7%
	Japan	368,091	79	27%	151,053	33	11%	139,999	30	10%
	Turkey	146,584	171	36%	84,450	98	21%	38,013	45	9%
	United Arab Emirates	7,347	318	28%	4,254	180	16%	1,949	93	7%
AFRICA		1,421,120	289	16%	728,511	151	8%	444,811	91	5%
	South Africa	76,671	200	16%	31,899	83	7%	25,034	66	5%
AUSTRALASIA		62,998	111	31%	33,667	60	17%	14,955	26	7%
	Australia	52,101	108	30%	27,696	57	16%	12,507	25	7%
	New Zealand	10,898	129	33%	5,971	71	18%	2,448	28	8%

Notes: ** UK and 4N death totals and rates shown here are modelled estimates which should be used solely for international comparisons.

Actual annual numbers of UK deaths from official statistical agencies are shown in table 1.2

ASDR = Age-standardised death rates per 100,000 inhabitants

ICD-10 codes for Cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for Coronary Heart disease (CHD) I20-I25.9

ICD-10 codes for Stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Regions and Countries as defined by the Global Health Data Exchange

<http://ghdx.healthdata.org/countries>

Source: Global Health Data Exchange, GBD Results Tool

<http://ghdx.healthdata.org/gbd-results-tool>

Table 1.33 Years of life lost (YLLs) and disability-adjusted life years (DALYs) for CVD, CHD, and stroke, 2017

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Region	Country	YLLs CVD A/S 2017 estimate	YLLs CHD A/S 2017 estimate	YLLs Stroke A/S 2017 estimate	DALYs CVD A/S 2017	DALYs CHD A/S 2017	DALYs Stroke A/S 2017
GLOBAL		4,148	2,066	1,422	4,598	2,132	1,657
EUROPE		3,718	2,028	933	4,171	2,106	1,145
	Austria	1,862	1,073	298	2,269	1,134	445
	Belgium	1,588	802	389	2,001	860	526
	Czech Republic	3,150	1,964	635	3,803	2,088	905
	Denmark	1,540	733	423	1,884	785	562
	Finland	2,170	1,214	440	2,564	1,286	607
	France	1,204	549	295	1,595	598	420
	Germany	2,171	1,182	393	2,570	1,242	543
	Greece	2,641	1,520	704	3,001	1,585	851
	Hungary	4,348	2,498	907	4,950	2,621	1,200
	Ireland	1,723	991	345	2,075	1,050	481
	Italy	1,449	690	369	1,764	749	458
	Netherlands	1,460	684	377	1,804	741	520
	Norway	1,486	784	344	1,846	835	531
	Poland	3,508	1,939	842	4,072	2,048	1,093
	Portugal	1,734	684	688	2,072	730	824
	Romania	5,657	2,624	1,866	6,265	2,733	2,211
	Russian Federation	7,697	4,051	2,156	8,259	4,156	2,511
	Spain	1,409	680	328	1,746	731	464
	Sweden	1,719	946	360	2,152	1,033	518
	Switzerland	1,194	648	223	1,505	700	338
	Ukraine	9,488	6,285	1,956	10,051	6,400	2,312
	United Kingdom	1,847	969	415	2,202	1,022	548
	England	1,787	928	396	2,140	981	524
	Scotland	2,303	1,253	574	2,671	1,308	748
	Wales	2,040	1,110	450	2,405	1,168	597
	Northern Ireland	1,878	1,042	440	2,236	1,105	583
NORTH AMERICA		2,471	1,419	439	2,918	1,463	671
	Canada	1,566	947	308	1,978	992	492
	United States	2,579	1,476	454	3,030	1,519	692
LATIN AMERICA & CARIBBEAN		3,015	1,535	858	3,360	1,611	957
	Brazil	3,374	1,526	1,032	3,735	1,602	1,145
ASIA		4,485	2,141	1,745	4,945	2,204	2,012
	China	4,026	1,573	1,968	4,576	1,628	2,342
	India	5,475	3,223	1,459	5,804	3,291	1,592
	Japan	1,226	513	456	1,619	555	684
	Turkey	2,981	1,730	751	3,418	1,807	954
	United Arab Emirates	5,580	3,187	1,561	6,084	3,272	1,856
AFRICA		5,168	2,636	1,612	5,569	2,713	1,781
	South Africa	3,426	1,411	1,094	3,797	1,484	1,254
AUSTRALASIA		1,538	837	319	1,845	885	437
	Australia	1,477	801	309	1,783	848	428
	New Zealand	1,863	1,026	370	2,175	1,082	489

Notes: YLLs refers to 'Years of Life Lost'. This is the estimated number of years of life that are lost due to premature mortality.
DALYs refers to 'Disability-Adjusted Life Years'. This is the sum of years lost due to premature death (YLLs) and years lived with disability (YLDs).
DALYs are also defined as years of healthy life lost.

A/S = estimated age-standardised rates per 100,000 inhabitants.

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9

ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Regions and countries as defined by the Global Health Data Exchange

<http://ghdx.healthdata.org/countries>

Source: Global Health Data Exchange, GBD Results Tool

<http://ghdx.healthdata.org/gbd-results-tool>



bhf.org.uk/statistics

Heart and Circulatory Disease Statistics 2020 - Chapter 2a - Morbidity - Incidence (Admissions, Episodes, New Cases)

INCIDENCE - HOSPITAL ADMISSIONS

[T2.1](#) Inpatient admissions by main diagnosis in NHS hospitals, by gender, England, Scotland, Wales, Northern Ireland and United Kingdom 2018/19

TRENDS IN INCIDENCE - HOSPITAL ADMISSIONS

[T2.2a](#) All inpatient admissions by main diagnosis, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2018/19

[T2.2b](#) Inpatient admissions by main diagnosis for men, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2018/19

[T2.2c](#) Inpatient admissions by main diagnosis for women, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2018/19

INCIDENCE - HOSPITAL EPISODES

[T2.3](#) Inpatient episodes by main diagnosis in NHS hospitals, by gender, England, Scotland, Wales, Northern Ireland and United Kingdom 2018/19

TRENDS IN INCIDENCE - HOSPITAL EPISODES

[T2.4a](#) All inpatient episodes by main diagnosis, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2018/19

[T2.4b](#) Inpatient episodes by main diagnosis for men, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2018/19

[T2.4c](#) Inpatient episodes by main diagnosis for women, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2018/19

TRENDS IN INCIDENCE - NEW CASES

[T2.5](#) Incidence of selected heart and circulatory diseases (CVD) in the UK, by age group and gender, 2005-2017

[T2.6](#) Incidence of selected heart and circulatory diseases (CVD), in each UK nation, by gender, 2005-2017

[T2.7](#) Incidence of coronary heart disease (CHD) in the UK, by age group and gender, 2005-2017

[T2.8](#) Incidence of coronary heart disease (CHD), in each UK nation, by gender, 2005-2017

[T2.9](#) Incidence of myocardial infarction (MI) in the UK, by age group and gender, 2005-2017

[T2.10](#) Incidence of myocardial infarction (MI) in each UK nation, by gender, 2005-2017

[T2.11](#) Incidence of atrial fibrillation (AF) in the UK, by age group and gender, 2005-2017

[T2.12](#) Incidence of atrial fibrillation (AF), in each UK nation, by gender, 2005-2017

[T2.13](#) Incidence of heart failure (HF) in the UK, by age group and gender, 2005-2017

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[T2.15](#) Incidence of stroke/TIA in the UK, by age group and gender, 2005-2017

[T2.16](#) Incidence of stroke/TIA in each UK nation, by gender, 2005-2017

[T2.17](#) Incidence of peripheral vascular disease (PVD) in the UK, by age group and gender, 2005-2017

[T2.18](#) Incidence of peripheral vascular disease (PVD) in each UK nation, by gender, 2005-2017

GLOBAL INCIDENCE

[T2.19](#) Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) by UK nation and English region, 2017

[T2.20](#) Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations 2017

Table 2.1 Inpatient admissions by main diagnosis in National Health Service hospitals by gender, England, Scotland, Wales, Northern Ireland and United Kingdom 2018/19

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	England 2018/19		Scotland 2018/19		Wales 2018/19		Northern Ireland 2018/19		United Kingdom, 2018/19		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Both
All diagnoses	7,771,800	9,352,200	579,460	638,704	391,668	485,656	271,100	266,500	9,014,028	10,743,060	19,757,088
All heart and circulatory diseases (C38.0, F01, G45, I00-I99, P29, Q20-Q28)	569,960	426,620	49,832	38,380	29,624	21,900	19,780	14,110	669,196	501,010	1,170,206
Diseases of the circulatory system (I00-I99)	544,900	402,300	47,567	36,192	28,594	20,796	19,300	13,700	640,361	472,988	1,113,349
Coronary heart disease (I20-I25)	174,600	86,500	16,122	8,545	9,204	4,548	8,400	3,600	208,326	103,193	311,519
Angina pectoris (I20)	29,200	18,200	2,832	1,819	1,271	816	940	500	34,243	21,335	55,578
Myocardial infarction (I21-I22)	52,800	28,400	6,723	3,860	3,276	1,704	2,900	1,300	65,699	35,264	100,963
Stroke (I60-I69)	57,000	54,100	6,143	5,905	3,773	3,631	630	680	67,546	64,316	131,862
Atrial fibrillation (I48)	63,200	52,100	5,242	4,545	3,294	2,526	2,100	1,700	73,836	60,871	134,707
Heart failure (I50)	46,700	39,800	4,051	3,652	2,455	2,080	1,600	1,600	54,806	47,132	101,938
Other cardiovascular disease	203,400	169,800	16,009	13,545	9,868	8,011	6,570	6,120	235,847	197,476	433,323
Malignant neoplasm: Heart (C38.0)	60	20	26	3	1	0			87	23	110
Vascular dementia (F01)	1,800	1,700	180	199	247	227	20	10	2,247	2,136	4,383
Transient cerebral ischaemic attacks and related syndromes (G45)	10,000	10,800	1,453	1,436	599	694	110	130	12,162	13,060	25,222
Cardiovascular disorders originating in the perinatal period (P29)	2,100	1,900	*	0	0	1	70	40	2,170	1,941	4,111
Congenital malformations of the circulatory system (Q20-Q28)	11,100	9,900	606	550	183	182	280	230	12,169	10,862	23,031
Diabetes (E10-E14)	32,300	24,600	3,153	2,522	1,678	1,497	890	800	38,021	29,419	
Obesity (E66)	3,000	8,300	85	186	38	86	10	20	3,133	8,592	
All cancer (C00-D48)	1,039,900	1,049,900	87,341	101,367	34,931	30,331	36,000	39,500	1,198,172	1,221,098	
All diseases of the nervous system (G00-G99)	171,500	205,100	13,717	17,736	6,984	9,850	3,300	4,600	195,501	237,286	
All diseases of the respiratory system (J00-J99)	539,300	555,100	48,393	52,638	33,838	34,174	16,500	17,700	638,031	659,612	
All diseases of the digestive system (K00-K93)	1,119,400	1,139,400	80,151	82,505	49,415	51,634	34,000	34,000	1,282,966	1,307,539	
All diseases of the genitourinary system (N00-N99)	403,500	527,400	32,428	42,762	22,957	28,690	61,900	52,900	520,785	651,752	
Injury and poisoning (S00-T98)	527,000	539,600	52,120	50,732	27,715	27,421	14,500	14,600	621,335	632,353	
All other diagnoses	3,365,940	4,876,180	212,240	249,876	184,488	280,073	84,210	88,270	3,846,878	5,494,399	

Notes:

Finished consultant episodes (FCE); ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.

For England and Northern Ireland, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred, or nearest ten if the figure is less than one thousand.

'Other cardiovascular disease' refers to I00-I99 minus the sum of I20-I25, I60-I69, I48 and I50

* indicates values have been suppressed.

Source:

NHS Digital (2019). Hospital Episode Statistics 2018/19.

<https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/2018-19>

Information Services Division Scotland (2020) Main diagnosis discharges from hospital 2018/19. Personal correspondence.

NHS Wales Informatics Service (2020). The Patient Episode Database for Wales- 2018/19.

www.infoandstats.wales.nhs.uk

Hospital Information Branch (2020). Northern Ireland Episode Based Inpatient and Day Case Activity Data (2018/19)

<https://www.health-ni.gov.uk/articles/episode-based-activity>

Table 2.2a All inpatient admissions by main diagnosis in NHS hospitals, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2018/19

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ALL		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
England	Heart and circulatory diseases (CVD) (I00-I99)			897,843	917,317	925,007	936,007	941,880	930,641	944,753	962,129	994,450	918,298	925,576	947,200
	Coronary heart disease (I20-I25)			305,988	300,164	285,426	279,923	280,794	276,762	273,873	269,116	267,016	266,725	263,656	261,100
	<i>Myocardial infarction (I21-I22)</i>			77,055	74,230	69,919	62,268	64,088	76,245	78,174	78,278	79,795	80,621	81,637	81,200
	Atrial fibrillation (I48)			85,610	88,469	91,782	94,450	96,065	98,169	100,616	102,202	107,513	109,092	109,564	115,300
	Heart Failure (I50)			58,582	57,916	58,513	59,221	60,419	62,378	64,200	70,143	76,994	80,603	84,776	86,500
	Stroke (I60-I69)			93,136	95,841	101,319	104,475	106,516	107,412	106,531	107,279	108,940	107,828	109,124	111,100
	Other cardiovascular disease			354,527	374,927	387,967	397,938	398,086	385,920	399,533	413,389	433,987	354,050	358,456	373,200
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				94,096	91,714	91,518	91,688	90,765	91,252	89,884	90,805	84,036	83,624	83,759
	Coronary heart disease (I20-I25)				28,645	26,689	27,331	27,156	26,129	25,943	24,854	24,100	24,417	24,245	24,667
	<i>Myocardial infarction (I21-I22)</i>				9,540	9,927	10,980	11,387	11,224	11,095	10,694	10,437	10,651	10,559	10,583
	Atrial fibrillation (I48)				8,821	8,724	9,203	9,304	9,192	9,449	9,450	9,667	9,548	9,666	9,787
	Heart Failure (I50)				7,245	6,992	7,058	7,268	7,056	6,965	6,946	7,430	7,627	7,677	7,703
	Stroke (I60-I69)				11,536	11,650	11,327	11,357	11,369	11,251	11,607	11,806	11,859	11,845	12,048
	Other cardiovascular disease				37,849	37,659	36,599	36,603	37,019	37,644	37,027	37,802	30,585	30,191	29,554
Wales	Heart and circulatory diseases (CVD) (I00-I99)	54,249	54,906	55,272	56,997	56,032	55,059	53,577	52,671	53,665	52,852	53,087	49,424	46,917	49,390
	Coronary heart disease (I20-I25)	17,428	17,990	17,945	17,913	16,811	16,325	15,601	14,961	14,646	13,969	14,338	13,873	13,262	13,752
	<i>Myocardial infarction (I21-I22)</i>	5,328	5,243	5,088	5,248	4,572	4,256	4,110	4,537	4,745	4,623	5,325	5,230	5,249	4,980
	Atrial fibrillation (I48)	4,969	4,880	5,019	4,919	5,097	5,389	5,418	5,505	5,691	5,577	5,642	5,884	5,450	5,820
	Heart Failure (I50)	5,022	4,576	4,645	4,711	4,390	4,685	4,447	4,609	4,494	4,564	4,443	4,634	4,387	4,535
	Stroke (I60-I69)	7,305	6,912	6,908	7,509	7,089	7,284	7,239	7,182	7,531	7,492	7,548	7,484	7,167	7,404
	Other cardiovascular disease	19,525	20,548	20,755	21,945	22,645	21,376	20,872	20,414	21,303	21,250	21,116	17,549	16,651	17,879
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)							39,000	35,700	36,800	35,800	34,700	32,800	32,100	33,000
	Coronary heart disease (I20-I25)							12,300	12,700	13,700	13,000	12,700	12,100	11,600	12,000
	<i>Myocardial infarction (I21-I22)</i>							2,600	3,600	4,100	4,100	4,300	4,500	4,400	4,200
	Atrial fibrillation (I48)							4,000	3,900	3,800	3,800	4,300	4,100	3,900	3,800
	Heart Failure (I50)							2,400	2,700	2,800	2,800	2,800	2,900	3,000	3,200
	Stroke (I60-I69)							2,200	2,000	2,200	1,660	1,450	1,400	1,420	1,310
	Other cardiovascular disease							18,100	14,400	14,300	14,540	13,450	12,300	12,180	12,690
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)							1,126,145	1,109,777	1,126,470	1,140,665	1,173,042	1,084,558	1,088,217	1,113,349
	Coronary heart disease (I20-I25)							335,851	330,552	328,162	320,939	318,154	317,115	312,763	311,519
	<i>Myocardial infarction (I21-I22)</i>							82,185	95,606	98,114	97,695	99,857	101,002	101,845	100,963
	Atrial fibrillation (I48)							114,787	116,766	119,556	121,029	127,122	128,624	128,580	134,707
	Heart Failure (I50)							74,534	76,743	78,459	84,453	91,667	95,764	99,840	101,938
	Stroke (I60-I69)							127,312	127,963	127,513	128,038	129,744	128,571	129,556	131,862
	Other cardiovascular disease							473,661	457,753	472,780	486,206	506,355	414,484	417,478	433,323

Notes: Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.
For England 2018/19 data, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred, or nearest ten if the figure is less than one thousand.
For Northern Ireland, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred, or nearest ten if the figure is less than one thousand.
'Other cardiovascular disease' refers to I00-I99 minus the sum of I20-I25, I60-I69, I48 and I50

Source: England 2007/08 to 2017/18 figures from CLAHRC West Midlands Secondary Care Data
NHS Digital (2019). Hospital Episode Statistics 2018/19. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>
Information Services Division Scotland (2020) Main diagnosis discharges from hospital 2018/19. Personal correspondence.
NHS Wales Informatics Service (2020). The Patient Episode Database for Wales- 2018/19. www.infoandstats.wales.nhs.uk
Hospital Information Branch (2020). Northern Ireland Episode Based Inpatient and Day Case Activity Data (2018/19) www.health-ni.gov.uk/articles/episode-based-activity

Table 2.2b All inpatient admissions by main diagnosis in NHS hospitals in men, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2018/19

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MEN		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
England	Heart and circulatory diseases (CVD) (I00-I99)			511,764	523,983	527,642	533,919	541,347	537,238	544,696	552,169	571,702	535,797	541,917	544,900
	Coronary heart disease (I20-I25)			202,280	199,223	190,610	186,653	187,500	186,072	185,057	182,029	180,959	180,900	179,630	174,600
	<i>Myocardial infarction (I21-I22)</i>			49,467	47,414	44,858	39,442	40,682	49,433	51,347	51,398	52,530	53,484	54,367	52,800
	Atrial fibrillation (I48)			47,895	49,597	51,582	53,425	54,258	55,605	56,502	57,671	61,458	62,380	62,583	63,200
	Heart Failure (I50)			30,253	29,935	30,525	30,885	32,048	33,015	34,196	37,632	41,603	43,808	46,679	46,700
	Stroke (I60-I69)			45,374	47,147	49,793	51,973	53,191	53,905	53,485	54,384	55,875	55,472	56,294	57,000
	Other cardiovascular disease			185,962	198,081	205,132	210,983	214,350	208,641	215,456	220,453	231,807	193,237	196,731	203,400
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				51,133	49,884	50,254	50,482	50,332	50,212	49,890	50,487	47,651	47,249	47,567
	Coronary heart disease (I20-I25)				18,017	16,915	17,374	17,327	16,797	16,474	16,078	15,579	15,989	15,745	16,122
	<i>Myocardial infarction (I21-I22)</i>				5,936	6,175	6,762	7,097	7,021	6,856	6,744	6,593	6,782	6,668	6,723
	Atrial fibrillation (I48)				4,698	4,682	4,899	4,961	4,998	4,965	4,984	5,090	5,045	5,153	5,242
	Heart Failure (I50)				3,839	3,668	3,758	3,806	3,759	3,745	3,757	4,031	4,092	4,124	4,051
	Stroke (I60-I69)				5,556	5,637	5,453	5,514	5,612	5,495	5,725	5,893	6,008	5,870	6,143
	Other cardiovascular disease				19,023	18,982	18,770	18,874	19,166	19,533	19,346	19,894	16,517	16,357	16,009
Wales	Heart and circulatory diseases (CVD) (I00-I99)	29,514	30,090	30,362	31,302	30,880	30,541	29,897	29,697	30,096	29,724	29,678	28,471	26,695	28,594
	Coronary heart disease (I20-I25)	10,910	11,320	11,432	11,515	10,901	10,648	10,158	9,759	9,604	9,244	9,316	9,145	8,720	9,204
	<i>Myocardial infarction (I21-I22)</i>	3,218	3,194	3,100	3,248	2,861	2,641	2,554	2,844	3,041	3,014	3,431	3,368	3,413	3,276
	Atrial fibrillation (I48)	2,570	2,505	2,635	2,585	2,684	2,861	2,915	2,995	3,103	3,063	3,025	3,283	2,973	3,294
	Heart Failure (I50)	2,586	2,306	2,277	2,432	2,269	2,419	2,357	2,493	2,360	2,402	2,298	2,502	2,317	2,455
	Stroke (I60-I69)	3,386	3,384	3,244	3,478	3,416	3,568	3,430	3,425	3,742	3,629	3,672	3,809	3,621	3,773
	Other cardiovascular disease	10,062	10,575	10,774	11,292	11,610	11,045	11,037	11,025	11,287	11,386	11,367	9,732	9,064	9,868
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)							22,200	20,100	21,300	20,700	20,200	19,100	18,700	19,300
	Coronary heart disease (I20-I25)							8,300	8,600	9,500	9,000	8,800	8,300	8,100	8,400
	<i>Myocardial infarction (I21-I22)</i>							1,600	2,300	2,700	2,700	2,800	3,000	3,000	2,900
	Atrial fibrillation (I48)							2,300	2,100	2,100	2,200	2,400	2,300	2,200	2,100
	Heart Failure (I50)							1,100	1,300	1,400	1,400	1,400	1,400	1,500	1,600
	Stroke (I60-I69)							1,100	1,000	1,100	830	740	660	680	630
	Other cardiovascular disease							9,400	7,100	7,200	7,270	6,860	6,440	6,220	6,570
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)							643,926	637,367	646,304	652,483	672,067	631,019	634,561	640,361
	Coronary heart disease (I20-I25)							223,285	221,228	220,635	216,351	214,654	214,334	212,195	208,326
	<i>Myocardial infarction (I21-I22)</i>							51,933	61,598	63,944	63,856	65,354	66,634	67,448	65,699
	Atrial fibrillation (I48)							64,434	65,698	66,670	67,918	71,973	73,008	72,909	73,836
	Heart Failure (I50)							39,311	40,567	41,701	45,191	49,332	51,802	54,620	54,806
	Stroke (I60-I69)							63,235	63,942	63,822	64,568	66,180	65,949	66,465	67,546
	Other cardiovascular disease							253,661	245,932	253,476	258,455	269,928	225,926	228,372	235,847

Notes:

Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.

For England 2018/19 data, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred, or nearest ten if the figure is less than one thousand.

For Northern Ireland, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred, or nearest ten if the figure is less than one thousand.

'Other cardiovascular disease' refers to I00-I99 minus the sum of I20-I25, I60-I69, I48 and I50

Source:

England 2007/08 to 2017/18 figures from CLAHRC West Midlands Secondary Care Data

NHS Digital (2019). Hospital Episode Statistics 2018/19.

<https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>

Information Services Division Scotland (2020) Main diagnosis discharges from hospital 2018/19. Personal correspondence.

NHS Wales Informatics Service (2020). The Patient Episode Database for Wales- 2018/19.

www.infoandstats.wales.nhs.uk

Table 2.2c Inpatient admissions by main diagnosis in NHS hospitals in women, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2018/19

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WOMEN		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
England	Heart and circulatory diseases (CVD) (I00-I99)			386,079	393,334	397,365	402,088	400,533	393,403	400,057	409,960	422,748	382,501	383,659	402,300
	Coronary heart disease (I20-I25)			103,708	100,941	94,816	93,270	93,294	90,690	88,816	87,087	86,057	85,825	84,026	86,500
	<i>Myocardial infarction (I21-I22)</i>			27,588	26,816	25,061	22,826	23,406	26,812	26,827	26,880	27,265	27,137	27,270	28,400
	Atrial fibrillation (I48)			37,715	38,872	40,200	41,025	41,807	42,564	44,114	44,531	46,055	46,712	46,981	52,100
	Heart Failure (I50)			28,329	27,981	27,988	28,336	28,371	29,363	30,004	32,511	35,391	36,795	38,097	39,800
	Stroke (I60-I69)			47,762	48,694	51,526	52,502	53,325	53,507	53,046	52,895	53,065	52,356	52,830	54,100
	Other cardiovascular disease			168,565	176,846	182,835	186,955	183,736	177,279	184,077	192,936	202,180	160,813	161,725	169,800
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				42,963	41,830	41,264	41,206	40,433	41,040	39,994	40,318	36,385	36,375	36,192
	Coronary heart disease (I20-I25)				10,628	9,774	9,957	9,829	9,332	9,469	8,776	8,521	8,428	8,500	8,545
	<i>Myocardial infarction (I21-I22)</i>				3,604	3,752	4,218	4,290	4,203	4,239	3,950	3,844	3,869	3,891	3,860
	Atrial fibrillation (I48)				4,123	4,042	4,304	4,343	4,194	4,484	4,466	4,577	4,503	4,513	4,545
	Heart Failure (I50)				3,406	3,324	3,300	3,462	3,297	3,220	3,189	3,399	3,535	3,553	3,652
	Stroke (I60-I69)				5,980	6,013	5,874	5,843	5,757	5,756	5,882	5,913	5,851	5,975	5,905
	Other cardiovascular disease				18,826	18,677	17,829	17,729	17,853	18,111	17,681	17,908	14,068	13,834	13,545
Wales	Heart and circulatory diseases (CVD) (I00-I99)	24,735	24,816	24,910	25,695	25,152	24,518	23,680	22,974	23,569	23,128	23,409	20,953	20,222	20,796
	Coronary heart disease (I20-I25)	6,518	6,670	6,513	6,398	5,910	5,677	5,443	5,202	5,042	4,725	5,022	4,728	4,542	4,548
	<i>Myocardial infarction (I21-I22)</i>	2,110	2,049	1,988	2,000	1,711	1,615	1,556	1,693	1,704	1,609	1,894	1,862	1,836	1,704
	Atrial fibrillation (I48)	2,399	2,375	2,384	2,334	2,413	2,528	2,503	2,510	2,588	2,514	2,617	2,601	2,477	2,526
	Heart Failure (I50)	2,436	2,270	2,368	2,279	2,121	2,266	2,090	2,116	2,134	2,162	2,145	2,132	2,070	2,080
	Stroke (I60-I69)	3,919	3,528	3,664	4,031	3,673	3,716	3,809	3,757	3,789	3,863	3,876	3,675	3,546	3,631
	Other cardiovascular disease	9,463	9,973	9,981	10,653	11,035	10,331	9,835	9,389	10,016	9,864	9,749	7,817	7,587	8,011
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)							16,800	15,600	15,500	15,100	14,500	13,700	13,400	13,700
	Coronary heart disease (I20-I25)							4,000	4,100	4,200	4,000	3,900	3,800	3,500	3,600
	<i>Myocardial infarction (I21-I22)</i>							1,000	1,300	1,400	1,400	1,500	1,500	1,400	1,300
	Atrial fibrillation (I48)							1,700	1,800	1,700	1,600	1,900	1,800	1,700	1,700
	Heart Failure (I50)							1,300	1,400	1,400	1,400	1,400	1,500	1,500	1,600
	Stroke (I60-I69)							1,100	1,000	1,100	830	710	740	740	680
	Other cardiovascular disease							8,700	7,300	7,100	7,270	6,590	5,860	5,960	6,120
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)							482,219	472,410	480,166	488,182	500,975	453,539	453,656	472,988
	Coronary heart disease (I20-I25)							112,566	109,324	107,527	104,588	103,500	102,781	100,568	103,193
	<i>Myocardial infarction (I21-I22)</i>							30,252	34,008	34,170	33,839	34,503	34,368	34,397	35,264
	Atrial fibrillation (I48)							50,353	51,068	52,886	53,111	55,149	55,616	55,671	60,871
	Heart Failure (I50)							35,223	36,176	36,758	39,262	42,335	43,962	45,220	47,132
	Stroke (I60-I69)							64,077	64,021	63,691	63,470	63,564	62,622	63,091	64,316
	Other cardiovascular disease							220,000	211,821	219,304	227,751	236,427	188,558	189,106	197,476

Notes:

Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.

For England 2018/19 data, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred, or nearest ten if the figure is less than one thousand.

For Northern Ireland, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred, or nearest ten if the figure is less than one thousand.

'Other cardiovascular disease' refers to I00-I99 minus the sum of I20-I25, I60-I69, I48 and I50

Source:

England 2007/08 to 2017/18 figures from CLAHRC West Midlands Secondary Care Data

NHS Digital (2019). Hospital Episode Statistics 2018/19. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>

Information Services Division Scotland (2020) Main diagnosis discharges from hospital 2018/19. Personal correspondence.

NHS Wales Informatics Service (2020). The Patient Episode Database for Wales- 2018/19.

www.infoandstats.wales.nhs.uk

Table 2.3 Inpatient episodes by main diagnosis in National Health Service hospitals by gender, England, Scotland, Wales, Northern Ireland and United Kingdom 2018/19

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	England 2018/19		Scotland 2018/19		Wales 2018/19		Northern Ireland 2018/19		United Kingdom, 2018/19		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Both
All diagnoses	9,420,367	11,336,039	797,488	865,976	476,960	591,416	333,472	327,841	11,028,287	13,121,272	24,149,559
All heart and circulatory diseases (C38.0, F01, G45, I00-I99, P29, Q20-Q28)	899,690	672,986	98,799	75,641	49,016	36,535	27,591	19,742	1,075,096	804,904	1,880,000
Diseases of the circulatory system (I00-I99)	863,302	637,486	95,113	72,073	47,214	34,672	26,992	19,215	1,032,621	763,446	1,796,067
Coronary heart disease (I20-I25)	267,694	132,690	34,108	17,781	15,118	7,639	10,669	4,593	327,589	162,703	490,292
Angina pectoris (I20)	43,101	26,915	4,146	2,566	2,036	1,280	1,324	708	50,607	31,469	82,076
Myocardial infarction (I21-I22)	107,026	57,544	17,129	9,859	6,301	3,347	4,295	1,896	134,751	72,646	207,397
Stroke (I60-I69)	110,259	104,613	14,860	14,408	6,136	5,960	1,071	1,148	132,326	126,129	258,455
Atrial fibrillation (I48)	88,194	72,674	7,672	7,586	4,879	4,052	2,764	2,218	103,509	86,530	190,039
Heart failure (I50)	101,827	86,855	9,179	8,456	5,219	4,338	3,022	3,071	119,247	102,720	221,967
Other cardiovascular disease	295,328	240,654	29,294	23,842	15,862	12,683	9,466	8,185	349,950	285,364	635,314
Malignant neoplasm: Heart (C38.0)	77	20	28	6	2	0			107	26	133
Vascular dementia (F01)	4,133	3,975	375	402	384	375	38	27	4,930	4,779	9,709
Transient cerebral ischaemic attacks and related syndromes (G45)	14,415	15,499	2,238	2,257	830	951	183	208	17,666	18,915	36,581
Cardiovascular disorders originating in the perinatal period (P29)	2,441	2,263	*	0	30	36	73	43	2,544	2,342	4,886
Congenital malformations of the circulatory system (Q20-Q28)	15,322	13,743	1,045	903	556	501	305	249	17,228	15,396	32,624
Diabetes (E10-E14)	53,194	40,574	5,550	4,512	2,935	2,640	1,711	1,524	63,390	49,250	
Obesity (E66)	3,312	9,171	137	315	60	153	18	32	3,527	9,671	
All cancer (C00-D48)	1,130,886	1,141,779	103,253	116,985	42,425	37,916	38,548	42,283	1,315,112	1,338,963	
All diseases of the nervous system (G00-G99)	212,618	254,245	18,162	22,866	9,756	12,762	4,309	5,980	244,845	295,853	
All diseases of the respiratory system (J00-J99)	874,511	900,051	79,835	89,594	50,972	52,579	27,802	29,967	1,033,120	1,072,191	
All diseases of the digestive system (K00-K93)	1,298,216	1,321,495	99,355	101,785	61,546	63,517	41,710	41,796	1,500,827	1,528,593	
All diseases of the genitourinary system (N00-N99)	516,651	675,256	42,519	55,873	30,279	36,932	67,908	58,010	657,357	826,071	
Injury and poisoning (S00-T98)	664,400	680,190	71,977	74,512	34,319	34,526	21,014	21,044	791,710	810,272	
All other diagnoses	3,766,889	5,640,292	277,901	323,893	195,652	313,856	102,861	107,463	4,343,303	6,385,504	

Notes:

Finished consultant episodes (FCE); ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.

Differences between countries in the categorisation of episodes: in both England and Scotland, an FCE ends when the consultant changes.

However, in Scotland a change of sub-specialty results in a new FCE, whereas in England it does not, e.g. if a patient goes from a cardiac ward to an ITU and is still under the care of the same consultant, in England this would be counted as 1 FCE and in Scotland it would be counted as 2 FCE.

'Other cardiovascular disease' refers to I00-I99 minus the sum of I20-I25, I60-I69, I48 and I50

* indicates values have been suppressed.

Source:

NHS Digital (2019). Hospital Episode Statistics 2018/19.

<https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/2017-18>

Information Services Division Scotland (2020) Main diagnosis discharges from hospital 2018/19. Personal correspondence.

NHS Wales Informatics Service (2020). The Patient Episode Database for Wales- 2018/19.

www.infoandstats.wales.nhs.uk

Hospital Information Branch (2020). Northern Ireland Episode Based Inpatient and Day Case Activity Data (2018/19)

www.health-ni.gov.uk/publications/acute-episode-basec

Table 2.4a All inpatient episodes by main diagnosis in NHS hospitals, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2018/19

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ALL		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
England	Heart and circulatory diseases (CVD) (I00-I99)	1,244,004	1,255,590	1,274,674	1,322,295	1,358,247	1,371,809	1,381,635	1,374,094	1,401,232	1,423,319	1,480,320	1,418,802	1,448,856	1,500,788
	Coronary heart disease (I20-I25)	428,262	427,913	424,247	422,334	407,675	405,096	409,508	404,089	401,007	393,531	393,887	396,316	397,626	400,384
	Myocardial infarction (I21-I22)	135,705	137,163	134,066	132,787	129,346	120,892	123,786	143,532	148,259	148,460	154,857	159,085	163,090	164,570
	Atrial fibrillation (I48)	107,014	109,646	115,069	120,200	126,235	130,218	132,516	135,200	138,288	139,857	146,676	148,842	149,790	161,443
	Heart Failure (I50)	106,500	100,452	104,379	106,808	112,976	117,034	121,242	127,064	133,648	146,147	160,834	169,754	180,655	188,682
	Stroke (I60-I69)	178,321	176,452	179,999	190,101	203,705	198,335	194,436	196,081	197,356	197,793	203,582	205,680	210,932	214,872
	Other cardiovascular disease	423,907	441,127	450,980	482,852	507,656	521,126	523,933	511,660	530,933	545,991	575,341	498,210	509,853	535,407
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				147,639	146,240	150,067	150,110	150,995	159,078	160,765	169,385	165,918	164,966	167,186
	Coronary heart disease (I20-I25)				50,005	48,521	50,566	49,813	48,328	50,169	49,086	49,434	50,848	50,000	51,889
	Myocardial infarction (I21-I22)				19,496	21,290	24,386	25,275	25,213	26,661	25,868	26,462	26,927	25,808	26,988
	Atrial fibrillation (I48)				11,428	11,411	12,328	12,328	12,638	13,696	13,989	14,863	15,230	15,034	15,258
	Heart Failure (I50)				11,552	11,259	11,786	12,191	12,154	13,113	13,812	16,127	16,908	17,259	17,635
	Stroke (I60-I69)				22,189	22,686	22,885	22,950	24,136	25,453	27,278	28,379	29,410	29,447	29,268
	Other cardiovascular disease				52,465	52,363	52,502	52,828	53,739	56,647	56,600	60,582	53,522	53,226	53,136
Wales	Heart and circulatory diseases (CVD) (I00-I99)	80,376	81,064	82,372	84,850	88,015	87,329	88,026	87,336	88,470	84,580	85,589	79,167	77,493	81,886
	Coronary heart disease (I20-I25)	27,359	27,455	27,620	27,451	27,040	26,341	27,287	26,326	25,729	23,312	23,444	22,399	22,161	22,757
	Myocardial infarction (I21-I22)	9,089	8,953	8,946	8,869	8,640	7,970	7,709	9,031	9,731	8,688	9,960	9,844	10,053	9,648
	Atrial fibrillation (I48)	7,068	7,082	7,287	7,139	8,009	8,302	8,056	8,557	8,595	8,300	8,683	8,652	8,246	8,931
	Heart Failure (I50)	7,892	7,508	7,978	8,018	8,499	8,965	8,354	9,405	9,070	9,054	9,306	9,430	9,133	9,557
	Stroke (I60-I69)	12,132	11,873	11,919	13,020	13,247	12,913	12,338	13,012	13,323	12,589	12,454	11,648	11,501	12,096
	Other cardiovascular disease	25,925	27,146	27,568	29,222	31,220	30,808	31,991	30,036	31,753	31,325	31,702	27,038	26,452	28,545
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)						42,887	46,617	42,875	44,296	44,592	44,488	42,515	43,016	46,207
	Coronary heart disease (I20-I25)						14,409	14,060	14,520	15,378	15,014	14,963	14,262	14,158	15,262
	Myocardial infarction (I21-I22)							3,540	4,614	5,288	5,369	5,776	5,985	6,081	6,243
	Atrial fibrillation (I48)							4,490	4,518	4,410	4,478	5,205	4,859	4,824	4,982
	Heart Failure (I50)							3,660	4,131	4,360	4,731	5,011	4,990	5,427	6,093
	Stroke (I60-I69)						4,872	3,199	2,943	3,383	2,486	2,202	2,208	2,313	2,219
	Other cardiovascular disease							21,208	16,763	16,765	17,883	17,107	16,196	16,294	17,651
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)					1,652,092	1,666,388	1,655,300	1,693,076	1,713,256	1,779,782	1,706,402	1,734,331	1,796,067	
	Coronary heart disease (I20-I25)					496,412	500,668	493,263	492,283	480,943	481,728	483,825	483,945	490,292	
	Myocardial infarction (I21-I22)						160,310	182,390	189,939	188,385	197,055	201,841	205,032	207,449	
	Atrial fibrillation (I48)						157,390	160,913	164,989	166,624	175,427	177,583	177,894	190,614	
	Heart Failure (I50)						145,447	152,754	160,191	173,744	191,278	201,082	212,474	221,967	
	Stroke (I60-I69)					239,005	232,923	236,172	239,515	240,146	246,617	248,946	254,193	258,455	
	Other cardiovascular disease						629,960	612,198	636,098	651,799	684,732	594,966	605,825	634,739	

Notes: Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.

** Scotland - figures for 2012/13 to 2014/15 do not include subsequent myocardial infarction (I22)

'Other cardiovascular disease' refers to I00-I99 minus the sum of I20-I25, I60-I69, I48 and I50

Source: NHS Digital (2019). Hospital Episode Statistics. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>
Information Services Division Scotland (2020) Main diagnosis discharges from hospital. Personal correspondence.
NHS Wales Informatics Service (2020). The Patient Episode Database for Wales. www.infoandstats.wales.nhs.uk
Hospital Information Branch (2020). Northern Ireland Episode Based Inpatient and Day Case Activity Data www.health-ni.gov.uk/articles/episode-based-activity

Table 2.4b Inpatient episodes by main diagnosis in NHS hospitals in men, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2018/19

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MEN		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
England	Heart and circulatory diseases (CVD) (I00-I99)	694,974	705,822	715,200	741,384	759,672	767,889	779,921	777,888	793,952	804,412	838,567	811,101	831,328	863,302
	Coronary heart disease (I20-I25)	274,816	276,900	275,069	274,163	265,667	263,538	266,954	265,102	264,934	260,052	261,024	263,513	265,359	267,694
	Myocardial infarction (I21-I22)	83,953	85,707	83,648	82,027	79,963	73,861	75,600	89,924	94,323	94,566	99,026	102,729	105,637	107,026
	Atrial fibrillation (I48)	57,171	58,480	61,752	64,599	67,781	70,110	71,568	73,125	74,366	75,363	80,307	81,214	81,883	88,194
	Heart Failure (I50)	54,072	51,541	53,328	54,503	57,987	60,223	63,377	66,354	70,320	77,031	85,247	90,111	97,528	101,827
	Stroke (I60-I69)	85,041	84,271	86,372	91,363	97,878	96,364	95,294	96,502	97,593	98,597	102,188	103,758	106,514	110,259
	Other cardiovascular disease	223,874	234,630	238,679	256,756	270,359	277,654	282,728	276,805	286,739	293,369	309,801	272,505	280,044	295,328
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				82,266	81,442	83,985	83,946	85,126	88,575	90,271	95,117	94,095	93,102	95,113
	Coronary heart disease (I20-I25)				32,230	31,287	32,635	32,132	31,645	32,108	32,174	31,870	33,207	32,505	34,108
	Myocardial infarction (I21-I22)				12,313	13,353	15,115	15,743	16,008	16,558	16,397	16,490	16,933	16,109	17,129
	Atrial fibrillation (I48)				5,960	5,922	6,349	6,364	6,653	6,950	7,053	7,544	7,682	7,625	7,672
	Heart Failure (I50)				6,161	5,838	6,198	6,414	6,419	6,978	7,378	8,659	9,000	9,172	9,179
	Stroke (I60-I69)				10,738	11,044	11,063	11,057	11,802	12,321	13,364	14,090	14,705	14,395	14,860
	Other cardiovascular disease				27,177	27,351	27,740	27,979	28,607	30,218	30,302	32,954	29,501	29,405	29,294
Wales	Heart and circulatory diseases (CVD) (I00-I99)	44,120	44,579	45,358	46,968	48,335	48,180	48,765	49,222	49,888	47,606	47,867	45,283	43,930	47,214
	Coronary heart disease (I20-I25)	17,171	17,284	17,582	17,683	17,524	17,037	17,529	17,112	16,866	15,458	15,128	14,620	14,541	15,118
	Myocardial infarction (I21-I22)	5,396	5,352	5,352	5,401	5,354	4,867	4,617	5,606	6,194	5,619	6,338	6,255	6,482	6,301
	Atrial fibrillation (I48)	3,610	3,605	3,739	3,748	4,034	4,232	4,185	4,524	4,559	4,440	4,594	4,689	4,312	4,879
	Heart Failure (I50)	4,057	3,774	3,927	4,199	4,351	4,606	4,395	5,103	4,873	4,758	4,875	5,176	4,819	5,219
	Stroke (I60-I69)	5,724	5,793	5,625	6,088	6,184	6,045	5,389	6,134	6,617	6,009	5,961	5,960	5,834	6,136
	Other cardiovascular disease	13,558	14,123	14,485	15,250	16,242	16,260	17,267	16,349	16,973	16,941	17,309	14,838	14,424	15,862
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)						24,499	26,591	24,154	25,674	25,773	25,922	24,750	25,032	26,992
	Coronary heart disease (I20-I25)						9,800	9,521	9,846	10,697	10,418	10,386	9,798	9,863	10,669
	Myocardial infarction (I21-I22)							2,186	2,962	3,461	3,518	3,784	3,938	4,082	4,327
	Atrial fibrillation (I48)							2,605	2,410	2,458	2,559	2,876	2,777	2,702	2,764
	Heart Failure (I50)							1,702	1,977	2,175	2,382	2,522	2,397	2,725	3,022
	Stroke (I60-I69)						2,485	1,628	1,437	1,742	1,242	1,126	1,039	1,108	1,071
	Other cardiovascular disease							11,135	8,484	8,602	9,172	9,012	8,739	8,634	9,466
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)						924,553	939,223	936,390	958,089	968,062	1,007,473	975,229	993,392	1,032,621
	Coronary heart disease (I20-I25)						323,010	326,136	323,705	324,605	318,102	318,408	321,138	322,268	327,589
	Myocardial infarction (I21-I22)							98,146	114,500	120,536	120,100	125,638	129,855	132,310	134,783
	Atrial fibrillation (I48)							84,722	86,712	88,333	89,415	95,321	96,362	96,522	103,509
	Heart Failure (I50)							75,888	79,853	84,346	91,549	101,303	106,684	114,244	119,247
	Stroke (I60-I69)						115,957	113,368	115,875	118,273	119,212	123,365	125,462	127,851	132,326
	Other cardiovascular disease							339,109	330,245	342,532	349,784	369,076	325,583	332,507	349,950

Notes: Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.

** Scotland - figures for 2012/13 to 2014/15 do not include subsequent myocardial infarction (I22)

'Other cardiovascular disease' refers to I00-I99 minus the sum of I20-I25, I60-I69, I48 and I50

Source: NHS Digital (2019). Hospital Episode Statistics. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>

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www.infoandstats.wales.nhs.uk

www.health-ni.gov.uk/articles/episode-based-activity

Table 2.4c Inpatient episodes by main diagnosis in NHS hospitals in women, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2018/19

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WOMEN		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
England	Heart and circulatory diseases (CVD) (I00-I99)	549,030	549,768	559,474	580,911	598,575	603,920	601,714	596,206	607,280	618,907	641,753	607,701	617,528	637,486
	Coronary heart disease (I20-I25)	153,446	151,013	149,178	148,171	142,008	141,558	142,554	138,987	136,073	133,479	132,863	132,803	132,267	132,690
	<i>Myocardial infarction (I21-I22)</i>	51,752	51,456	50,418	50,760	49,383	47,031	48,186	53,608	53,936	53,894	55,831	56,356	57,453	57,544
	Atrial fibrillation (I48)	49,843	51,166	53,317	55,601	58,454	60,108	60,948	62,075	63,922	64,494	66,369	67,628	67,907	73,249
	Heart Failure (I50)	52,428	48,911	51,051	52,305	54,989	56,811	57,865	60,710	63,328	69,116	75,587	79,643	83,127	86,855
	Stroke (I60-I69)	93,280	92,181	93,627	98,738	105,827	101,971	99,142	99,579	99,763	99,196	101,394	101,922	104,418	104,613
	Other cardiovascular disease	200,033	206,497	212,301	226,096	237,297	243,472	241,205	234,855	244,194	252,622	265,540	225,705	229,809	240,079
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				65,373	64,798	66,082	66,164	65,869	70,503	70,494	74,268	71,823	71,864	72,073
	Coronary heart disease (I20-I25)				17,775	17,234	17,931	17,681	16,683	18,061	16,912	17,564	17,641	17,495	17,781
	<i>Myocardial infarction (I21-I22)</i>				7,183	7,937	9,271	9,532	9,205	10,103	9,471	9,972	9,994	9,699	9,859
	Atrial fibrillation (I48)				5,468	5,489	5,979	5,964	5,985	6,746	6,936	7,319	7,548	7,409	7,586
	Heart Failure (I50)				5,391	5,421	5,588	5,777	5,735	6,135	6,434	7,468	7,908	8,087	8,456
	Stroke (I60-I69)				11,451	11,642	11,822	11,893	12,334	13,132	13,914	14,289	14,705	15,052	14,408
	Other cardiovascular disease				25,288	25,012	24,762	24,849	25,132	26,429	26,298	27,628	24,021	23,821	23,842
Wales	Heart and circulatory diseases (CVD) (I00-I99)	36,256	36,485	37,014	37,882	39,680	39,149	39,261	38,114	38,582	36,974	37,722	33,884	33,563	34,672
	Coronary heart disease (I20-I25)	10,188	10,171	10,038	9,768	9,516	9,304	9,758	9,214	8,863	7,854	8,316	7,779	7,620	7,639
	<i>Myocardial infarction (I21-I22)</i>	3,693	3,601	3,594	3,468	3,286	3,103	3,092	3,425	3,537	3,069	3,622	3,589	3,571	3,347
	Atrial fibrillation (I48)	3,458	3,477	3,548	3,391	3,975	4,070	3,871	4,033	4,036	3,860	4,089	3,963	3,934	4,052
	Heart Failure (I50)	3,835	3,734	4,051	3,819	4,148	4,359	3,959	4,302	4,197	4,296	4,431	4,254	4,314	4,338
	Stroke (I60-I69)	6,408	6,080	6,294	6,932	7,063	6,868	6,949	6,878	6,706	6,580	6,493	5,688	5,667	5,960
	Other cardiovascular disease	12,367	13,023	13,083	13,972	14,978	14,548	14,724	13,687	14,780	14,384	14,393	12,200	12,028	12,683
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)						18,388	20,026	18,721	18,622	18,819	18,566	17,765	17,984	19,215
	Coronary heart disease (I20-I25)						4,609	4,539	4,674	4,681	4,596	4,577	4,464	4,295	4,593
	<i>Myocardial infarction (I21-I22)</i>								1,354	1,652	1,827	1,851	1,992	2,047	1,999
	Atrial fibrillation (I48)								1,885	2,108	1,952	1,919	2,329	2,082	2,122
	Heart Failure (I50)								1,958	2,154	2,185	2,349	2,489	2,593	2,702
	Stroke (I60-I69)						2,387	1,571	1,506	1,641	1,244	1,076	1,169	1,205	1,148
	Other cardiovascular disease							10,073	8,279	8,163	8,711	8,095	7,457	7,660	8,185
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)						727,539	727,165	718,910	734,987	745,194	772,309	731,173	740,939	763,446
	Coronary heart disease (I20-I25)						173,402	174,532	169,558	167,678	162,841	163,320	162,687	161,677	162,703
	<i>Myocardial infarction (I21-I22)</i>							62,164	67,890	69,403	68,285	71,417	71,986	72,722	72,666
	Atrial fibrillation (I48)							72,668	74,201	76,656	77,209	80,106	81,221	81,372	87,105
	Heart Failure (I50)							69,559	72,901	75,845	82,195	89,975	94,398	98,230	102,720
	Stroke (I60-I69)						123,048	119,555	120,297	121,242	120,934	123,252	123,484	126,342	126,129
	Other cardiovascular disease							290,851	281,953	293,566	302,015	315,656	269,383	273,318	284,789

Notes:

Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.

For England, data for females up to and including 2011/12 is calculated as the difference between total finished consultant episodes and male consultant episodes.

** Scotland - figures for 2012/13 to 2014/15 do not include subsequent myocardial infarction (I22)

'Other cardiovascular disease' refers to I00-I99 minus the sum of I20-I25, I60-I69, I48 and I50

Source:

NHS Digital (2018). Hospital Episode Statistics.

<https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>

Information Services Division Scotland (2019) Main diagnosis discharges from hospital. Personal correspondence.

NHS Wales Informatics Service (2018). The Patient Episode Database for Wales.

www.infoandstats.wales.nhs.uk

Hospital Information Branch (2018). Northern Ireland Episode Based Inpatient and Day Case Activity Data

www.health-ni.gov.uk/articles/episode-based-activity

Table 2.5 Incidence rates of selected cardiovascular conditions by gender and age, United Kingdom, 2005 to 2017

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ALL	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	481.5	459.0	447.5	438.1	437.0	432.1	422.7	444.5	428.2	435.2	443.5	445.9	422.1
55-64 years	1109.0	1089.7	1045.6	1015.0	975.3	990.8	983.8	1006.2	975.0	979.8	957.8	961.0	976.7
65-74 years	2377.0	2261.2	2116.5	2067.6	2040.8	1948.0	1940.9	1993.6	1930.9	1856.1	1868.0	1860.6	1778.6
75+ years	4480.7	4382.0	4134.0	4078.3	4021.7	3945.8	4174.5	4164.1	4042.0	4053.9	4101.8	3955.7	3804.7
Age-standardised (per 100,000 adults per year)	1051.4	1019.4	966.1	946.5	932.6	913.8	934.9	949.5	919.7	915.1	919.1	904.1	874.4
MEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	652.5	625.7	608.6	594.9	599.1	581.0	570.1	602.6	572.6	590.4	599.2	591.3	552.7
55-64 years	1493.9	1495.5	1422.4	1388.3	1313.8	1374.3	1339.8	1375.3	1346.9	1357.0	1312.7	1315.5	1317.7
65-74 years	2976.4	2805.1	2659.7	2660.2	2627.2	2516.6	2486.6	2565.0	2443.8	2403.1	2420.8	2324.8	2334.6
75+ years	5135.9	5119.4	5013.3	4863.4	4692.9	4596.8	4937.6	4971.6	4811.9	4818.4	4641.8	4527.3	4455.7
Age-standardised (per 100,000 adults per year)	1290.7	1263.0	1220.2	1194.1	1163.7	1145.4	1170.4	1197.3	1154.2	1155.9	1134.8	1106.1	1093.6
WOMEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	308.9	290.6	285.3	280.6	274.0	282.5	275.4	287.1	284.5	281.1	289.4	302.1	292.1
55-64 years	751.8	713.6	695.9	669.9	663.7	638.7	658.7	670.9	636.9	635.1	632.4	634.7	658.8
65-74 years	1921.5	1838.9	1698.1	1605.4	1585.4	1505.4	1514.0	1547.5	1529.1	1428.4	1436.2	1495.4	1344.0
75+ years	4152.0	3998.7	3681.2	3680.7	3663.4	3583.0	3764.0	3730.2	3628.3	3649.3	3796.3	3616.9	3420.5
Age-standardised (per 100,000 adults per year)	868.7	832.9	776.7	760.6	755.0	733.2	756.7	762.5	742.2	732.8	748.3	744.0	702.4

Notes:

All incidence rates are calculated per 100,000 of the population; population-weighted data from each of the UK's four nations

Age-standardised rate is calculated for adults aged 15+

CVD here includes: Atrial fibrillation, heart failure, stroke/TIA and PVD

Source

The Health Improvement Network (THIN) 2020



Table 2.6 Incidence rates of cardiovascular disease by gender, England, Scotland, Wales, and Northern Ireland 2005 to 2017

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by UK Nation

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
England													
All	1026.0	986.6	940.5	918.2	899.3	878.8	914.8	925.6	894.6	892.2	889.8	877.7	851.4
Men	1254.8	1232.6	1185.8	1150.7	1122.9	1108.3	1153.6	1171.9	1123.0	1127.1	1097.0	1076.7	1068.0
Women	848.5	795.4	755.2	740.3	726.0	700.3	734.9	739.2	721.6	714.4	724.0	718.7	681.5
Scotland													
All	1187.1	1271.1	1201.0	1155.3	1145.0	1143.4	1086.7	1127.5	1119.8	1085.7	1137.6	1054.7	1030.3
Men	1518.8	1500.7	1523.8	1513.1	1436.5	1402.0	1287.0	1386.8	1383.9	1370.7	1397.2	1258.3	1244.4
Women	955.8	1119.1	978.1	917.2	936.5	941.9	923.8	938.0	919.8	871.7	937.7	904.2	853.1
Wales													
All	1140.2	1065.9	925.5	958.7	968.2	921.8	933.5	952.2	940.3	935.8	960.0	986.1	896.6
Men	1389.7	1286.8	1125.6	1204.9	1194.3	1139.0	1093.9	1175.0	1194.6	1177.2	1207.3	1186.4	1074.8
Women	949.5	899.1	760.3	769.8	791.4	753.4	790.0	781.1	745.4	752.6	772.0	824.4	746.4
Northern Ireland													
All	1264.4	1187.7	1112.5	1163.0	1247.1	1274.9	1095.8	1138.5	1050.4	1065.9	1088.7	1116.3	1070.2
Men	1531.6	1438.8	1522.2	1539.5	1535.9	1515.8	1456.8	1439.1	1347.3	1352.6	1377.1	1404.1	1449.2
Women	1079.3	1006.9	859.8	894.1	1028.8	1073.1	864.1	916.7	834.7	842.5	881.3	897.6	815.2

Notes:

All incidence rates are calculated per 100,000 of the adult population aged 15+

CVD here includes: Atrial fibrillation, heart failure, stroke/TIA and PVD

Source

The Health Improvement Network (THIN) 2020



Table 2.7 Incidence rates of coronary heart disease by gender and age, United Kingdom, 2005 to 2017

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ALL	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	255.6	249.5	231.2	223.1	212.8	219.6	198.4	214.6	196.9	198.3	200.1	201.4	190.9
55-64 years	543.4	539.3	500.2	459.4	439.0	434.6	425.0	425.7	406.9	409.8	390.3	399.8	417.5
65-74 years	956.0	870.9	820.0	776.1	722.9	678.0	662.8	673.4	627.5	582.6	567.5	544.5	527.6
75+ years	1122.8	1084.1	1032.3	1005.7	938.1	885.3	923.4	922.4	846.3	835.3	831.0	742.5	718.6
Age-standardised (per 100,000 adults per year)	374.4	356.9	337.5	319.6	302.2	290.2	287.7	291.8	272.4	266.1	261.1	248.9	246.7
MEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	366.8	367.2	338.7	323.3	314.0	325.4	291.0	321.4	288.0	303.5	291.0	289.3	277.2
55-64 years	760.1	765.9	732.5	674.5	642.2	651.2	631.0	615.1	599.5	623.2	574.2	600.6	606.9
65-74 years	1254.9	1167.1	1102.2	1055.1	989.5	967.3	916.6	934.8	851.1	818.7	790.2	741.9	761.0
75+ years	1367.5	1351.4	1322.9	1268.5	1221.6	1108.1	1148.2	1182.5	1054.4	1059.4	1088.2	921.3	965.4
Age-standardised (per 100,000 adults per year)	494.0	480.7	462.0	436.3	418.2	404.7	394.0	403.1	371.8	373.1	364.0	340.8	348.6
WOMEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	142.7	129.8	122.0	121.7	110.2	112.5	105.3	107.5	105.4	93.0	109.2	113.8	104.0
55-64 years	337.9	324.3	279.5	255.6	246.9	230.9	232.2	248.8	226.9	209.5	217.0	209.7	236.0
65-74 years	715.9	629.6	590.6	546.8	503.1	439.8	452.7	456.7	442.1	386.2	382.5	379.4	332.7
75+ years	990.1	932.8	860.4	854.6	775.9	746.1	785.1	761.4	715.2	694.1	669.0	621.9	561.3
Age-standardised (per 100,000 adults per year)	275.4	253.7	233.5	222.5	206.4	192.6	197.9	198.3	187.7	174.9	174.6	168.9	160.2

Notes:

All incidence rates are calculated per 100,000 of the population; population-weighted data from each of the UK's four nations

Age-standardised rate is calculated for adults aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.8 Incidence rates of coronary heart disease by gender, England, Scotland, Wales, and Northern Ireland 2005 to 2017

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by UK Nation

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
England													
All	360.2	340.0	325.8	308.1	290.3	277.6	277.7	282.6	260.8	257.3	253.3	238.7	238.3
Men	479.1	467.4	449.3	421.0	406.6	390.3	382.7	393.4	358.1	363.1	354.2	330.8	338.2
Women	261.4	233.7	221.8	213.6	194.1	181.2	188.4	189.7	177.7	167.0	168.5	158.2	153.1
Scotland													
All	466.2	486.5	439.1	397.4	380.3	379.7	367.1	365.0	361.5	341.5	323.5	305.1	303.2
Men	572.2	584.0	566.4	548.8	489.7	502.7	467.9	474.6	465.5	451.6	442.8	385.2	420.0
Women	380.6	408.5	336.1	277.4	291.8	275.0	280.6	270.6	273.3	246.5	223.9	235.9	207.6
Wales													
All	421.0	395.0	341.4	331.3	341.3	309.3	297.4	296.5	290.3	257.3	263.1	273.5	254.2
Men	575.0	504.6	439.2	442.0	444.6	413.5	399.7	389.8	377.5	361.4	351.5	361.3	335.5
Women	296.4	299.8	258.0	239.8	255.7	220.1	213.2	217.1	213.6	170.5	185.3	197.6	182.5
Northern Ireland													
All	451.8	421.3	383.5	417.0	363.3	374.4	338.9	343.5	329.7	325.2	306.7	348.9	320.2
Men	573.8	538.0	573.8	555.7	509.9	535.2	507.7	509.2	498.6	462.5	448.3	475.1	471.0
Women	352.5	322.7	243.8	300.2	242.4	246.6	214.2	213.0	193.6	208.2	193.7	244.2	195.9

Notes:

All incidence rates are calculated per 100,000 of the adult population aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.9 Incidence rates of myocardial infarction by gender and age, United Kingdom, 2005 to 2017

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ALL	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	115.3	115.1	110.1	101.4	104.7	116.4	102.9	105.4	102.6	102.7	110.5	106.3	110.3
55-64 years	214.8	206.2	204.9	179.2	181.1	193.4	184.2	187.3	187.9	184.1	186.4	194.3	207.7
65-74 years	376.3	334.8	331.4	308.6	302.8	296.2	296.7	289.9	282.9	259.2	258.4	230.8	251.1
75+ years	677.7	595.7	605.1	598.7	557.7	562.7	564.7	549.6	497.4	493.7	489.2	430.6	440.2
Age-standardised (per 100,000 adults per year)	176.1	160.7	161.1	151.6	148.2	150.6	147.9	146.1	139.8	135.6	136.6	126.4	134.1
MEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	181.1	185.4	165.3	156.5	163.9	182.5	161.4	170.0	160.2	163.9	166.8	161.0	167.0
55-64 years	318.8	312.8	311.3	274.2	284.1	303.7	288.0	278.2	282.6	289.2	282.6	288.1	321.3
65-74 years	525.7	456.0	460.6	423.6	414.9	415.7	416.3	404.9	394.7	359.8	345.0	311.9	359.5
75+ years	843.0	745.9	757.5	748.3	703.2	681.0	692.3	666.6	589.4	591.7	616.7	510.8	587.4
Age-standardised (per 100,000 adults per year)	242.0	222.4	221.9	209.0	206.3	208.4	205.0	200.2	190.9	187.3	188.1	170.7	192.0
WOMEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	47.6	43.0	53.5	45.0	44.2	49.1	43.5	40.1	44.5	41.0	54.0	51.5	52.9
55-64 years	112.6	101.5	100.6	86.3	80.7	86.7	84.0	99.8	96.9	82.9	93.1	103.1	95.8
65-74 years	247.0	229.0	218.7	207.8	203.7	191.0	191.3	188.3	184.5	169.6	182.0	158.8	155.0
75+ years	580.6	511.4	511.5	508.5	471.5	487.5	481.6	470.9	438.1	427.6	404.4	373.8	340.7
Age-standardised (per 100,000 adults per year)	119.9	107.9	108.6	102.4	98.1	99.4	97.7	98.1	94.3	89.2	91.3	86.2	82.9

Notes:

All incidence rates are calculated per 100,000 of the population; population-weighted data from each of the UK's four nations

Age-standardised rate is calculated for adults aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.10 Incidence rates of myocardial infarction by gender, England, Scotland, Wales, and Northern Ireland 2005 to 2017

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by UK Nation

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
England													
All	168.0	154.5	156.2	143.7	141.6	143.8	142.7	140.8	134.1	131.9	131.6	121.0	128.6
Men	232.5	215.9	216.3	197.9	198.4	200.2	199.5	193.2	183.9	183.5	180.5	164.0	185.4
Women	113.1	101.1	104.3	96.5	92.6	93.6	92.5	94.2	89.6	85.6	88.6	81.7	78.3
Scotland													
All	243.9	222.1	209.9	220.1	194.9	214.0	194.1	191.3	184.4	178.3	177.5	162.3	179.3
Men	311.8	294.5	269.0	304.1	265.7	287.3	256.0	261.3	246.9	228.1	251.5	207.7	249.4
Women	183.4	167.3	156.9	153.0	134.3	148.6	140.6	130.7	131.5	134.4	114.1	121.5	119.2
Wales													
All	185.0	155.9	157.4	141.0	157.4	143.4	151.1	151.6	143.6	119.2	138.3	136.3	133.2
Men	275.9	200.1	212.5	196.1	206.7	197.7	202.8	204.3	183.1	175.8	194.8	181.7	182.8
Women	111.8	118.1	109.8	94.4	113.9	98.2	105.6	105.5	105.9	69.1	87.6	95.2	89.0
Northern Ireland													
All	207.4	175.9	172.0	207.7	193.0	181.4	163.1	163.1	171.4	149.9	161.5	166.8	166.2
Men	267.1	242.5	268.6	284.6	267.9	243.1	223.9	223.7	249.3	203.3	217.5	242.4	238.7
Women	153.3	120.8	94.8	144.7	129.1	130.2	117.5	108.6	105.9	100.9	110.4	104.2	102.2

Notes:

All incidence rates are calculated per 100,000 of the adult population aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.11 Incidence rates of atrial fibrillation by gender and age, United Kingdom, 2005 to 2017

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ALL	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	85.5	81.4	81.6	87.5	77.0	70.4	83.8	84.1	86.4	83.8	93.7	84.7	87.6
55-64 years	256.5	278.0	268.0	268.5	237.3	251.1	261.5	272.1	265.2	269.4	275.3	267.2	272.7
65-74 years	741.7	785.0	740.0	734.4	735.4	713.7	732.4	800.9	748.5	768.0	773.8	792.1	750.3
75+ years	1656.0	1776.0	1716.8	1727.9	1699.4	1749.6	1824.2	1893.2	1890.1	1928.2	2031.4	2029.1	1924.1
Age-standardised (per 100,000 adults per year)	329.6	350.3	336.3	337.9	328.6	332.1	346.2	364.5	356.5	362.5	377.9	376.8	361.2
MEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	120.0	113.4	113.1	129.4	117.6	95.5	119.1	115.8	117.1	116.3	137.6	124.8	118.0
55-64 years	356.9	373.4	354.8	355.8	321.0	334.0	346.9	371.6	368.6	373.0	381.5	375.0	391.8
65-74 years	926.0	964.0	922.4	911.4	925.9	893.0	907.2	1011.7	941.0	1008.8	1004.7	985.5	962.0
75+ years	1915.5	2069.1	2001.6	1984.4	1942.7	2023.9	2167.9	2203.6	2257.1	2263.8	2333.1	2328.5	2232.2
Age-standardised (per 100,000 adults per year)	404.2	426.7	411.0	409.6	400.8	403.8	426.7	447.0	443.4	452.9	465.8	457.7	446.5
WOMEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	49.8	48.3	49.1	44.4	35.3	44.7	47.7	51.8	55.2	51.0	49.5	44.3	57.0
55-64 years	156.6	183.3	181.8	182.3	155.2	170.2	178.2	175.9	165.0	169.5	171.7	162.2	154.9
65-74 years	579.6	626.8	579.6	577.8	567.0	553.5	576.2	613.1	577.7	554.3	569.4	620.1	563.6
75+ years	1502.7	1598.3	1540.4	1572.0	1543.3	1572.5	1608.5	1691.9	1649.7	1707.0	1835.6	1817.4	1715.3
Age-standardised (per 100,000 adults per year)	268.8	288.7	275.8	279.4	268.4	273.4	281.8	296.8	286.2	288.2	304.9	308.4	289.8

Notes:

All incidence rates are calculated per 100,000 of the population; population-weighted data from each of the UK's four nations

Age-standardised rate is calculated for adults aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.12 Incidence rates of atrial fibrillation by gender, England, Scotland, Wales, and Northern Ireland 2005 to 2017

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by UK Nation

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
England													
All	328.7	343.4	333.7	336.5	326.6	328.7	345.0	362.5	350.0	356.5	371.7	371.4	356.4
Men	401.9	418.2	407.3	406.0	398.9	398.8	427.9	445.9	436.7	445.6	455.6	450.3	440.4
Women	268.4	282.0	273.6	279.2	267.1	270.9	279.7	294.4	280.1	283.3	300.8	304.1	285.6
Scotland													
All	311.6	391.6	373.4	345.2	338.3	362.2	347.7	381.6	385.9	384.2	404.3	388.4	382.7
Men	399.3	470.9	454.2	429.7	412.9	445.3	405.5	462.7	470.4	480.9	506.0	484.5	475.7
Women	244.7	332.5	308.2	285.6	273.1	296.3	293.2	315.4	314.8	307.2	327.3	314.3	306.7
Wales													
All	352.9	375.6	312.1	324.1	321.2	312.5	346.4	362.0	373.7	381.4	388.8	405.4	358.5
Men	413.3	463.0	369.0	395.3	399.9	395.2	408.7	460.4	461.5	463.0	501.7	496.1	434.0
Women	306.5	308.1	263.2	262.7	255.0	245.8	292.1	280.4	298.9	311.1	299.7	329.5	292.7
Northern Ireland													
All	369.3	394.0	348.5	381.5	371.8	380.6	374.9	375.5	434.5	446.5	467.5	455.8	444.4
Men	472.5	493.5	467.3	482.6	422.4	446.6	481.8	412.6	533.5	570.6	591.4	535.5	564.0
Women	288.0	327.8	268.8	296.4	316.6	327.9	295.7	341.5	361.7	342.8	371.3	381.8	359.4

Notes:

All incidence rates are calculated per 100,000 of the adult population aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.13 Incidence rates of heart failure by gender and age, United Kingdom, 2005 to 2017

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ALL	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	34.1	40.6	36.4	34.5	41.0	33.7	36.8	37.0	40.4	40.3	47.7	45.2	48.5
55-64 years	119.4	120.4	103.6	110.6	114.2	109.6	105.4	118.6	107.6	108.5	129.2	119.7	116.6
65-74 years	368.9	340.9	329.7	320.3	304.2	312.9	302.0	306.2	302.4	295.9	336.7	318.8	271.8
75+ years	1136.7	986.7	913.8	905.2	930.0	908.8	940.1	955.4	973.8	1004.8	1036.4	1057.8	954.3
Age-standardised (per 100,000 adults per year)	193.3	175.8	163.0	161.5	163.7	160.9	162.4	167.3	167.2	170.3	184.6	182.0	164.1
MEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	54.5	55.1	53.3	50.3	57.6	49.8	48.2	54.7	57.6	53.4	69.6	57.9	64.5
55-64 years	172.0	173.4	148.7	163.2	159.1	157.5	154.8	170.0	158.0	149.3	184.2	167.4	161.6
65-74 years	475.6	452.9	450.4	413.2	399.2	410.2	409.2	391.5	411.2	396.6	451.6	427.3	353.9
75+ years	1377.3	1271.8	1136.5	1159.6	1187.1	1126.5	1174.0	1224.5	1267.5	1269.5	1288.2	1314.8	1182.2
Age-standardised (per 100,000 adults per year)	244.6	231.9	212.6	211.8	213.4	207.3	210.9	218.7	223.5	220.6	239.2	233.2	209.6
WOMEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	13.0	25.6	18.9	18.1	23.8	17.2	25.1	18.9	22.8	27.0	25.4	32.4	32.3
55-64 years	66.8	67.5	58.6	58.4	69.9	62.4	56.9	68.5	58.6	68.4	75.0	72.8	71.9
65-74 years	275.0	240.9	222.0	236.9	218.7	225.0	205.4	229.2	204.3	204.8	232.7	221.1	197.3
75+ years	998.4	822.4	780.4	754.6	778.8	774.8	791.4	787.7	794.4	836.4	873.4	892.7	801.6
Age-standardised (per 100,000 adults per year)	154.3	134.6	124.4	123.3	126.4	124.6	124.5	128.0	124.6	131.6	141.0	142.0	127.6

Notes:

All incidence rates are calculated per 100,000 of the population; population-weighted data from each of the UK's four nations

Age-standardised rate is calculated for adults aged 15+

Source

The Health Improvement Network (THIN) 2020

Table 2.14 Incidence rates of heart failure by gender, England, Scotland, Wales, and Northern Ireland 2005 to 2017

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by UK Nation

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
England													
All	187.4	169.4	156.2	154.9	158.6	154.4	156.2	161.0	161.8	164.8	181.7	179.9	162.2
Men	236.4	224.3	204.3	204.3	204.9	200.7	202.4	211.1	216.8	215.1	236.2	232.1	206.0
Women	150.0	128.8	118.8	118.0	123.5	117.9	119.9	122.6	120.5	126.3	137.8	139.6	126.1
Scotland													
All	209.9	214.7	207.9	204.9	175.4	191.8	195.6	208.2	192.2	186.7	199.4	174.8	161.5
Men	274.6	286.9	272.2	261.0	235.6	240.0	252.7	272.8	256.0	239.8	266.3	214.6	221.8
Women	159.7	169.7	158.3	159.3	134.8	156.7	147.4	160.4	142.0	148.2	148.0	141.2	118.8
Wales													
All	232.0	201.1	168.9	168.1	181.8	189.6	188.3	172.9	196.7	194.5	182.3	180.2	158.1
Men	315.9	255.9	206.1	218.6	247.7	243.9	240.2	218.1	256.0	239.3	222.1	216.8	187.8
Women	171.4	155.1	137.1	128.0	132.2	148.4	145.5	135.6	148.5	158.0	150.5	146.9	135.0
Northern Ireland													
All	254.2	210.0	224.2	219.9	249.3	217.7	209.5	228.1	206.4	245.5	231.5	266.8	238.9
Men	282.6	257.0	298.6	281.3	345.0	248.3	292.8	289.7	271.8	296.4	277.6	349.0	317.6
Women	238.4	173.0	173.7	169.3	180.5	192.1	158.8	183.7	156.4	198.1	198.7	206.8	186.9

Notes:

All incidence rates are calculated per 100,000 of the adult population aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.15 Incidence rates of stroke/TIA by gender and age, United Kingdom, 2005 to 2017

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ALL	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	118.2	114.3	120.5	116.2	124.6	124.5	126.3	127.4	128.7	141.2	133.6	138.2	138.8
55-64 years	305.1	280.7	270.0	265.3	274.9	287.3	288.2	284.1	285.8	301.9	288.3	284.3	280.5
65-74 years	739.9	692.8	656.4	640.6	649.4	624.4	654.5	621.4	641.9	599.1	594.5	592.1	560.5
75+ years	1641.9	1581.9	1470.0	1437.4	1475.9	1460.7	1509.4	1491.2	1509.3	1432.5	1444.3	1307.2	1318.1
Age-standardised (per 100,000 adults per year)	343.1	326.4	308.7	302.6	311.1	308.1	318.8	312.6	317.0	310.0	305.0	292.5	288.3
MEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	132.9	123.2	141.6	131.5	136.8	135.6	141.6	137.4	141.3	158.6	150.1	147.2	157.8
55-64 years	361.8	345.8	319.9	314.9	333.6	353.5	335.4	344.9	345.6	365.9	342.9	333.1	325.9
65-74 years	852.8	799.6	765.1	763.7	772.5	711.9	760.2	706.8	740.4	687.5	689.7	687.8	665.3
75+ years	1764.7	1698.6	1598.7	1547.9	1537.5	1573.8	1602.1	1617.7	1586.6	1465.5	1490.2	1379.4	1385.5
Age-standardised (per 100,000 adults per year)	381.0	363.7	346.8	340.1	344.0	343.1	351.4	347.7	348.7	337.8	333.7	321.1	319.0
WOMEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	103.0	105.2	98.7	100.3	112.0	113.1	110.6	117.2	115.8	123.4	116.9	129.0	119.5
55-64 years	248.6	216.0	220.2	215.9	216.9	222.0	242.0	224.8	227.4	238.8	234.3	236.1	235.4
65-74 years	641.4	598.3	559.6	530.1	539.5	544.9	559.8	544.3	553.1	519.5	508.6	505.6	466.1
75+ years	1576.3	1504.4	1389.4	1368.0	1422.1	1376.3	1447.4	1406.4	1453.8	1399.9	1399.6	1251.8	1275.8
Age-standardised (per 100,000 adults per year)	313.0	294.9	277.2	270.9	280.7	277.3	291.0	283.3	289.0	283.5	277.6	266.9	261.6

Notes:

All incidence rates are calculated per 100,000 of the population; population-weighted data from each of the UK's four nations

Age-standardised rate is calculated for adults aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.16 Incidence rates of stroke/TIA by gender, England, Scotland, Wales, and Northern Ireland 2005 to 2017

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by UK Nation

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
England													
All	334.8	313.6	299.5	289.4	296.1	294.4	310.7	303.4	309.8	300.8	293.0	279.9	278.6
Men	367.6	348.9	334.2	325.9	327.0	330.8	345.0	339.2	338.4	326.3	320.7	307.2	309.1
Women	308.0	283.7	269.3	257.7	267.0	263.8	282.3	273.0	283.7	275.8	266.2	255.5	252.7
Scotland													
All	396.0	439.2	394.4	399.3	436.6	414.7	393.7	389.9	387.1	390.2	410.1	383.5	368.0
Men	492.6	504.2	453.3	433.0	474.5	441.3	408.5	423.0	438.3	438.0	444.0	411.8	398.7
Women	329.6	384.9	355.5	375.3	402.9	382.2	373.7	365.1	346.1	351.7	378.4	355.7	336.2
Wales													
All	362.7	327.3	285.3	313.9	321.9	328.4	310.5	308.0	308.4	317.9	312.6	325.8	300.0
Men	402.8	346.6	331.0	347.6	374.1	365.4	324.8	333.5	369.6	346.2	345.3	365.0	328.3
Women	322.8	310.0	246.9	287.3	278.4	293.4	289.9	293.2	260.4	290.7	282.4	291.9	272.9
Northern Ireland													
All	404.9	379.5	373.1	393.4	375.8	372.9	357.7	371.6	341.3	337.6	344.0	348.2	327.9
Men	419.9	423.7	438.0	482.7	420.6	387.0	420.4	408.4	360.0	376.3	380.9	396.8	367.3
Women	398.0	341.2	335.5	332.3	338.1	345.9	311.7	335.9	327.7	302.5	317.1	306.9	290.2

Notes:

All incidence rates are calculated per 100,000 of the adult population aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.17 Incidence rates of peripheral vascular disease by gender and age, United Kingdom, 2005 to 2017

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ALL	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	53.9	49.1	45.6	37.5	44.2	46.7	39.3	41.2	36.2	30.6	31.8	29.5	24.9
55-64 years	153.9	143.1	129.0	126.9	128.9	118.2	102.8	111.3	110.9	93.0	96.2	84.9	83.4
65-74 years	312.5	282.4	251.8	244.7	232.1	219.8	199.5	195.5	203.5	175.5	171.9	142.1	144.3
75+ years	404.8	363.3	311.4	282.1	278.1	279.4	257.6	293.7	264.2	230.6	216.6	196.4	171.4
Age-standardised (per 100,000 adults per year)	116.1	105.5	93.2	87.6	87.0	84.5	75.3	80.4	77.4	66.5	65.2	57.7	53.6
MEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	75.2	69.4	60.7	48.3	65.9	65.9	56.1	59.6	53.6	40.8	46.3	41.9	31.8
55-64 years	222.4	211.7	185.9	185.8	182.1	178.4	154.5	157.6	159.6	139.7	142.5	126.0	114.0
65-74 years	386.3	386.2	341.7	346.1	308.4	327.9	270.6	275.7	278.7	245.8	242.0	187.0	205.3
75+ years	551.5	486.2	422.7	364.2	368.7	358.8	341.8	384.4	341.8	311.0	274.3	234.6	230.2
Age-standardised (per 100,000 adults per year)	155.4	145.6	127.8	119.9	117.8	119.0	104.2	110.6	105.5	92.5	89.8	75.4	73.6
WOMEN	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
45-54 years	31.8	28.0	30.0	26.4	21.9	26.9	22.0	22.3	18.5	20.3	17.1	17.0	18.0
55-64 years	85.8	74.7	72.3	68.4	76.3	58.7	52.4	66.1	63.4	47.2	50.6	44.1	52.9
65-74 years	247.4	190.0	171.5	153.9	163.4	123.1	135.2	123.3	135.6	112.1	108.8	101.4	88.6
75+ years	320.5	289.8	237.8	226.1	219.2	224.4	200.7	231.7	210.6	177.0	174.4	168.7	129.4
Age-standardised (per 100,000 adults per year)	84.6	72.1	63.7	59.4	60.6	53.9	50.4	54.4	52.9	44.3	43.3	41.6	36.2

Notes:

All incidence rates are calculated per 100,000 of the population; population-weighted data from each of the UK's four nations

Age-standardised rate is calculated for adults aged 15+

Source

The Health Improvement Network (THIN) 2020



Table 2.18 Incidence rates of peripheral vascular disease by gender, England, Scotland, Wales, and Northern Ireland 2005 to 2017

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by UK Nation

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
England													
All	106.5	100.5	88.3	82.0	79.2	75.7	70.2	75.5	73.2	61.9	60.9	54.5	50.1
Men	144.2	140.7	120.0	111.7	107.3	108.7	98.4	104.4	101.2	87.5	84.6	70.9	69.9
Women	76.2	66.3	61.1	55.9	54.8	46.0	45.4	50.5	48.8	40.2	39.8	39.5	32.8
Scotland													
All	200.4	146.0	138.0	128.1	125.3	109.4	106.3	115.4	118.4	110.0	98.4	79.7	80.3
Men	254.0	189.4	206.3	175.7	178.0	151.8	145.3	158.7	152.4	150.7	127.7	103.8	100.0
Women	157.3	117.2	83.1	86.7	83.4	75.2	74.8	80.1	89.2	75.6	72.1	59.9	63.4
Wales													
All	115.4	102.5	81.0	77.6	84.4	69.0	73.6	92.0	82.0	62.4	70.5	62.6	58.4
Men	146.1	137.6	105.6	108.5	119.8	101.1	100.3	123.2	106.3	77.4	100.3	89.9	79.8
Women	86.8	71.0	59.7	49.6	52.8	42.5	51.9	62.9	60.4	47.1	43.3	37.5	38.5
Northern Ireland													
All	159.1	142.7	126.6	153.8	213.2	299.0	141.6	106.5	74.4	84.1	88.6	81.0	74.2
Men	218.3	177.1	169.5	220.6	253.3	360.3	161.8	135.6	96.0	98.5	114.9	104.8	96.1
Women	119.9	114.6	91.2	102.6	178.7	248.7	123.7	80.9	54.8	70.7	63.5	58.3	52.2

Notes:

All incidence rates are calculated per 100,000 of the adult population aged 15+

NB Northern Ireland data based on small number of cases

Source

The Health Improvement Network (THIN) 2020



Table 2.19 Incidence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD) by nation and region, United Kingdom 2017

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Country	English Region	Incidence CVD 2017 est	Incidence A/S CVD 2017 est	Incidence CHD 2017 est	Incidence A/S CHD 2017 est	Incidence Stroke 2017 est	Incidence Stroke A/S 2017
	East Midlands	109,898	1,181	22,445	234	7,656	86
	East of England	147,746	1,198	28,712	226	10,085	85
	Greater London	141,587	1,223	26,480	227	9,470	83
	North East England	64,929	1,232	13,699	252	4,538	89
	North West England	170,887	1,238	35,201	248	11,953	90
	South East England	216,661	1,210	40,056	218	14,442	84
	South West England	150,429	1,242	28,317	227	10,159	87
	West Midlands	128,052	1,157	27,045	236	9,362	88
	Yorkshire and the Humber	121,063	1,170	26,045	244	8,902	89
<i>England</i>		<i>1,251,250</i>	<i>1,206</i>	<i>248,000</i>	<i>233</i>	<i>86,567</i>	<i>86</i>
<i>Scotland</i>		<i>131,074</i>	<i>1,243</i>	<i>23,056</i>	<i>212</i>	<i>11,390</i>	<i>109</i>
<i>Wales</i>		<i>76,542</i>	<i>1,184</i>	<i>10,584</i>	<i>156</i>	<i>6,266</i>	<i>99</i>
<i>Northern Ireland</i>		<i>39,192</i>	<i>1,225</i>	<i>6,756</i>	<i>204</i>	<i>3,150</i>	<i>100</i>
United Kingdom		1,498,059	1,209	288,396	226	107,372	89

Notes:

All figures are estimates. A/S = age standardised rate per 100,000 inhabitants.

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9

ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Source:

Global Health Data Exchange, GBD Results Tool

<http://ghdx.healthdata.org/gbd-results-tool>

Table 2.20 Incidence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), 2017
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Region	Country	Incidence CVD 2017 est	Incidence A/S CVD 2017 est	Incidence CHD 2017 est	Incidence A/S CHD 2017 est	Incidence Stroke 2017 est	Incidence Stroke A/S 2017
GLOBAL		72,721,167	922	10,636,538	136	11,931,061	151
EUROPE		18,043,063	1,186	3,004,370	191	1,967,890	131
	Austria	290,598	1,656	27,869	151	19,830	117
	Belgium	285,672	1,279	37,292	162	22,511	100
	Czech Republic	297,253	1,469	44,115	215	28,616	143
	Denmark	141,830	1,291	19,025	167	10,456	98
	Finland	173,873	1,481	22,306	179	14,438	127
	France	1,473,395	1,115	176,831	126	110,018	85
	Germany	2,559,496	1,384	339,347	172	192,032	107
	Greece	277,653	1,181	40,433	159	27,813	117
	Hungary	257,753	1,371	41,592	212	26,548	141
	Ireland	83,621	1,172	11,023	151	6,598	94
	Italy	1,645,526	1,175	227,285	154	121,863	83
	Netherlands	357,695	1,111	67,552	203	32,571	103
	Norway	117,988	1,295	14,236	150	11,730	132
	Poland	880,730	1,294	138,132	195	90,705	132
	Portugal	211,272	912	16,744	66	22,594	95
	Romania	540,114	1,465	68,214	176	74,205	200
	Russian Federation	2,462,791	1,076	570,774	244	438,413	191
	Spain	1,034,654	1,091	111,325	110	89,375	96
	Sweden	255,415	1,277	33,520	158	19,200	102
	Switzerland	206,585	1,240	24,208	138	13,761	84
	Ukraine	814,885	1,069	216,026	274	147,687	195
	United Kingdom	1,498,059	1,209	288,396	226	107,372	89
	England	1,251,250	1,206	248,000	233	86,567	86
	Scotland	131,074	1,243	23,056	212	11,390	109
	Wales	76,542	1,184	10,584	156	6,266	99
	Northern Ireland	39,192	1,225	6,756	204	3,150	100
NORTH AMERICA		9,362,846	1,560	1,136,978	189	666,298	113
	Canada	873,540	1,336	91,085	134	65,024	100
	United States	8,488,509	1,588	1,045,779	196	601,161	115
LATIN AMERICA & CARIBBEAN		3,851,702	675	505,444	90	599,987	105
	Brazil	1,550,188	687	176,969	79	267,330	118
ASIA		35,151,913	775	4,891,408	110	7,696,374	169
	China	13,540,596	732	1,580,843	86	4,257,751	226
	India	7,384,664	679	1,203,341	118	1,137,075	105
	Japan	3,547,972	1,118	362,133	106	449,535	154
	Turkey	743,121	851	189,765	216	133,202	153
	United Arab Emirates	52,106	981	15,160	266	9,546	207
AFRICA		5,214,302	796	952,781	172	840,898	137
	South Africa	348,485	782	47,606	112	51,615	119
AUSTRALASIA		375,533	788	77,093	159	39,065	82
	Australia	312,267	777	62,801	153	33,228	83
	New Zealand	63,266	847	14,291	188	5,837	79

Notes: All figures are estimates. A/S = age standardised rate per 100,000 inhabitants.

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9

ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Regions and countries as defined by the Global Health Data Exchange <http://ghdx.healthdata.org/countries>

Source: Global Health Data Exchange, GBD Results Tool <http://ghdx.healthdata.org/gbd-results-tool>



bhf.org.uk/statistics

Heart and Circulatory Disease Statistics 2020 - Chapter 2b - Morbidity - Prevalence (Primary Care, Health Surveys, Comorbidities)

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T2.23	Prevalence of cardiovascular conditions from GP patient registers (QOF), Scotland 2008/09-2018/19
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PREVALENCE - Health Surveys

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GLOBAL PREVALENCE

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COMORBIDITIES

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Table 2.21 Prevalence of selected cardiovascular conditions by nation and region, United Kingdom 2018/19

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Nation/Region	List size	Coronary Heart Disease Register		Stroke or Transient Ischaemic Attacks (TIA) Register		Hypertension Register		Heart Failure Register		Atrial Fibrillation Register		Peripheral Arterial Disease (PAD) Register		BHF CVD estimate	
		N	%	N	%	N	%	N	%	N	%	N	%	N	%
East Midlands	4,983,926	166,772	3.3	94,621	1.9	735,806	14.8	56,619	1.1	105,498	2.1	32,605	0.7	560,000	11.2
East of England	6,532,563	200,459	3.1	114,871	1.8	937,333	14.3	58,444	0.9	135,705	2.1	34,870	0.5	660,000	10.1
London	10,060,769	196,484	2.0	106,809	1.1	1,103,139	11.0	56,670	0.6	111,157	1.1	33,126	0.3	620,000	6.2
North East England	2,780,707	114,470	4.1	63,086	2.3	441,002	15.9	36,444	1.3	61,611	2.2	25,652	0.9	370,000	13.3
North West England	7,838,863	284,672	3.6	155,275	2.0	1,151,909	14.7	89,032	1.1	166,688	2.1	64,032	0.8	930,000	11.9
South East England	9,657,368	276,533	2.9	169,355	1.8	1,349,699	14.0	79,680	0.8	210,580	2.2	51,020	0.5	960,000	9.9
South West England	5,803,029	205,385	3.5	127,719	2.2	866,697	14.9	62,948	1.1	148,252	2.6	39,068	0.7	710,000	12.2
West Midlands	6,253,970	202,179	3.2	116,770	1.9	926,971	14.8	58,449	0.9	125,294	2.0	37,354	0.6	670,000	10.7
Yorkshire and The Humber	5,792,321	208,385	3.6	114,813	2.0	841,122	14.5	59,882	1.0	120,191	2.1	44,106	0.8	670,000	11.6
England	59,703,516	1,855,339	3.1	1,063,319	1.8	8,353,678	14.0	558,168	0.9	1,184,976	2.0	361,833	0.6	6,150,000	10.3
Scotland	5,761,042	225,000	3.9	130,000	2.3	790,000	13.7	48,000	0.8	108,000	1.9	48,000	0.8	720,000	12.5
Wales	3,243,498	117,733	3.6	68,870	2.1	512,542	15.8	34,453	1.1	76,032	2.3	-	-	340,000	10.5
Northern Ireland	1,985,869	74,154	3.7	38,234	1.9	273,895	13.8	18,323	0.9	39,364	2.0	-	-	225,000	11.3
UK	70,693,925	2,272,226	3.2	1,300,423	1.8	9,930,115	14.0	658,944	0.9	1,408,372	2.0	-	-	7,435,000	10.5

Notes:

QOF England - Copyright © Health and Social Care Information Centre 2019.

These data show raw prevalence rates and unadjusted total numbers of people on GP patient registers in each area.

England totals include some 2017/18 data because several dozen practices were missing in 2018/19 (Cornwall & Devon)

For Scotland, adjustments have been made for areas where patients were missing from lists.

BHF CVD estimates based on latest prevalence data; NHS Digital/ISD Scotland/StatsWales/DH Northern Ireland and health surveys with CVD fieldwork: NHS Digital (England) and Scottish Government.

Source:

England - Health and Social Care Information Centre. QOF achievement data 2018/19
<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2018-19-pas>

Wales - StatsWales. QOF achievement data 2018/19
<https://gov.wales/general-medical-services-contract-quality-and-outcomes-framework-april-2018-march-2019>

Scotland - ISD Scotland. prevalence data 2018/19 obtained via personal communication

Northern Ireland - Department of Health, Social Services and Public Safety. QOF exception reporting data 2018/19
<https://www.health-ni.gov.uk/topics/doh-statistics-and-research/quality-outcomes-framework-qof>

Table 2.22 Prevalence of selected cardiovascular conditions, England 2004/05-2018/19[Back to Table of Contents](#)

	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	3.6	3.6	3.5	3.5	3.5	3.4	3.4	3.4	3.3	3.3	3.2	3.2	3.2	3.1	3.1
Stroke and TIA	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8
Atrial fibrillation			1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.7	1.8	1.9	2.0
Heart failure			0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.9

Notes:

CHD: Coronary Heart Disease.

TIA: Transient Ischaemic Attack.

Source:

England - Health and Social Care Information Centre. QOF achievement data,

<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2018-19-pas>

Table 2.23 Prevalence of selected cardiovascular conditions, Scotland 2008/09-2018/19[Back to Table of Contents](#)

	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
	%	%	%	%	%	%	%	%	%	%	%
CHD	4.4	4.4	4.4	4.4	4.3	4.3	4.1	4.1	4.0	4.0	3.9
Stroke and TIA	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3
Atrial fibrillation	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.9
Heart failure	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9

Notes:

CHD: Coronary Heart Disease.

TIA: Transient Ischaemic Attack.

Source:

Scotland - ISD Scotland. QOF achievement data to 2015/16. Prevalence data for 2016/17 to 2018/19 obtained via personal communication

Table 2.24 Prevalence of selected cardiovascular conditions, Wales 2006/07-2018/19[Back to Table of Contents](#)

	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	4.3	4.2	4.2	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.7	3.7	3.6
Stroke and TIA	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1
Atrial fibrillation	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.2	2.3
Heart failure	1.0	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1

Notes:

CHD: Coronary Heart Disease.

TIA: Transient Ischaemic Attack.

Source:

Wales - StatsWales. QOF achievement data

<https://gov.wales/general-medical-services-contract-quality-and-outcomes-framework-april-2018-march-2019>

Table 2.25 Prevalence of selected cardiovascular conditions, Northern Ireland 2004/05-2018/19[Back to Table of Contents](#)

	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	4.2	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.9	3.9	3.8	3.8	3.8	3.7	3.7
Stroke and TIA	1.4	1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9
Atrial fibrillation			1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.8	1.9	2.0
Heart failure			0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9

Notes:

CHD: Coronary Heart Disease.

TIA: Transient Ischaemic Attack.

Source:

Department of Health, Social Services and Public Safety. QOF exception reporting data 2018/19

<https://www.health-ni.gov.uk/topics/doh-statistics-and-research/quality-outcomes-framework-qof>

Table 2.26 Prevalence of selected cardiovascular conditions by gender, England 2003-2017[Back to Table of Contents](#)

		2003	2006	2011	2017
		%	%	%	%
Myocardial infarction	Men	3.8	4.1	3.7	3.8
	Women	1.7	1.7	1.6	1.3
	All adults	2.8	2.9	2.6	2.5
Angina	Men	4.8	4.8	3.9	3.2
	Women	3.4	3.3	2.5	2.1
	All adults	4.1	4.0	3.2	2.7
CHD	Men	6.4	6.5	5.7	5.6
	Women	4.1	4.0	3.5	2.8
	All adults	5.2	5.2	4.6	4.2
Stroke	Men	2.4	2.4	2.7	2.7
	Women	2.2	2.2	2.1	2.0
	All adults	2.3	2.3	2.4	2.4
Any CVD	Men	13.6	13.6	13.9	14.6
	Women	13.0	13.0	13.4	12.5
	All adults	13.3	13.3	13.6	13.5

Notes:

For adults aged 16 years and over. Data have been weighted for non-response.

CHD: Coronary heart disease, reported as doctor-diagnosed heart attack or angina.

CVD: Cardiovascular disease, i.e. doctor-diagnosed heart attack, angina, heart murmur, abnormal heart rhythm or stroke.

Where an "all adults" percentage was not available, a crude average of male/female values has been used.

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Source:

Health Survey for England 2017, NHS Digital (2018) (accessed December 2018).

<https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2017>

Table 2.27 Prevalence of selected cardiovascular conditions by gender, Scotland 2003-2018

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		2003	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
		%	%	%	%	%	%	%	%	%	%	%	%
CHD	Men	8.2	6.9	7.4	7.5	7.5	7.3	7.1	7.8	7.4	6.7	6.4	7.0
	Women	6.5	5.6	5.2	5.2	4.9	5.7	5.3	4.7	4.6	4.2	4.0	4.0
	All adults	7.3	6.2	6.2	6.3	6.2	6.5	6.1	6.2	6.0	5.4	5.2	5.0
Stroke	Men	2.4	2.5	2.7	3.3	2.9	2.8	3.2	3.3	2.6	3.2	3.2	2.0
	Women	2.1	2.8	2.2	2.5	2.7	2.8	2.7	3.1	2.6	2.7	2.8	3.0
	All adults	2.2	2.6	2.5	2.9	2.8	2.8	2.9	3.2	2.6	2.9	3.0	3.0
Any CVD	Men	14.9	15.1	15.2	16.3	15.6	16.6	15.7	18.2	15.6	15.5	16.2	16.0
	Women	14.5	15.5	13.7	14.0	13.8	15.9	15.3	13.8	14.5	15.0	14.6	16.0
	All adults	14.7	15.3	14.4	15.1	14.6	16.2	15.5	15.9	15.1	15.2	15.4	16.0

Notes:

For adults aged 16 years and over.

CHD: Coronary heart disease, reported as doctor-diagnosed heart attack or angina.

Any CVD: Any cardiovascular condition, including IHD (heart attack or angina), stroke, heart murmur, abnormal heart rhythm or 'other heart trouble' - excludes diabetes and high blood pressure.

Source:

The Scottish Government (2019). The Scottish Health Survey 2018.

<https://www2.gov.scot/Topics/Statistics/Browse/Health/scottish-health-survey>

Table 2.28 Prevalence of selected heart conditions and stroke by gender, Wales 2016/17-2018/19

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		2016/17	2017/18	2018/19
		%	%	%
Heart attack, angina	Men	1.3	1.3	1.3
	Women	1.1	1.1	1.1
	All adults	1.2	1.2	1.2
Other heart problems	Men	5.6	5.6	5.6
	Women	4.8	4.8	4.8
	All adults	5.2	5.2	5.2
Heart and Circulatory Conditions	Men	13.5	13.9	14.2
	Women	12.7	11.4	11.5
	All adults	13.1	12.6	12.8
Stroke/cerebral haemorrhage/thrombosis	Men	0.9	0.9	0.9
	Women	0.7	0.7	0.7
	All adults	0.8	0.8	0.8

Notes:

For adults aged 16 years and over.

The Welsh Health Survey was replaced with the National Survey for Wales from 2016-17 onwards.

Source:

National Survey for Wales: April 2018 to March 2019 (accessed November 2019)

<https://gov.wales/national-survey-wales-april-2018-march-2019>

Table 2.29 Prevalence of selected cardiovascular conditions by age group, England 2003 to 2017

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		2003 %	2006 %	2011 %	2017 %
CHD	16-24	0.1	0.1	-	0.2
	25-34	-	0.2	0.3	0.3
	35-44	0.7	0.5	0.7	0.4
	45-54	2.7	2.4	2.6	2.7
	55-64	8.4	7.0	6.3	4.8
	65-74	15.3	15.1	11.1	11.4
	75+	21.4	22.8	20.8	15.6
	All adults	5.2	5.2	4.6	4.2
Stroke	16-24	0.2	0.1	0.1	0.2
	25-34	0.3	0.1	0.2	0.3
	35-44	0.4	0.4	0.3	0.3
	45-54	1.1	1.0	1.4	2.2
	55-64	2.3	2.6	3.2	2.8
	65-74	6.4	5.6	5.7	5.1
	75+	10.6	11.6	10.6	8.8
	All adults	2.3	2.3	2.4	2.4
CHD or Stroke	16-24	0.3	0.2	0.1	0.5
	25-34	0.3	0.2	0.5	0.6
	35-44	1.1	0.8	1.0	0.6
	45-54	3.4	3.3	3.6	4.5
	55-64	10.1	8.7	8.5	7.0
	65-74	19.5	18.6	15.7	14.8
	75+	28.4	31.3	27.6	22.3
	All adults	6.8	6.8	6.3	6.0
Any CVD	16-34	4.9	4.5	4.6	4.8
	35-44	7.3	6.7	6.1	6.4
	45-54	10.5	10.6	10.6	10.8
	55-64	17.5	16.9	18.0	16.0
	65-74	28.1	27.7	29.0	27.2
	75+	39.6	40.7	41.7	37.1
	All adults	13.3	13.3	13.7	13.5

Notes:

For all adults aged 16 years and over.

CHD: Coronary heart disease, reported as doctor-diagnosed heart attack or angina.

CVD: Cardiovascular disease, i.e. doctor-diagnosed heart attack, angina, heart murmur, abnormal heart rhythm or stroke.

Data have been weighted for non-response.

Data for 'Any CVD' for the years 2003, 2006, and 2011 is calculated as the unweighted average of male/female data.

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Source:

Health Survey for England 2017, NHS Digital (2018) (accessed December 2018).

<https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2017>

Table 2.30 Prevalence of selected cardiovascular conditions by age group, Scotland 2003-2018[Back to Table of Contents](#)

		2003	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
		%	%	%	%	%	%	%	%	%	%	%	%
CHD	16-24	-	-	0.1	-	0.6	-	-	-	0.7	-	-	-
	25-34	0.6	-	0.2	0.5	0.1	0.3	0.3	0.5	0.4	-	0.1	0.0
	35-44	0.8	0.8	0.6	0.9	0.2	1.4	0.6	0.8	1.1	0.1	-	1.0
	45-54	4.3	2.7	3.0	3.5	4.3	2.7	2.5	3.7	3.8	2.4	2.8	4.0
	55-64	11.9	10.2	9.7	8.9	7.6	9.4	7.9	10.2	6.3	8.6	6.8	6.0
	65-74	21.1	18.7	17.2	18.6	17.6	17.5	16.3	15.1	13.6	13.3	13.1	12.0
	75+	26.0	22.8	24.2	22.3	23.7	25.0	26.7	21.2	25.0	21.4	20.5	19.0
	All adults	7.3	6.2	6.2	6.3	6.2	6.5	6.1	6.2	6.0	5.4	5.2	5.0
Stroke	16-24	0.1	0.0	0.1	0.1	-	-	-	-	-	0.3	-	-
	25-34	0.1	-	0.1	0.3	0.4	0.4	0.2	0.1	0.3	0.1	0.2	1.0
	35-44	0.8	0.9	0.6	1.3	0.4	0.9	0.6	0.5	0.8	0.2	1.0	0.0
	45-54	0.7	1.4	1.2	1.1	1.4	1.5	2.6	1.5	1.1	3.9	2.5	2.0
	55-64	3.3	3.2	2.8	4.5	3.6	3.4	4.4	4.9	4.0	2.7	3.9	4.0
	65-74	5.4	6.5	6.6	7.0	7.2	5.7	4.9	8.5	5.3	6.0	6.7	8.0
	75+	9.4	11.7	10.4	10.7	11.5	12.9	11.4	11.5	10.4	10.5	9.5	9.0
	All adults	2.2	2.6	2.5	2.9	2.8	2.8	2.9	3.2	2.6	2.9	3.0	3.0
Any CVD	16-24	3.7	5.7	4.1	5.1	5.5	4.6	5.9	4.9	5.5	5.0	4.5	4.0
	25-34	5.3	5.8	4.9	5.7	5.3	5.5	5.9	7.0	5.5	7.3	6.0	9.0
	35-44	7.2	7.9	7.4	8.1	5.4	10.6	7.0	9.2	7.5	8.6	7.2	8.0
	45-54	10.8	11.6	10.6	11.1	12.2	12.8	10.9	12.1	12.7	12.6	10.0	11.0
	55-64	20.3	20.4	19.0	19.0	16.5	19.4	19.8	20.5	18.5	17.9	19.7	19.0
	65-74	33.1	33.1	29.8	32.7	32.2	31.4	28.4	29.2	24.9	26.3	30.1	31.0
	75+	39.8	39.1	41.9	39.7	42.3	45.8	47.3	41.8	43.6	40.2	43.0	41.0
	All adults	14.7	15.3	14.4	15.1	14.6	16.2	15.5	15.9	15.1	15.2	15.4	16.0

Notes:

For all adults aged 16 years and over.

CHD: Coronary heart disease, reported as doctor-diagnosed heart attack or angina.

Any CVD: Any cardiovascular condition, including IHD (heart attack or angina), stroke, heart murmur, abnormal heart rhythm or 'other heart trouble' - excludes diabetes and high blood pressure.

Source:

The Scottish Government (2019). The Scottish Health Survey 2018.

<https://www2.gov.scot/Topics/Statistics/Browse/Health/scottish-health-survey>

Table 2.31 Prevalence of heart and circulatory complaints by gender and age group, Wales 2016/17-2018/19

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		2016/17	2017/18	2018/19
		%	%	%
Men	16-24	0.9	0.4	1.5
	25-34	0.7	1.3	1.6
	35-44	3.8	3.7	4.5
	45-54	11.1	10.1	10.2
	55-64	21.6	22.9	22.4
	65-74	32.1	30.9	31.5
	75+	34.0	37.3	36.5
	All adults	13.5	13.9	14.2
Women	16-24	2.7	2.3	2.6
	25-34	1.3	1.5	1.2
	35-44	4.9	3.5	4.2
	45-54	10.3	7.2	6.7
	55-64	17.3	15.3	12.7
	65-74	24.3	22.7	25.4
	75+	31.8	30.5	31.1
	All adults	12.7	11.4	11.5
Both	16-24	1.7	1.3	2.0
	25-34	1.1	1.4	1.4
	35-44	4.4	3.7	4.3
	45-54	10.7	8.6	8.4
	55-64	19.4	19.0	17.5
	65-74	28.1	26.7	28.4
	75+	32.8	33.5	33.4
	All adults	13.1	12.6	12.8

Notes: For all adults aged 16 years and over.

Source: National Survey for Wales: April 2018 to March 2019 (accessed November 2019)
<https://gov.wales/national-survey-wales-april-2018-march-2019>

Table 2.32 Prevalence of selected cardiovascular conditions by equivalised household income and gender, England 2017

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		Equivalised household income quintile				
		Highest %	2nd %	3rd %	4th	Lowest %
CHD	Men	4.2	5.7	8.8	7.8	12.3
	Women	4.3	1.7	3.8	5.0	4.1
	All adults	4.3	3.7	6.2	6.3	7.7
Stroke	Men	2.4	2.5	3.1	5.7	6.8
	Women	1.3	1.3	2.1	2.5	3.4
	All adults	1.9	1.9	2.6	4.0	4.9
Any CVD	Men	15.3	18.1	18.7	19.9	27.2
	Women	16.9	12.3	13.8	16.1	18.5
	All adults	16.0	15.2	16.2	17.9	22.3

Notes:

For all adults aged 35 years and over.

CHD: Coronary heart disease, reported as doctor-diagnosed heart attack or angina.

CVD: Cardiovascular disease, i.e. doctor-diagnosed heart attack, angina, heart murmur, abnormal heart rhythm or stroke.

Data in this table are age-standardised.

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Source:

Health Survey for England 2017, NHS Digital (2018) (accessed December 2018).

<https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2017>

Table 2.33 Prevalence of selected cardiovascular conditions by Index of Multiple Deprivation (IMD) and gender, England 2017/18

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		IMD Quintiles				
		Least deprived quintile	2nd	3rd	4th	Most deprived quintile
		%	%	%	%	%
Heart and circulatory system	Men	10.0	11.4	11.4	12.9	13.4
	Women	8.9	8.2	9.5	12.2	11.4
	All adults	9.4	9.8	10.5	12.5	12.4

Notes:

For all adults aged 16 years and over.

The definition of 'Heart and circulatory conditions' here is different to that of 'Any CVD' used in previous versions of the Health Survey for England.

For information on the Index of Multiple Deprivation and how it is derived, see the HSE 2018 Methods report.

Data in this table have been age-standardised. For more information see the HSE 2018 Methods report.

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Source:

Health Survey for England 2018, NHS Digital (2019) (accessed December 2019).

<https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2018>

Table 2.34 Prevalence of selected cardiovascular conditions by equivalised household income and gender, Scotland 2017

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		Equivalised household income quintile				
		Highest	2nd	3rd	4th	Lowest
		%	%	%		%
CHD	Men	3.9	6.2	7.0	9.6	10.7
	Women	1.3	1.9	4.8	3.8	6.2
	All adults	2.7	4.1	5.8	6.5	8.1
Stroke	Men	1.5	2.1	4.3	5.5	5.4
	Women	0.5	2.6	2.2	4.5	4.4
	All adults	1.0	2.3	3.2	5.0	4.8
Any CVD	Men	11.3	18.4	18.1	20.7	23.1
	Women	12.0	10.0	15.1	16.7	19.8
	All adults	11.6	14.4	16.5	18.5	21.2

Notes:

For all adults aged 16 years and over.

CHD: Coronary heart disease, reported as doctor-diagnosed heart attack or angina.

CVD: Cardiovascular disease, i.e. had cardiovascular condition; excludes high blood pressure

Source:

The Scottish Government (2018). The Scottish Health Survey 2017.□

<https://www2.gov.scot/Topics/Statistics/Browse/Health/scottish-health-survey>

Table 2.35 Prevalence of selected cardiovascular conditions by Scottish Index of Multiple Deprivation (SIMD) and gender, Scotland 2018

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		SIMD Quintiles				
		Least deprived quintile	2nd	3rd	4th	Most deprived quintile
		%	%	%	%	%
CHD	Men	5.0	6.0	6.0	9.0	8.0
	Women	2.0	2.0	3.0	5.0	7.0
	All adults	4.0	4.0	4.0	7.0	8.0
Stroke	Men	1.0	2.0	2.0	3.0	3.0
	Women	3.0	3.0	4.0	4.0	4.0
	All adults	2.0	2.0	3.0	3.0	4.0
Any CVD	Men	16.0	17.0	15.0	16.0	17.0
	Women	12.0	14.0	17.0	16.0	21.0
	All adults	14.0	15.0	16.0	16.0	19.0

Notes:

For all adults aged 16 years and over.

CHD: Coronary heart disease, reported as doctor-diagnosed heart attack or angina.

Any CVD: Any cardiovascular condition, including CHD (heart attack or angina), stroke, heart murmur, abnormal heart rhythm or 'other heart trouble' - excludes high blood pressure

Source:

The Scottish Government (2019). The Scottish Health Survey 2018.▯

<https://www2.gov.scot/Topics/Statistics/Browse/Health/scottish-health-survey>

Table 2.36 Prevalence of any cardiovascular condition by Scottish Index of Multiple Deprivation (SIMD) and gender, Scotland 2013-2018

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Any CVD	SIMD Quintiles	2003 %	2008 %	2009 %	2010 %	2011 %	2012 %	2013 %	2014 %	2015 %	2016 %	2017 %	2018 %
Men	Least deprived quintile	12.0	14.0	13.0	17.0	14.0	17.0	13.0	16.0	13.0	12.0	13.0	16.0
	2nd	16.0	14.0	15.0	18.0	14.0	18.0	16.0	17.0	17.0	16.0	15.0	17.0
	3rd	16.0	17.0	16.0	15.0	18.0	13.0	16.0	18.0	12.0	18.0	13.0	15.0
	4th	18.0	18.0	17.0	17.0	18.0	21.0	19.0	17.0	15.0	18.0	20.0	16.0
	Most deprived quintile	22.0	19.0	22.0	19.0	20.0	19.0	19.0	26.0	23.0	17.0	25.0	17.0
Women	Least deprived quintile	11.0	15.0	10.0	10.0	13.0	9.0	12.0	13.0	13.0	13.0	12.0	12.0
	2nd	14.0	15.0	12.0	14.0	13.0	15.0	13.0	12.0	13.0	13.0	12.0	14.0
	3rd	15.0	17.0	14.0	13.0	14.0	16.0	15.0	13.0	14.0	14.0	13.0	17.0
	4th	16.0	16.1	16.0	18.0	13.0	17.0	19.0	14.0	15.0	15.0	17.0	16.0
	Most deprived quintile	19.0	19.0	19.0	17.0	18.0	25.0	21.0	19.0	20.0	20.0	21.0	21.0
All Adults	Least deprived quintile	12.0	14.0	12.0	13.0	13.0	13.0	13.0	14.0	13.0	12.0	12.0	14.0
	2nd	15.0	14.0	14.0	16.0	13.0	17.0	14.0	14.0	15.0	14.0	13.0	15.0
	3rd	16.0	17.0	15.0	14.0	16.0	15.0	15.0	15.0	13.0	16.0	13.0	16.0
	4th	17.0	17.0	16.0	17.0	15.0	19.0	19.0	15.0	15.0	16.0	18.0	16.0
	Most deprived quintile	20.0	19.0	20.0	18.0	19.0	23.0	20.0	23.0	21.0	19.0	22.0	19.0

Notes: For all adults aged 16 years and over.

Any CVD: Any cardiovascular condition, including CHD (heart attack or angina), stroke, heart murmur, abnormal heart rhythm or 'other heart trouble' - excludes diabetes and high blood pressure

Source: The Scottish Government (2019). The Scottish Health Survey 2018.□

<https://www2.gov.scot/Topics/Statistics/Browse/Health/scottish-health-survey>

Table 2.37 Prevalence of selected cardiovascular conditions by age and gender, United Kingdom 2017

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Prevalance of selected heart and circulatory diseases by age and gender, UK 2017 (%)

Both	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.6	0.3	1.3	0.7	0.2	1.0	3.1
55-64 years	1.9	0.8	4.6	2.0	0.8	2.6	9.0
65-74 years	5.4	2.0	10.0	3.6	1.8	5.6	19.5
75+ years	14.3	5.9	18.8	6.1	3.5	12.8	38.2
Age-standardised for All Adults (aged 15 and above)	2.6	1.1	4.2	1.5	0.8	2.7	8.6
Men	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.9	0.4	2.0	1.1	0.2	1.1	4.1
55-64 years	2.7	1.1	6.9	3.3	1.1	3.0	12.2
65-74 years	7.4	2.9	14.5	5.7	2.7	6.6	25.9
75+ years	17.4	7.5	25.5	8.9	4.8	14.5	46.1
Age-standardised for All Adults (aged 15 and above)	3.4	1.4	6.0	2.4	1.1	3.1	10.9
Women	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.3	0.2	0.7	0.3	0.1	1.0	2.1
55-64 years	1.1	0.4	2.3	0.8	0.4	2.2	5.6
65-74 years	3.7	1.2	5.8	1.7	1.1	4.7	13.5
75+ years	12.1	4.8	13.9	4.0	2.5	11.6	32.4
Age-standardised for All Adults (aged 15 and above)	2.0	0.8	2.7	0.8	0.5	2.4	6.5

Note - UK prevalence calculated from population-weighted patient data from each UK nation

Source

The Health Improvement Network (THIN) 2020



Table 2.38 Prevalence of selected cardiovascular conditions by age and gender, England 2017[Back to Table of Contents](#)**Prevalence of selected heart and circulatory diseases by age and gender, England 2017 (%)**

Both	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.6	0.3	1.3	0.7	0.2	1.0	3.0
55-64 years	1.8	0.7	4.4	2.0	0.7	2.5	8.6
65-74 years	5.4	2.0	9.5	3.5	1.7	5.4	18.7
75+ years	14.2	5.8	18.1	5.9	3.3	12.4	37.2
Age-standardised for All Adults (aged 15 and above)	2.6	1.0	4.0	1.5	0.7	2.6	8.3
Men	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.9	0.4	1.9	1.0	0.2	1.0	3.9
55-64 years	2.6	1.1	6.7	3.2	1.0	2.8	11.8
65-74 years	7.3	2.8	14.0	5.5	2.5	6.4	25.1
75+ years	17.2	7.4	24.8	8.6	4.6	14.0	45.1
Age-standardised for All Adults (aged 15 and above)	3.4	1.4	5.8	2.3	1.0	3.0	10.6
Women	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.3	0.1	0.6	0.3	0.1	1.0	2.0
55-64 years	1.1	0.4	2.2	0.8	0.4	2.1	5.3
65-74 years	3.6	1.2	5.3	1.6	0.9	4.5	12.8
75+ years	12.0	4.7	13.2	3.9	2.3	11.2	31.4
Age-standardised for All Adults (aged 15 and above)	2.0	0.7	2.5	0.8	0.4	2.3	6.2

Source

The Health Improvement Network (THIN) 2020

Table 2.39 Prevalence of selected cardiovascular conditions by age and gender, Scotland 2017[Back to Table of Contents](#)**Prevalence of selected heart and circulatory diseases by age and gender, Scotland 2017 (%)**

Both	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.6	0.3	1.8	1.0	0.3	1.3	3.8
55-64 years	1.9	0.9	5.9	2.5	1.2	3.5	11.2
65-74 years	5.7	2.5	13.1	4.6	2.9	7.3	24.1
75+ years	14.6	6.3	23.0	7.2	4.9	16.0	44.2
Age-standardised for All Adults (aged 15 and above)	2.7	1.2	5.3	1.9	1.1	3.5	10.3
Men	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.9	0.4	2.6	1.5	0.4	1.4	5.0
55-64 years	2.8	1.3	8.3	4.0	1.7	3.9	14.8
65-74 years	7.7	3.5	17.7	6.9	4.1	8.5	30.6
75+ years	17.9	8.2	29.3	10.5	6.6	17.7	52.0
Age-standardised for All Adults (aged 15 and above)	3.5	1.6	7.1	2.9	1.5	3.9	12.7
Women	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.3	0.2	1.0	0.5	0.2	1.2	2.7
55-64 years	1.0	0.6	3.6	1.2	0.8	3.0	7.7
65-74 years	3.9	1.5	9.0	2.5	1.9	6.2	18.0
75+ years	12.4	5.0	18.5	4.9	3.7	14.7	38.6
Age-standardised for All Adults (aged 15 and above)	2.0	0.9	3.8	1.1	0.8	3.1	8.1

Source

The Health Improvement Network (THIN) 2020



Table 2.40 Prevalence of selected cardiovascular conditions by age and gender, Wales 2017[Back to Table of Contents](#)**Prevalence of selected heart and circulatory diseases by age and gender, Wales 2017 (%)**

Both	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.7	0.3	1.5	0.8	0.2	1.2	3.4
55-64 years	2.1	0.9	4.9	2.2	0.9	2.9	9.8
65-74 years	5.7	2.5	11.1	3.8	2.1	6.4	21.4
75+ years	15.2	6.7	20.6	6.4	3.3	14.3	41.2
Age-standardised for All Adults (aged 15 and above)	2.8	1.3	4.6	1.6	0.8	3.1	9.4
Men	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	1.0	0.5	2.2	1.3	0.2	1.2	4.5
55-64 years	2.9	1.3	6.9	3.3	1.3	3.3	13.0
65-74 years	7.4	3.5	15.3	5.9	3.0	7.4	27.5
75+ years	18.5	7.8	26.4	9.2	4.6	16.2	48.6
Age-standardised for All Adults (aged 15 and above)	3.6	1.6	6.2	2.5	1.1	3.5	11.6
Women	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.3	0.2	0.8	0.4	0.1	1.1	2.3
55-64 years	1.2	0.4	2.9	1.0	0.4	2.5	6.6
65-74 years	4.0	1.6	7.2	1.9	1.2	5.4	15.7
75+ years	12.7	5.8	16.2	4.3	2.4	12.8	35.6
Age-standardised for All Adults (aged 15 and above)	2.1	0.9	3.2	0.9	0.5	2.7	7.3

Source

The Health Improvement Network (THIN) 2020



Table 2.41 Prevalence of selected cardiovascular conditions by age and gender, Northern Ireland 2017[Back to Table of Contents](#)**Prevalence of selected heart and circulatory diseases by age and gender, Northern Ireland 2017 (%)**

Both	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.7	0.2	1.6	0.7	0.3	1.3	3.8
55-64 years	2.2	0.9	6.0	2.3	1.9	3.2	11.9
65-74 years	6.0	2.5	13.4	4.3	3.7	6.6	24.7
75+ years	17.1	8.0	24.5	7.5	5.3	14.7	45.6
Age-standardised for All Adults (aged 15 and above)	3.1	1.4	5.5	1.8	1.4	3.2	10.6
Men	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	1.1	0.3	2.4	1.1	0.4	1.3	4.9
55-64 years	3.1	1.3	9.1	3.6	2.3	3.5	15.9
65-74 years	8.0	3.4	18.9	6.7	4.9	7.7	32.0
75+ years	20.7	10.1	32.8	11.4	6.9	16.4	54.4
Age-standardised for All Adults (aged 15 and above)	4.0	1.8	7.7	2.8	1.8	3.6	13.3
Women	Atrial fibrillation	Heart failure	CHD	Myocardial infarction	PVD	Stroke & TIA	Any of these conditions
45-54 years	0.4	0.2	0.9	0.4	0.3	1.3	2.8
55-64 years	1.3	0.5	2.9	0.9	1.5	2.8	7.9
65-74 years	4.2	1.6	8.4	2.1	2.5	5.5	17.8
75+ years	14.6	6.7	18.8	4.8	4.3	13.5	39.4
Age-standardised for All Adults (aged 15 and above)	2.4	1.0	3.7	1.0	1.0	2.9	8.3

Source

The Health Improvement Network (THIN) 2020



Table 2.42 Prevalence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD) by nation and region, United Kingdom 2017

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Nation	English Region	Prevalence A/S CVD 2017 est	Prevalence A/S CHD 2017 est	Prevalence Stroke A/S 2017
	East Midlands	6,257	1,836	847
	East of England	6,195	1,809	807
	Greater London	6,270	1,799	777
	North East England	6,452	1,972	894
	North West England	6,430	1,965	893
	South East England	5,977	1,727	784
	South West England	6,162	1,815	828
	West Midlands	6,270	1,854	885
	Yorkshire and the Humber	6,296	1,946	895
<i>England</i>		<i>6,225</i>	<i>1,845</i>	<i>838</i>
<i>Scotland</i>		<i>6,044</i>	<i>1,716</i>	<i>1,143</i>
<i>Wales</i>		<i>6,069</i>	<i>1,519</i>	<i>963</i>
<i>Northern Ireland</i>		<i>6,152</i>	<i>1,756</i>	<i>932</i>
United Kingdom		6,200	1,814	873

Notes: All figures are estimates. A/S = age standardised rate per 100,000 inhabitants.
 ICD-10 codes for Cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1
 ICD-10 codes for Coronary Heart disease (CHD) I20-I25.9
 ICD-10 codes for Stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Source: Global Health Data Exchange, GBD Results Tool <http://ghdx.healthdata.org/gbd-results-tool>

Table 2.43 Prevalence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), 2017

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Region	Country	Prevalence CVD 2017 est	Prevalence A/S CVD 2017 est	Prevalence CHD 2017 est	Prevalence A/S CHD 2017 est	Prevalence Stroke 2017 est	Prevalence Stroke A/S 2017
GLOBAL		485,620,950	6,082	126,451,501	1,584	104,178,740	1,301
EUROPE		94,278,551	6,469	30,009,335	1,991	17,388,205	1,188
	Austria	1,081,632	6,545	252,257	1,457	157,170	973
	Belgium	1,415,337	6,916	330,987	1,503	189,028	899
	Czech Republic	1,634,317	8,457	529,504	2,651	271,565	1,364
	Denmark	670,672	6,402	169,131	1,525	94,796	913
	Finland	696,445	6,234	201,294	1,729	118,997	1,097
	France	7,967,253	6,502	1,771,918	1,365	996,829	808
	Germany	11,214,341	6,607	2,859,127	1,571	1,686,220	985
	Greece	1,272,696	5,867	344,612	1,482	208,221	955
	Hungary	1,374,423	7,513	526,504	2,837	273,775	1,480
	Ireland	417,116	5,972	107,008	1,489	62,227	897
	Italy	7,488,554	5,683	2,101,870	1,528	751,494	570
	Netherlands	1,930,231	6,178	596,495	1,821	288,713	928
	Norway	467,708	5,254	128,916	1,397	110,388	1,243
	Poland	4,789,461	7,239	1,621,893	2,409	847,040	1,260
	Portugal	1,199,336	5,651	265,660	1,156	193,217	898
	Romania	2,523,593	7,052	924,521	2,552	623,969	1,724
	Russian Federation	14,678,457	6,399	6,137,088	2,638	4,072,141	1,767
	Spain	4,879,330	5,533	1,268,026	1,371	778,043	885
	Sweden	1,269,825	6,763	387,553	1,976	194,484	1,047
	Switzerland	883,964	5,579	221,866	1,338	117,781	747
	Ukraine	4,802,205	6,303	2,071,761	2,669	1,350,793	1,779
	United Kingdom #	7,178,911	6,200	2,224,182	1,814	1,015,201	873
	England #	6,013,218	6,225	1,887,709	1,845	814,371	838
	Scotland #	607,917	6,044	182,254	1,716	113,791	1,143
	Wales #	369,301	6,069	97,970	1,519	58,615	963
	Northern Ireland #	188,476	6,152	56,249	1,756	28,424	932
NORTH AMERICA		41,895,335	7,220	10,357,085	1,721	8,488,300	1,496
	Canada	4,206,803	6,781	840,370	1,274	709,411	1,166
	United States	37,681,554	7,276	9,514,750	1,776	7,777,757	1,536
LATIN AMERICA & CARIBBEAN		33,920,858	5,893	8,750,283	1,532	5,713,417	992
	Brazil	13,702,303	6,025	3,570,467	1,564	2,593,370	1,133
ASIA		264,390,717	5,673	64,814,807	1,403	63,788,339	1,366
	China	106,670,347	5,632	22,780,320	1,188	33,811,146	1,757
	India	59,232,347	5,214	16,532,233	1,529	9,861,814	861
	Japan	15,645,707	5,303	3,759,290	1,118	3,713,230	1,267
	Turkey	5,833,806	6,636	1,946,080	2,228	1,103,909	1,260
	United Arab Emirates	414,560	6,917	125,206	2,562	103,891	1,920
AFRICA		44,523,716	6,258	11,078,114	1,827	7,396,261	1,117
	South Africa	2,764,821	6,059	674,356	1,546	474,815	1,064
AUSTRALASIA		2,300,815	4,946	745,422	1,563	337,100	728
	Australia	1,935,265	4,946	616,895	1,537	284,034	727
	New Zealand	365,550	4,951	128,527	1,702	53,065	738

Notes: All figures are modelled estimates. For UK patient data please consult earlier tables in this chapter.

A/S = age standardised rate per 100,000 inhabitants.

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9

ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Regions and countries as defined by the Global Health Data Exchange <http://ghdx.healthdata.org/countries>

Source: Global Health Data Exchange, GBD Results Tool <http://ghdx.healthdata.org/gbd-results-tool>

Table 2.44 Percentage of coronary heart disease (CHD) patients with selected comorbidities 4N and UK, 2018

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	THIN base	% of CHD patients with each comorbidity																				
		Atrial fibrillation (AF)	Heart failure (HF)	Stroke/transient ischaemic attack (TIA)	Peripheral vascular disease (PVD)	Hypertension (HBP; high blood pressure)	Diabetes	Dementia	Dementia and/or Stroke	HBP and/or Dementia	HBP and/or Stroke	HF and/or Dementia	HF and/or Stroke	Diabetes and/or Dementia and/or Stroke	HF and/or Stroke and/or Dementia	HBP and/or Stroke and/or Dementia	AF and/or Stroke and/or Dementia	Any CVD* comorbidity	Any CVD* comorbidity or HBP	Any CVD* comorbidity or HBP or Dementia	Any comorbidity (at least 1) #	3 or more comorbidities #
England	33,525	16.2%	13.3%	12.8%	5.7%	55.8%	28.1%	5.5%	16.8%	57.8%	59.9%	18.0%	23.6%	39.5%	27.1%	61.4%	28.5%	35.3%	68.5%	69.6%	91.8%	56.6%
Wales	24,343	16.4%	14.3%	13.6%	5.6%	56.6%	29.4%	3.8%	16.2%	57.9%	60.9%	17.5%	25.4%	40.2%	27.6%	61.8%	28.2%	37.0%	69.7%	70.4%	93.2%	60.2%
Scotland	36,201	14.9%	13.0%	14.2%	7.3%	51.4%	25.3%	4.6%	17.3%	53.1%	56.5%	16.9%	24.7%	37.3%	27.4%	57.7%	28.0%	36.7%	66.3%	67.2%	92.5%	58.4%
Northern Ireland	10,102	16.8%	13.5%	13.7%	8.2%	55.8%	28.3%	4.8%	17.2%	57.7%	60.2%	17.6%	24.4%	39.7%	27.4%	61.7%	29.5%	37.8%	69.6%	70.6%	93.2%	62.7%
UK estimate		16.1%	13.4%	12.9%	5.9%	55.5%	27.9%	5.3%	16.9%	57.4%	59.6%	17.8%	23.8%	39.4%	27.1%	61.1%	28.5%	35.6%	68.4%	69.5%	92.0%	57.1%

Notes:

* CVD here includes: atrial fibrillation (AF), heart failure (HF), stroke/TIA and peripheral vascular disease (PVD) # including other long term conditions not shown

UK prevalence calculated from population-weighted patient data from each UK nation, comorbidities Jan 2018

Source

The Health Improvement Network (THIN) 2019



Table 2.45 Percentage of coronary heart disease (CHD) patients with selected comorbidities by age band, UK 2018

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Age band	THIN base	% of CHD patients with each comorbidity																				
		Atrial fibrillation (AF)	Heart failure (HF)	Stroke/transient ischaemic attack (TIA)	Peripheral vascular disease (PVD)	Hyper-tension (HBP; high blood pressure)	Diabetes	Dementia	Dementia and/or Stroke	HBP and/or Dementia	HBP and/or Stroke	HF and/or Dementia	HF and/or Stroke	Diabetes and/or Dementia and/or Stroke	HF and/or Stroke and/or Dementia	HBP and/or Stroke and/or Dementia	AF and/or Stroke and/or Dementia	Any CVD* comorbidity	Any CVD* comorbidity or HBP	Any CVD* comorbidity or HBP or Dementia	Any comorbidity (at least 1) #	3 or more comorbidities #
45-54	6,383	3.5%	8.5%	5.1%	2.3%	29.8%	22.0%	0.2%	5.3%	29.9%	32.7%	8.7%	12.8%	25.6%	12.9%	32.8%	8.2%	16.8%	40.4%	40.5%	81.1%	32.1%
55-64	17,880	6.1%	8.8%	7.8%	5.1%	41.4%	26.4%	0.4%	8.1%	41.6%	44.7%	9.2%	15.5%	31.5%	15.8%	44.9%	13.2%	22.9%	53.2%	53.4%	86.3%	42.4%
65-74	31,918	12.7%	11.5%	11.1%	6.8%	53.8%	29.0%	1.9%	12.5%	54.6%	57.9%	13.2%	20.9%	37.0%	22.2%	58.6%	22.8%	32.6%	67.1%	67.6%	92.1%	55.2%
75+	46,955	23.7%	17.3%	18.8%	7.5%	64.0%	27.7%	9.0%	25.1%	67.1%	69.4%	24.8%	32.2%	45.2%	37.6%	71.8%	41.1%	47.3%	79.1%	80.8%	97.1%	71.5%

Notes:

* CVD here includes: atrial fibrillation (AF), heart failure (HF), stroke/TIA and peripheral vascular disease (PVD); comorbidities Jan 2018 # including other long term conditions not shown

Source

The Health Improvement Network (THIN) 2019

Table 2.46 Percentage of coronary heart disease (CHD) patients with selected comorbidities by Townsend score, UK 2018

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Townsend	THIN base	% of CHD patients with each comorbidity																				
		Atrial fibrillation (AF)	Heart failure (HF)	Stroke/ transient ischaemic attack (TIA)	Peripheral vascular disease (PVD)	Hypertension (HBP; high blood pressure)	Diabetes	Dementia	Dementia and/or Stroke	HBP and/or Dementia	HBP and/or Stroke	HF and/or Dementia	HF and/or Stroke	Diabetes and/or Dementia and/or Stroke	HF and/or Stroke and/or Dementia	HBP and/or Stroke and/or Dementia	AF and/or Stroke and/or Dementia	Any CVD* comorbidity	Any CVD* comorbidity or HBP	Any CVD* comorbidity or HBP or Dementia	Any comorbidity (at least 1) #	3 or more comorbidities #
1 (Least deprived)	15,870	16.5%	12.3%	12.5%	4.9%	52.9%	23.4%	4.6%	15.8%	54.7%	57.1%	16.3%	22.5%	34.7%	25.4%	58.5%	27.9%	34.3%	66.2%	67.2%	90.7%	53.2%
2	18,137	16.9%	13.7%	13.1%	5.5%	54.0%	24.8%	5.0%	16.7%	55.9%	58.4%	17.8%	24.2%	36.5%	27.3%	59.9%	28.9%	36.2%	68.0%	68.9%	91.7%	55.2%
3	18,603	16.4%	13.8%	13.5%	6.7%	55.3%	27.7%	4.6%	16.7%	56.9%	59.7%	17.7%	24.8%	39.1%	27.5%	60.8%	28.7%	37.0%	69.0%	69.7%	92.9%	59.0%
4	17,270	15.2%	13.7%	14.1%	7.6%	55.2%	30.2%	4.7%	17.5%	56.8%	59.8%	17.7%	25.3%	41.6%	28.2%	61.1%	28.6%	37.4%	68.7%	69.6%	93.8%	62.6%
5 (Most deprived)	13,286	14.3%	14.0%	15.1%	9.0%	53.3%	31.7%	4.4%	18.2%	54.8%	58.7%	17.7%	26.4%	43.2%	29.1%	59.9%	28.2%	38.5%	68.5%	69.3%	94.2%	65.5%

Notes:

* CVD here includes: atrial fibrillation (AF), heart failure (HF), stroke/TIA and peripheral vascular disease (PVD); comorbidities Jan 2018 # including other long term conditions not shown

Townsend score is a deprivation indicator based on patient postcode

Source

The Health Improvement Network (THIN) 2019

Table 2.47 Percentage of coronary heart disease (CHD) patients with selected comorbidities by age band and BMI category, UK 2018

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Age	BMI category	THIN base	% of CHD patients with each comorbidity by BMI category and age																				
			Atrial fibrillation (AF)	Heart failure (HF)	Stroke/ transient ischaemic attack (TIA)	Peripheral vascular disease (PVD)	Hyper-tension (HBP; high blood pressure)	Diabetes	Dementia	Dementia and/or Stroke	HBP and/or Dementia	HBP and/or Stroke	HF and/or Dementia	HF and/or Stroke	Diabetes and/or Dementia and/or Stroke	HF and/or Stroke and/or Dementia	HBP and/or Stroke and/or Dementia	AF and/or Stroke and/or Dementia	Any CVD* comorbidity	Any CVD* comorbidity or HBP	Any CVD* comorbidity or HBP or Dementia	Any comorbidity (at least 1) #	3 or more comorbidities #
65-74	Not obese	18,436	11.2%	10.7%	10.7%	7.2%	48.1%	22.2%	1.9%	12.1%	49.0%	52.6%	12.4%	20.0%	30.8%	21.2%	53.4%	21.1%	31.0%	62.6%	63.1%	90.3%	49.7%
	Obese	12,690	15.1%	12.9%	11.7%	6.2%	63.1%	39.9%	1.8%	13.0%	63.7%	66.4%	14.4%	22.5%	46.7%	23.7%	67.0%	25.4%	35.3%	74.5%	74.9%	95.4%	64.2%
75+	Not obese	33,449	23.2%	16.6%	18.7%	7.7%	61.8%	24.1%	9.2%	25.2%	65.2%	67.5%	24.4%	31.6%	42.6%	37.2%	70.1%	40.8%	46.8%	77.7%	79.5%	96.8%	69.4%
	Obese	11,892	25.0%	19.1%	18.1%	7.1%	71.2%	39.2%	6.1%	22.2%	72.7%	75.4%	24.0%	33.0%	51.9%	36.4%	76.5%	39.9%	48.3%	83.5%	84.2%	98.2%	77.9%

Notes:

* CVD here includes: atrial fibrillation (AF), heart failure (HF), stroke/TIA and peripheral vascular disease (PVD); comorbidities Jan 2018 # including other long term conditions not shown

BMI = Body Mass Index - obesity is a BMI score of 30 or more

Source

The Health Improvement Network (THIN) 2019

Table 2.48 Percentage of stroke (CBVD) patients with selected comorbidities 4N and UK, 2018

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	THIN base	% of stroke patients with each comorbidity																				
		Atrial fibrillation (AF)	Heart failure (HF)	Coronary heart disease (CHD)	Peripheral vascular disease (PVD)	Hyper-tension (HBP; high blood pressure)	Diabetes	Dementia	Dementia and/or CHD	HBP and/or Dementia	HBP and/or CHD	HF and/or Dementia	HF and/or CHD	HF and/or CHD and/or Dementia	HBP and/or CHD and/or Dementia	AF and/or CHD and/or Dementia	Diabetes and/or Dementia and/or CHD	Any CVD* comorbidity	Any CVD* comorbidity or HBP	Any CVD* comorbidity or HBP or Dementia	Any comorbidity (at least 1) #	3 or more comorbidities #
England	22,773	18.3%	7.0%	18.8%	4.0%	58.2%	21.4%	8.8%	25.5%	61.2%	64.1%	15.0%	22.1%	28.4%	66.5%	36.9%	39.2%	34.7%	69.5%	71.3%	92.7%	58.5%
Wales	16,370	17.9%	7.0%	20.2%	4.8%	59.6%	22.7%	6.7%	25.2%	61.7%	65.9%	13.1%	23.6%	28.2%	67.5%	36.2%	39.8%	36.2%	71.1%	72.4%	93.9%	60.8%
Scotland	23,914	16.0%	6.3%	21.5%	6.2%	56.1%	20.7%	8.1%	27.4%	59.3%	63.8%	13.8%	24.1%	29.7%	66.3%	36.8%	40.0%	36.2%	69.0%	71.0%	93.7%	60.5%
Northern Ireland	6,025	17.6%	8.7%	22.9%	7.0%	57.9%	21.3%	8.1%	28.8%	60.7%	65.2%	16.0%	27.0%	32.4%	67.3%	39.2%	41.0%	39.4%	70.6%	72.2%	94.2%	64.2%
UK estimate		18.1%	7.0%	19.2%	4.3%	58.1%	21.4%	8.6%	25.7%	61.1%	64.2%	14.8%	22.5%	28.6%	66.6%	36.9%	39.3%	35.0%	69.5%	71.4%	92.9%	58.9%

Notes

* CVD here includes: coronary heart disease (CHD), atrial fibrillation (AF), heart failure (HF) and peripheral vascular disease (PVD) # including other long term conditions not shown

UK prevalence calculated from population-weighted patient data from each UK nation; comorbidities Jan 2018

Source

The Health Improvement Network (THIN) 2019

Table 2.49 Percentage of stroke (CBVD) patients with selected comorbidities by age band, UK 2018

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Age band	THIN base	% of stroke patients with each comorbidity																				
		Atrial fibrillation (AF)	Heart failure (HF)	Coronary heart disease (CHD)	Peripheral vascular disease (PVD)	Hyper-tension (HBP; high blood pressure)	Diabetes	Dementia	Dementia and/or CHD	HBP and/or Dementia	HBP and/or CHD	HF and/or Dementia	HF and/or CHD	HF and/or CHD and/or Dementia	HBP and/or CHD and/or Dementia	AF and/or CHD and/or Dementia	Diabetes and/or Dementia and/or CHD	Any CVD* comorbidity	Any CVD* comorbidity or HBP	Any CVD* comorbidity or HBP or Dementia	Any comorbidity (at least 1) #	3 or more comorbidities #
45-54	5,024	3.0%	2.4%	6.5%	1.3%	31.5%	14.0%	0.4%	6.9%	31.8%	35.2%	2.7%	7.8%	8.1%	35.5%	9.2%	18.7%	10.7%	37.8%	38.0%	82.8%	33.1%
55-64	10,623	6.6%	3.5%	13.1%	3.9%	46.4%	20.2%	1.3%	14.2%	47.0%	52.1%	4.7%	14.8%	15.9%	52.7%	19.3%	29.4%	21.6%	56.4%	56.9%	89.3%	47.2%
65-74	18,297	13.9%	5.3%	19.4%	5.7%	57.9%	23.5%	3.8%	22.4%	59.7%	65.1%	8.8%	21.7%	24.6%	66.6%	32.0%	38.0%	33.4%	70.7%	71.9%	94.0%	57.5%
75+	32,889	26.1%	10.0%	26.8%	6.3%	68.5%	23.0%	14.2%	37.1%	73.2%	76.2%	22.8%	31.3%	41.0%	79.8%	51.9%	49.6%	48.1%	82.2%	85.0%	97.6%	73.0%

Notes

* CVD here includes: coronary heart disease (CHD), atrial fibrillation (AF), heart failure (HF) and peripheral vascular disease (PVD); comorbidities Jan 2018 # including other long term conditions not shown

Source

The Health Improvement Network (THIN) 2019

Table 2.50 Percentage of stroke (CBVD) patients with selected comorbidities by Townsend score, UK 2018

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Townsend score	THIN base	% of stroke patients with each comorbidity																				
		Atrial fibrillation (AF)	Heart failure (HF)	Coronary heart disease (CHD)	Peripheral vascular disease (PVD)	Hypertension (HBP; high blood pressure)	Diabetes	Dementia	Dementia and/or CHD	HBP and/or Dementia	HBP and/or CHD	HF and/or Dementia	HF and/or CHD	HF and/or CHD and/or Dementia	HBP and/or CHD and/or Dementia	AF and/or CHD and/or Dementia	Diabetes and/or Dementia and/or CHD	Any CVD* comorbidity	Any CVD* comorbidity or HBP	Any CVD* comorbidity or HBP or Dementia	Any comorbidity (at least 1) #	3 or more comorbidities #
1 (Least deprived)	10,602	19.6%	6.7%	18.6%	3.9%	56.6%	18.6%	7.7%	24.5%	59.4%	63.0%	13.7%	21.9%	27.4%	65.1%	37.1%	36.5%	35.4%	69.2%	70.8%	92.4%	56.3%
2	12,178	18.3%	7.0%	19.5%	4.5%	57.8%	19.5%	8.6%	26.0%	61.0%	64.4%	14.7%	22.6%	28.8%	67.0%	37.2%	38.1%	35.5%	69.8%	71.9%	92.6%	58.1%
3	12,540	17.9%	7.2%	20.1%	4.9%	58.9%	20.8%	8.2%	26.2%	61.9%	65.3%	14.7%	23.5%	29.2%	67.7%	37.2%	39.3%	35.9%	70.5%	72.4%	93.3%	60.3%
4	11,148	15.8%	7.1%	21.9%	6.4%	58.4%	24.6%	7.5%	27.3%	61.0%	65.6%	14.0%	25.1%	30.3%	67.6%	36.9%	42.8%	37.0%	70.3%	71.9%	94.7%	63.5%
5 (Most deprived)	8,504	14.7%	6.8%	23.6%	7.7%	55.6%	24.9%	7.3%	28.9%	58.0%	64.1%	13.5%	26.3%	31.3%	66.0%	36.9%	43.5%	37.8%	69.1%	70.6%	95.1%	65.7%

Notes

* CVD here includes: coronary heart disease (CHD), atrial fibrillation (AF), heart failure (HF) and peripheral vascular disease (PVD); comorbidities Jan 2018 # including other long term conditions not shown

Townsend score is a deprivation indicator based on patient postcode

Source

The Health Improvement Network (THIN) 2019

Table 2.51 Percentage of stroke (CBVD) patients with selected comorbidities by age band and BMI category, UK 2018

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Age	BMI category	THIN base	% of Stroke patients with each comorbidity by BMI category and age																				
			Atrial fibrillation (AF)	Heart failure (HF)	Coronary heart disease (CHD)	Peripheral vascular disease (PVD)	Hyper-tension (HBP; high blood pressure)	Diabetes	Dementia	Dementia and/or CHD	HBP and/or Dementia	HBP and/or CHD	HF and/or Dementia	HF and/or CHD	HF and/or CHD and/or Dementia	HBP and/or CHD and/or Dementia	AF and/or CHD and/or Dementia	Diabetes and/or Dementia and/or CHD	Any CVD* comorbidity	Any CVD* comorbidity or HBP	Any CVD* comorbidity or HBP or dementia	Any comorbidity (at least 1) #	3 or more comorbidities #
65-74	Not obese	11,228	12.3%	4.4%	17.6%	6.2%	53.0%	17.5%	3.7%	20.5%	54.9%	60.5%	8.0%	19.5%	22.4%	62.1%	29.2%	32.3%	30.9%	66.5%	67.8%	92.9%	53.4%
	Obese	6,308	16.8%	7.0%	23.5%	5.1%	68.3%	35.8%	3.4%	26.0%	69.5%	75.1%	10.1%	26.4%	28.8%	76.1%	37.4%	49.6%	38.9%	79.8%	80.6%	96.9%	67.1%
75+	Not obese	23,811	25.5%	9.5%	26.3%	6.4%	66.9%	20.2%	13.9%	36.5%	71.7%	74.9%	22.1%	30.6%	40.1%	78.6%	51.0%	47.5%	47.4%	81.3%	84.1%	97.4%	71.5%
	Obese	7,164	28.3%	12.3%	30.0%	6.2%	76.4%	34.7%	11.0%	37.7%	78.9%	83.2%	21.9%	35.4%	42.5%	85.2%	53.4%	56.6%	52.2%	87.6%	89.1%	98.9%	80.3%

Notes

* CVD here includes: coronary heart disease (CHD), atrial fibrillation (AF), heart failure (HF) and peripheral vascular disease (PVD); comorbidities Jan 2018 # including other long term conditions not shown

BMI = Body Mass Index - obesity is a BMI score of 30 or more

Source

The Health Improvement Network (THIN) 2019

Table 2.52 Percentage of heart failure (HF) patients with selected comorbidities 4N and UK, 2018

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		THIN HF base	% of HF patients with each comorbidity																								
			Atrial fibrillation (AF)	Coronary heart disease (CHD)	Stroke/transient ischaemic attack (TIA)	Peripheral vascular disease (PVD)	Hypertension (HBP; high blood pressure)	Diabetes	Dementia	CHD and/or Stroke	CHD and/or HBP	CHD and/or Dementia	Dementia and/or stroke	HBP and/or dementia	HBP and/or stroke	HBP and/or stroke and/or dementia	AF and/or stroke and/or dementia	Diabetes and/or dementia and/or stroke	Diabetes and/or dementia and/or CHD	Any CVD* comorbidity	Any CVD* comorbidity and/or HBP	Any CVD* comorbidity and/or HBP and/or Dementia	Anxiety	Depression	Serious Mental Illness (SMI)	Anxiety and/or depression and/or SMI	Any comorbidity (at least 1) #
England	8,793	44.1%	48.7%	17.6%	7.1%	58.8%	28.9%	6.5%	56.9%	77.8%	51.8%	22.0%	60.7%	64.4%	65.8%	54.6%	43.7%	62.9%	78.3%	89.5%	89.8%	17.3%	26.8%	2.3%	32.6%	97.8%	77.0%
Wales	6,620	42.4%	50.1%	16.7%	6.3%	59.2%	31.7%	4.5%	58.2%	78.9%	52.5%	19.5%	60.6%	64.2%	65.2%	52.1%	44.8%	65.2%	78.8%	89.8%	90.1%	18.5%	29.1%	2.9%	34.8%	97.9%	77.4%
Scotland	7,970	39.8%	56.8%	18.4%	9.2%	55.2%	28.5%	5.5%	64.4%	81.4%	59.3%	22.0%	57.0%	61.7%	63.0%	51.1%	43.2%	69.1%	81.8%	91.4%	91.6%	19.9%	29.4%	2.6%	35.2%	98.2%	76.7%
Northern Ireland	2,508	46.7%	51.8%	20.2%	9.3%	59.1%	31.0%	6.9%	61.3%	80.4%	55.7%	25.0%	61.7%	65.8%	67.6%	58.3%	47.3%	67.5%	82.1%	91.5%	92.0%	16.6%	30.4%	2.0%	35.4%	98.5%	81.6%
UK estimate		43.7%	49.5%	17.7%	7.3%	58.5%	29.1%	6.3%	57.7%	78.3%	52.6%	21.9%	60.5%	64.2%	65.6%	54.3%	43.8%	63.7%	78.7%	89.7%	90.0%	17.6%	27.2%	2.4%	33.0%	97.8%	77.1%

Notes:

* CVD here includes: coronary heart disease (CHD), atrial fibrillation (AF), stroke/TIA and peripheral vascular disease (PVD) # including other long term conditions not shown
UK prevalence calculated from population-weighted patient data from each UK nation; comorbidities Jan 2018

Source

The Health Improvement Network (THIN) 2019





bhf.org.uk/statistics

Heart and Circulatory Disease Statistics 2020 - Chapter 3 - Treatment

This chapter reports on different methods of treatment for heart and circulatory diseases (CVD).

Includes tables and figures for trends and latest statistics on the number of prescriptions, operations and cardiac arrest survival in the UK.

PRESCRIPTIONS

T3.1	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), England - 1981 to 2018
T3.2	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Wales - 2005 to 2018
T3.3	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Scotland - 2001/02 to 2018/19
T3.4	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Northern Ireland - 2000 to 2018
T3.5	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), UK - latest year

OPERATIONS

T3.6	Number of CABGs and PCIs, UK - 1977 to 2018/19
T3.7	Number and rate of CABGs, Scotland - 2008/09 to 2018/19
T3.8	Number of valve replacements and repairs, UK - 2003 to 2015

TRANSPLANTS

T3.9	Cardiothoracic transplant list, UK - 2018/19
T3.10	Cardiothoracic transplants and rate per million population, by country, UK - 2010/11 to 2018/19

IMPLANTS

T3.11	New Pacemaker implants and rate per million population, by country, UK - 2010/11 to 2016/17
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OUT-OF-HOSPITAL CARDIAC ARRESTS

T3.12	Out-of-hospital cardiac arrest survival rates, by Ambulance Service, England - 2011/12 to 2018/19; 2011 to 2018
T3.13	Out-of-hospital cardiac arrest survival rates, Scotland - 2011/12 to 2018/19

Table 3.1 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), England 1981 to 2018

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Prescriptions	Thousands (000s)																	
	1981	1986	1991	1996	2001	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Digoxin and other positive inotropic drugs (2.1)	4,243	3,722	3,822	3,871	4,031	4,126	4,141	4,149	4,119	4,088	4,006	3,900	3,770	3,634	3,460	3,297	3,148	3,025
Diuretics (2.2)	20,678	21,996	22,195	23,106	30,203	37,582	37,355	37,536	37,511	37,687	37,563	37,258	36,650	36,208	35,327	34,509	33,354	32,353
Anti-arrhythmic drugs (2.3)	232	334	532	840	1,292	1,265	1,247	1,226	1,188	1,174	1,156	1,129	1,107	1,088	1,061	1,048	1,009	987
Beta-adrenoreceptor blocking drugs (2.4)	9,827	12,525	14,282	14,375	20,439	27,378	26,810	27,634	28,529	29,686	30,924	32,355	33,597	34,860	35,948	37,038	37,817	38,618
Antihypertensive and heart failure drugs (2.5)	4,912	4,424	6,431	12,125	25,047	47,742	53,634	57,823	60,838	63,571	65,449	67,184	68,652	70,072	70,774	71,453	71,531	72,128
Nitrates, calcium blockers & other antianginal drugs (2.6)	5,156	10,314	16,718	21,971	26,814	34,707	37,214	39,100	40,575	42,043	43,086	44,675	45,868	46,992	47,812	48,740	49,365	50,201
Anticoagulants and protamine (2.8)	629	900	1,356	2,609	4,609	6,790	7,309	7,991	8,546	9,157	9,773	10,723	11,906	13,173	14,647	15,938	17,000	17,992
Antiplatelet drugs (2.9)	281	1,058	3,619	9,002	18,891	32,779	35,382	38,124	39,107	38,182	38,351	38,603	38,661	38,444	37,312	36,297	35,082	34,140
Anti-fibrinolytic drugs and haemostatics (2.11)					282	327	352	358	363	373	392	396	393	408	416	409	402	414
Lipid-lowering drugs (2.12)	295	247	1,066	3,138	13,523	42,098	47,412	52,190	56,452	59,550	61,649	64,399	66,795	68,437	69,731	70,957	72,612	74,289
All prescriptions for disease of the circulatory system	46,252	55,520	70,022	91,037	145,131	234,793	250,855	266,130	277,244	285,530	292,370	300,647	307,424	313,342	316,520	319,734	321,385	324,236

Notes: The data up to 1990 are not consistent with data from 1991 onwards. Figures up to 1990 are based on fees and on a sample of 1 in 200 prescriptions dispensed by community pharmacists and appliance contractors only. Figures from 1991 are based on items and cover all prescriptions dispensed by community pharmacists, appliance contractors, dispensing doctors and prescriptions submitted by prescribing doctors for items personally administered. British National Formulary (BNF) codes in parentheses.

Source: NHS Digital (2019). Prescription cost analysis 2018.
<https://digital.nhs.uk/data-and-information/publications/statistical/prescription-cost-analysis/2018>

Table 3.2 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Wales 2005 to 2018

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Prescriptions	Thousands (000s)													
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Digoxin and other positive inotropic drugs (2.1)	362	357	337	319	307	296	284	273	260	249	235	224	215	203
Diuretics (2.2)	3,083	3,091	3,028	3,000	2,979	2,971	2,960	2,940	2,897	2,866	2,782	2,704	2,618	2,509
Anti-arrhythmic drugs (2.3)	99	94	87	81	75	68	64	62	61	61	60	59	58	56
Beta-adrenoreceptor blocking drugs (2.4)	2,093	2,110	2,071	2,116	2,165	2,237	2,322	2,424	2,505	2,584	2,643	2,691	2,736	2,775
Antihypertensive and heart failure drugs (2.5)	3,442	3,774	4,124	4,402	4,601	4,781	4,920	5,063	5,173	5,290	5,324	5,360	5,365	5,362
Nitrates, calcium blockers & other antianginal drugs (2.6)	2,731	2,892	3,032	3,135	3,205	3,263	3,314	3,390	3,438	3,489	3,506	3,538	3,544	3,560
Anticoagulants and protamine (2.8)	576	612	650	689	723	764	808	874	944	1,030	1,125	1,196	1,241	1,291
Antiplatelet drugs (2.9)	2,563	2,716	2,846	3,011	3,045	2,933	2,905	2,890	2,860	2,816	2,696	2,587	2,481	2,354
Anti-fibrinolytic drugs and haemostatics (2.11)	23	24	28	30	30	31	33	34	33	34	34	33	33	33
Lipid-lowering drugs (2.12)	3,103	3,626	3,985	4,297	4,562	4,693	4,788	4,956	5,076	5,150	5,129	5,112	5,140	5,159
All prescriptions for disease of the circulatory system	18,073	19,296	20,188	21,082	21,691	22,037	22,399	22,906	23,248	23,571	23,535	23,508	23,434	23,305

Notes: British National Formulary (BNF) codes in parentheses.

Source: Health Statistics and Analysis Unit (2019). Prescription cost analysis 2018. Welsh Government:Cardiff and previous editions.

<https://gov.wales/prescriptions-wales-april-2018-march-2019>

Table 3.3 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Scotland 2001/02 to 2018/19

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Prescriptions	Thousands (000s)														
	2001/02	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
Digoxin and other positive inotropic drugs (2.1)	358	323	315	305	296	291	283	276	269	260	252	246	241	236	228
Diuretics (2.2)	3,469	3,914	3,810	3,680	3,597	3,544	3,457	3,382	3,269	3,154	3,057	2,942	2,848	2,740	2,643
Anti-arrhythmic drugs (2.3)	102	90	85	81	77	73	70	71	69	68	67	66	66	65	65
Beta-adrenoreceptor blocking drugs (2.4)	2,508	3,027	2,940	2,853	2,850	2,883	2,909	2,957	2,998	3,048	3,102	3,150	3,197	3,235	3,277
Antihypertensive and heart failure drugs (2.5)	2,298	3,777	4,127	4,462	4,693	4,875	4,965	5,045	5,095	5,160	5,220	5,223	5,218	5,187	5,185
Nitrates, calcium blockers & other antianginal drugs (2.6)	3,278	3,542	3,625	3,666	3,683	3,714	3,697	3,699	3,716	3,735	3,738	3,750	3,740	3,722	3,718
Anticoagulants and protamine (2.8)	489	612	646	676	707	743	773	819	884	958	1,035	1,108	1,159	1,197	1,231
Antiplatelet drugs (2.9)	2,461	3,448	3,545	3,652	3,743	3,724	3,577	3,506	3,404	3,295	3,218	3,108	3,030	2,926	2,845
Anti-fibrinolytic drugs and haemostatics (2.11)	35	36	38	39	41	42	43	44	47	47	47	48	47	47	49
Lipid-lowering drugs (2.12)	1,667	3,649	4,081	4,376	4,624	4,826	4,875	4,861	4,907	4,977	5,024	5,002	4,989	5,003	5,009
All prescriptions for disease of the circulatory system	16,667	22,418	23,212	23,791	24,312	24,716	24,649	24,660	24,657	24,703	24,764	24,644	24,538	24,361	24,252

Notes: British National Formulary (BNF) codes in parentheses.

Source: ISD Scotland (2019). Prescription Cost Analysis 2018/19. NHS National Services: Edinburgh. and previous editions.

www.isdscotland.org/Health-Topics/Prescribing-and-medicines/Community-Dispensing/Prescription-Cost-Analysis/

Table 3.4 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Northern Ireland 2000 to 2018

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Prescriptions	Thousands (000s)														
	2000	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Digoxin and other positive inotropic drugs (2.1)	132	107	104	101	99	96	95	93	92	90	88	82	80	75	72
Diuretics (2.2)	819	1,015	1,009	992	983	983	992	1,002	996	978	961	940	926	908	896
Anti-arrhythmic drugs (2.3)	41	38	36	35	34	32	31	32	31	30	29	28	28	27	26
Beta-adrenoreceptor blocking drugs (2.4)	641	908	918	915	937	967	1,020	1,059	1,108	1,150	1,190	1,230	1,277	1,312	1,351
Antihypertensive and heart failure drugs (2.5)	602	1,145	1,247	1,364	1,445	1,517	1,595	1,640	1,689	1,728	1,770	1,799	1,834	1,854	1,898
Nitrates, calcium blockers & other antianginal drugs (2.6)	928	1,001	1,039	1,080	1,089	1,097	1,124	1,154	1,188	1,218	1,234	1,255	1,286	1,304	1,340
Anticoagulants and protamine (2.8)	138	183	194	207	220	233	249	274	300	334	366	394	427	454	477
Antiplatelet drugs (2.9)	539	957	1,026	1,095	1,151	1,177	1,192	1,223	1,239	1,239	1,229	1,202	1,179	1,153	1,137
Anti-fibrinolytic drugs and haemostatics (2.11)	0	12	12	13	13	14	14	16	17	16	16	16	16	16	17
Lipid-lowering drugs (2.12)	376	1,047	1,227	1,393	1,534	1,652	1,761	1,838	1,901	1,954	1,988	2,035	2,083	2,130	2,180
All prescriptions for disease of the circulatory system	4,226	6,413	6,812	7,195	7,505	7,769	8,073	8,331	8,560	8,736	8,869	8,984	9,136	9,235	9,396

Notes: British National Formulary (BNF) codes in parentheses.

Source: HSC (2019). Prescription Cost Analysis 2018. Business Services Organisation: Belfast.

www.hscbusiness.hscni.net/services/1806.htm

Table 3.5 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), United Kingdom, latest year

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Prescriptions	England 2018	Wales 2018	Scotland 2018/19	Northern Ireland 2018	UK latest
Digoxin and other positive inotropic drugs (2.1)	3,025	203	228	72	3,528
Diuretics (2.2)	32,353	2,509	2,643	896	38,400
Anti-arrhythmic drugs (2.3)	987	56	65	26	1,135
Beta-adrenoreceptor blocking drugs (2.4)	38,618	2,775	3,277	1,351	46,021
Antihypertensive and heart failure drugs (2.5)	72,128	5,362	5,185	1,898	84,573
Nitrates, calcium blockers & other antianginal drugs (2.6)	50,201	3,560	3,718	1,340	58,820
Anticoagulants and protamine (2.8)	17,992	1,291	1,231	477	20,990
Antiplatelet drugs (2.9)	34,140	2,354	2,845	1,137	40,476
Antifibrinolytic drugs & haemostatics (2.11)	414	33	49	17	513
Lipid-lowering drugs (2.12)	74,289	5,159	5,009	2,180	86,637
All prescriptions for disease of the cardiovascular system	324,236	23,305	24,252	9,396	381,190

Notes: Figures are based on items and cover all prescriptions dispensed by community pharmacists, appliance contractors, dispensing doctors and prescriptions submitted by prescribing doctors for items personally administered. British National Formulary (BNF) codes in parentheses.

Source: NHS Digital (2019). Prescription cost analysis 2018.
Health Statistics and Analysis Unit (2019). Prescription cost analysis 2018. Welsh Government:Cardiff and previous editions.
ISD Scotland (2019). Prescription Cost Analysis 2018/19. NHS National Services: Edinburgh. and previous editions.
HSC (2019). Prescription Cost Analysis 2018. Business Services Organisation: Belfast.

Table 3.6 Number of CABGs and PCIs, United Kingdom 1977 to 2018-19[Back to Table of Contents](#)

	Coronary artery bypass surgery (CABG)	Percutaneous coronary interventions (PCI)
1977	2,297	
1978	2,653	
1979	2,918	
1980	4,057	
1981	5,130	
1982	6,008	
1983	8,332	
1984	9,433	
1985	10,667	
1986	10,767	
1987	11,521	
1988*	11,113	
1989	12,648	
1990	14,431	
1991	15,659	9,933
1992	19,241	11,575
1993	21,031	12,937
1994	22,056	14,624
1995	22,475	17,344
1996	22,160	20,511
1997	25,639	22,902
1998	25,083	24,899
1999	24,733	28,133
2000	25,127	33,256
2001	24,663	38,992
2002	25,277	44,913
2003	25,461	53,261
2004	25,160	62,780
2005	23,412	70,142
2006	20,941	73,692
2007	22,385	77,373
2008	21,123	80,331
2009	19,245	83,130
2010	18,013	87,676
2011	17,778	88,692
2012	17,142	92,445
2013	17,630	92,589
2014	16,958	96,143
2015	16,166	97,376
2016	15,022	100,483
2017-18	14,731	102,258
2018-19	14,187	100,294

Notes: Operations performed in NHS hospitals and selected private hospitals are included.

All years given represent a financial year e.g. 2011 represents 1st April 2011 – 31st March 2012.

Source: Data for 2016, 2017-18 and 2018-19 taken from British Cardiovascular Intervention Society (2020). BCIS Audit report 2016-17. <https://www.bcis.org.uk/resources/audit-results/>

Data up to 2015 taken from The Society for Cardiothoracic Surgery in Great Britain & Ireland (2017). Accessed 14/01/2020.

Table 3.7 Number and rate of CABGs, Scotland 2008/09 to 2018/19

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Gender	Coronary Artery Bypass Graft (CABG)	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19(p)
Males	Discharges	1,581	1,494	1,382	1,291	1,187	1,207	1,300	1,009	1,095	1,136	1,152
	Crude rate per 100,000 population	62.9	59.0	54.2	50.2	46.1	46.7	50.1	38.7	41.7	43.0	43.5
	Age standardised discharge rate per 100,000 population	72.2	67.8	62.1	56.5	50.8	51.1	53.8	41.6	44.2	45.1	45.1
Females	Discharges	450	426	365	351	296	331	324	245	275	266	317
	Crude rate per 100,000 population	16.7	15.8	13.4	12.9	10.8	12.1	11.8	8.9	9.9	9.6	11.4
	Age standardised discharge rate per 100,000 population	17.8	16.6	14.1	13.5	11.2	12.3	11.9	8.9	9.8	9.4	11.0
Both Sexes	Discharges	2,031	1,920	1,747	1,642	1,483	1,538	1,624	1,254	1,370	1,402	1,469
	Crude rate per 100,000 population	39.0	36.7	33.2	31.0	27.9	28.9	30.4	23.3	25.3	25.8	27.0
	Age standardised discharge rate per 100,000 population	45.0	42.2	38.1	35.0	31.0	31.7	32.8	25.3	27.0	27.3	28.0

Notes: The European Standard Population (ESP), which was first used in 1976, was revised in 2013. Figures using ESP1976 and ESP2013 are not comparable.
European Age-Sex Standardised Rate (EASR), calculated using ESP2013 and using 5 year age groups 0-4, 5-9 up to an upper age group of 90+.
(p) provisional data

Source: SMR1/01 records, all inpatient and daycase discharges.

All records were extracted from the SMR01 linked database as at October 2019.

Data for year ending 31st March 2019 are provisional and subject to change in future analyses.

<https://beta.isdscotland.org/find-publications-and-data/conditions-and-diseases/heart-disease-and-blood-vessels/heart-disease-statistics/>

Table 3.8 Number of valve replacements and repairs, United Kingdom 2003 to 2015[Back to Table of Contents](#)

Operation	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Isolated aortic valve replacement	3,361	3,494	3,545	3,626	4,040	4,432	4,402	4,288	4,787	4,769	4,893	5,687	5,796
Aortic valve replacement and coronary artery bypass graft (CABG)	2,445	2,519	2,796	2,913	3,122	3,433	3,222	3,144	3,205	3,398	3,240	3,414	3,258
Isolated mitral repair	771	911	1,017	1,118	1,190	1,332	1,316	1,359	1,380	1,491	1,558	1,713	1,850
Mitral repair and coronary artery bypass graft (CABG)□	450	552	580	652	591	665	624	581	575	606	573	553	559
Isolated mitral replacement	797	804	740	733	845	876	746	669	687	658	789	1,008	1,048
Mitral replacement and coronary artery bypass graft (CABG)	347	341	308	349	327	315	307	245	250	241	253	277	286

Notes: First time operations only
Operations performed in NHS hospitals and selected private hospitals are included.
All years given represent a financial year e.g. 2011 represents 1 April 2011 - 31 March 2012.

Source: The Society for Cardiothoracic Surgery in Great Britain & Ireland (2015).
<https://scts.org/outcomes/cardiac/>

Table 3.9 Cardiothoracic transplant list, United Kingdom 2018/19[Back to Table of Contents](#)

Heart transplant list	New registrations in 2018/19 ¹		Total registrations	
	Number	%	Number	%
Remained active / suspended	149	48	334	55
Transplanted	109	35	177	29
Removed	46	15	79	13
Died	6	2	18	3
TOTAL	310		605	

Heart/lung transplant list	Number	%	Number	%
Remained active / suspended	5	42	15	58
Transplanted ²	0	0	5	19
Removed	2	17	5	19
Died	0	0	1	4
TOTAL	7		26	

Notes:¹ Includes re-registrations for second or subsequent transplants² Patients may have received heart, lung, or heart-lung

Activities for the year ending 31 March 2019

Source:

NHS Blood and Transplant (2019). Organ donation and transplantation. NHS

<https://www.organdonation.nhs.uk/supporting-my-decision/statistics-about-organ-donation/transplant-activity-report/>

Table 3.10 Cardiothoracic transplants and rate per million population, by resident nation, United Kingdom 2010/11 to 2018/19

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Heart	2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19	
Country	n	rate	n	rate	n	rate	n	rate	n	rate	n	rate	n	rate	n	rate	n	rate
England	94	1.8	113	2.2	119	2.2	163	3.0	157	2.9	167	3.1	163	3.0	170	3.1	158	2.8
Wales	6	2.0	8	2.7	5	1.6	4	1.3	7	2.3	11	3.6	12	3.9	3	1.0	7	2.2
Scotland	12	2.3	13	2.5	13	2.5	21	4.0	16	3.0	9	1.7	16	3.0	16	3.0	11	2.0
Northern Ireland	14	7.8	4	2.2	5	2.8	5	2.7	0	0.0	7	3.8	6	3.2	8	4.3	7	3.7
Postcode unknown									1				2		1			
UK	126	2.0	138	2.2	142	2.2	193	3.0	181	2.8	194	3.0	199	3.0	198	3.0	183	2.8

Heart and lung	2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19	
Country	n	rate	n	rate	n	rate	n	rate	n	rate	n	rate	n	rate	n	rate	n	rate
England									1	0.0	6	0.1	2	0.0	9	0.2	2	0.0
Wales									0	0.0	0	0.0	0	0.0	1	0.3	2	0.6
Scotland									0	0.0	0	0.0	0	0.0	1	0.2	0	0.0
Northern Ireland									0	0.0	0	0.0	0	0.0	1	0.5	0	0.0
Postcode unknown																		
UK									1	0.0	6	0.1	2	0.0	12	0.2	4	0.1

ALL HEART/HEART & LUNG TRANSPLANTS

UK									182	2.8	200	3.1	201	3.1	210	3.2	187	2.8
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Notes: Includes patients whose postcodes were unknown. Excludes lung transplant.

Source: Organ Donation and Transplantation. Quarterly statistics (2019) previous Annual Activity reports. Organ donation and transplantation. NHS Blood and Transplant, NHS.

<https://www.organdonation.nhs.uk/supporting-my-decision/statistics-about-organ-donation/>

Table 3.11 Pacemaker new implants and rate per million population, by country, United Kingdom 2010/11 to 2016/17

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Country	2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17	
	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>
England	-	528	-	524	-	559	-	594	-	592	-	555	-	555
Wales	-	-	-	-	-	565	-	560	-	596	-	523	-	456
Scotland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northern Ireland	-	-	-	-	-	402	-	413	-	438	-	430	-	372

		2010		2011		2012		2013		2014		2015		2016	
		<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>
UK	Total implants	37,200	597	38,239	610	38,770	615	44,503	702	45,131	708	46,110	719	46,227	717
	New Implants	28,091	451	29,482	470	32,120	499	32,567	514	33,893	532	36,454	568	36,446	566

Notes: Pacemaker implant data for England, Wales and Northern Ireland is shown using old method (all procedures except battery changes) for years 2010/11 to 2014/15, and using new method (only first implants, hence somewhat Pacemaker data for Scotland are known to be incomplete and are therefore not shown.

Source: Figures for England, Wales and Northern Ireland taken from public reports for the National Audit of Cardiac Rhythm Management.

<https://www.nicor.org.uk/national-cardiac-audit-programme/cardiac-rhythm-management-arrhythmia-audit/>

Figures for the UK taken from European Heart Rhythm Association White Book, include both new implants and replacements, and are for the calendar year.

[https://www.escardio.org/Sub-specialty-communities/European-Heart-Rhythm-Association-\(EHRA\)/Research-and-Publications/The-EHRA-White-Books](https://www.escardio.org/Sub-specialty-communities/European-Heart-Rhythm-Association-(EHRA)/Research-and-Publications/The-EHRA-White-Books)

Table 3.12 Out-of-hospital cardiac arrest survival rates, by Ambulance Service, England 2011-12 to 2018-19; April 2011 to December 2018

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Number of resuscitation attempts by Financial Year									Number of resuscitation attempts by Calendar Year								
Ambulance Service	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2011 (Apr to Dec)	2012	2013	2014	2015	2016	2017	2018	
East Midlands Ambulance Service NHS Trust	1,487	2,935	2,595	2,608	2,338	2,459	2,227	2,484	689	2,989	2,674	2,515	2,397	2,466	2,307	2,324	
East of England Ambulance Service NHS Trust	3,161	3,059	3,073	3,346	3,127	3,468	3,587	3,389	2,324	3,132	2,970	3,234	3,274	3,280	3,579	3,487	
Isle of Wight NHS Trust	115	100	132	127	139	111	127	124	77	110	121	126	142	110	133	126	
London Ambulance Service NHS Trust	4,119	4,408	4,239	4,597	4,317	4,357	4,294	3,806	3,053	4,268	4,341	4,429	4,373	4,348	4,312	3,992	
North East Ambulance Service NHS Foundation Trust	1,340	1,645	1,611	1,550	1,720	1,882	2,071	1,833	974	1,603	1,625	1,488	1,717	1,794	2,007	1,904	
North West Ambulance Service NHS Trust	2,137	3,414	3,502	3,453	3,371	3,734	3,924	3,481	1,556	3,024	3,660	3,523	3,151	3,612	3,921	3,652	
South Central Ambulance Service NHS Foundation Trust	1,353	1,031	1,236	1,433	1,392	1,244	1,436	1,962	1,044	1,103	1,065	1,471	1,450	1,224	1,354	1,816	
South East Coast Ambulance Service NHS Foundation Trust	2,270	2,551	2,691	2,728	2,802	3,021	3,023	2,663	1,513	2,566	2,721	2,690	2,752	2,995	2,980	2,870	
South Western Ambulance Service NHS Foundation Trust	3,142	3,715	3,750	3,722	3,444	3,680	3,910	3,633	2,242	3,572	3,821	3,660	3,474	3,757	3,750	3,717	
West Midlands Ambulance Service NHS Foundation Trust	2,282	2,909	3,861	4,100	4,046	3,794	3,777	3,401	1,680	2,862	3,470	4,064	4,047	3,850	3,663	3,661	
Yorkshire Ambulance Service NHS Trust	2,730	3,017	2,838	2,742	2,676	3,079	2,940	3,210	1,970	2,973	2,908	2,719	2,685	2,965	2,968	3,201	
England	24,136	28,784	29,528	30,406	29,372	30,829	31,316	29,986	17,122	28,202	29,376	29,919	29,462	30,401	30,974	30,750	

Number discharged from hospital alive by Financial Year									Number discharged from hospital alive by Calendar Year								
Ambulance Service	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2011 (Apr to Dec)	2012	2013	2014	2015	2016	2017	2018	
East Midlands Ambulance Service NHS Trust	95	203	128	129	130	149	156	196	35	212	148	128	138	127	170	181	
East of England Ambulance Service NHS Trust	155	192	200	218	196	293	311	370	116	176	196	226	203	248	316	356	
Isle of Wight NHS Trust	5	8	9	7	15	12	14	13	4	4	12	9	10	13	13	14	
London Ambulance Service NHS Trust	381	390	436	416	388	415	402	358	294	369	420	426	413	400	401	377	
North East Ambulance Service NHS Foundation Trust	108	101	110	74	102	134	182	189	80	113	106	64	112	119	166	194	
North West Ambulance Service NHS Trust	174	256	309	321	311	349	382	296	138	220	310	324	302	337	388	320	
South Central Ambulance Service NHS Foundation Trust	76	162	240	240	189	148	212	262	41	154	220	242	211	152	191	263	
South East Coast Ambulance Service NHS Foundation Trust	129	153	198	233	213	248	209	223	86	153	198	220	230	237	210	214	
South Western Ambulance Service NHS Foundation Trust	216	334	386	360	307	305	340	370	150	321	354	384	310	317	332	357	
West Midlands Ambulance Service NHS Foundation Trust	195	217	253	340	348	339	343	406	152	209	243	316	370	316	343	397	
Yorkshire Ambulance Service NHS Trust	167	238	291	292	248	310	301	328	134	221	270	286	259	290	313	327	
England	1,701	2,254	2,560	2,630	2,447	2,702	2,852	3,011	1,230	2,152	2,477	2,625	2,558	2,556	2,843	3,000	

Proportion discharged from hospital alive % by Financial Year									Proportion discharged from hospital alive % by Calendar Year								
Ambulance Service	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2011 (Apr to Dec)	2012	2013	2014	2015	2016	2017	2018	
East Midlands Ambulance Service NHS Trust	6.4	6.9	4.9	4.9	5.6	6.1	7.0	7.9	5.1	7.1	5.5	5.1	5.8	5.2	7.4	7.8	
East of England Ambulance Service NHS Trust	4.9	6.3	6.5	6.5	6.3	8.4	8.7	10.9	5.0	5.6	6.6	7.0	6.2	7.6	8.8	10.2	
Isle of Wight NHS Trust	4.3	8.0	6.8	5.5	10.8	10.8	11.0	10.5	5.2	3.6	9.9	7.1	7.0	11.8	9.8	11.1	
London Ambulance Service NHS Trust	9.2	8.8	10.3	9.0	9.0	9.5	9.4	9.4	9.6	8.6	9.7	9.6	9.4	9.2	9.3	9.4	
North East Ambulance Service NHS Foundation Trust	8.1	6.1	6.8	4.8	5.9	7.1	8.8	10.3	8.2	7.0	6.5	4.3	6.5	6.6	8.3	10.2	
North West Ambulance Service NHS Trust	8.1	7.5	8.8	9.3	9.2	9.3	9.7	8.5	8.9	7.3	8.5	9.2	9.6	9.3	9.9	8.8	
South Central Ambulance Service NHS Foundation Trust	5.6	15.7	19.4	16.7	13.6	11.9	14.8	13.4	3.9	14.0	20.7	16.5	14.6	12.4	14.1	14.5	
South East Coast Ambulance Service NHS Foundation Trust	5.7	6.0	7.4	8.5	7.6	8.2	6.9	8.4	5.7	6.0	7.3	8.2	8.4	7.9	7.0	7.5	
South Western Ambulance Service NHS Foundation Trust	6.9	9.0	10.3	9.7	8.9	8.3	8.7	10.2	6.7	9.0	9.3	10.5	8.9	8.4	8.9	9.6	
West Midlands Ambulance Service NHS Foundation Trust	8.5	7.5	6.6	8.3	8.6	8.9	9.1	11.9	9.0	7.3	7.0	7.8	9.1	8.2	9.4	10.8	
Yorkshire Ambulance Service NHS Trust	6.1	7.9	10.3	10.6	9.3	10.1	10.2	10.2	6.8	7.4	9.3	10.5	9.6	9.8	10.5	10.2	
England	7.7	7.8	8.7	8.6	8.3	8.8	9.1	10.0	7.2	7.6	8.4	8.8	8.7	8.4	9.2	9.8	

Notes: Data for South Western Ambulance Service includes that for the Great Western Ambulance Service up to January 2013. From February 2013 the Great Western Ambulance Service became part of the South Western Ambulance Service.

Data not directly comparable with Scotland

Geographic details for the above ambulance services

<https://aace.org.uk/uk-ambulance-service/map-of-nhs-ambulance-services/>

Source: NHS England, Ambulance Quality Indicators

<https://www.england.nhs.uk/statistics/statistical-work-areas/ambulance-quality-indicators/>

Table 3.13 Out-of-hospital cardiac arrest survival rates, Scotland 2011-12 to 2018-19

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Ambulance Service	Number of resuscitation attempts by Financial Year							
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Scottish Ambulance Service	2,692	3,047	*	3,277	3,142	3,455	3,484	3,115

Ambulance Service	Number 30-day survivors per million of the population by Financial Year							
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Scottish Ambulance Service	30.2	37.3	*	44.5	41.7	52.9	53.3	58.5

Ambulance Service	Proportion alive at 30 days % by Financial Year							
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Scottish Ambulance Service	5.9	6.5	*	7.3	7.1	8.3	8.3	10.2

Notes: * Data for 2013/14 incomplete and therefore omitted.

Data not directly comparable with England

Source: Out-of-Hospital Cardiac Arrest data linkage project: 2018-2019 results.

<https://www.gov.scot/publications/scottish-out-hospital-cardiac-arrest-data-linkage-project-2018-19-results/>



bhf.org.uk/statistics

Heart and Circulatory Disease Statistics 2020 - Chapter 4 - Costs

In this chapter we present the cost to the NHS and the wider economy of treating heart and circulatory diseases (CVD) in the UK.

ECONOMIC & HEALTHCARE COSTS, UK

[Section 4.1](#) Economic and healthcare costs of heart and circulatory disease (CVD), coronary heart disease (CHD) and stroke, UK - 2015

ENGLAND

[Table 4.2](#) NHS expenditure in £ millions on cardiovascular disease by care setting and condition, England - 2013/14

WALES

[Table 4.3](#) NHS expenditure on CVD by Health Board, Wales - 2017/18

[Table 4.4](#) Financial Impact of Stroke Admissions by Health Board, Wales - 2016/17

[Table 4.5](#) Financial Impact of Heart Failure Admissions for patients with an Emergency Readmission within 30 days by Health Board, Wales - 2016/17

[Table 4.6](#) Financial Impact of non-ST elevation acute coronary syndrome (NSTEMI) Admissions by Health Board, Wales - 2016/17

NORTHERN IRELAND

[Table 4.7](#) NHS expenditure on CVD by Health and Social Care Trust, Northern Ireland - 2014/15

SCOTLAND

[Table 4.8](#) NHS expenditure on CVD by care setting and condition, Scotland - 2011/12

4.1 Economic and healthcare costs of heart and circulatory disease (CVD), coronary heart disease (CHD) and stroke, UK 2015

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As well as human costs, cardiovascular disease (CVD), coronary heart disease (CHD) from non-health care related costs, such as productivity losses from death and illness in those of working age and from the informal care of people with the disease and stroke have major economic consequences for the United Kingdom. These economic consequences come not just through the costs to treating those suffering from CVD, but also from non-health care related costs, such as productivity losses from death and illness in those of working age and from the informal care of people with the disease.

According to cost estimates by members of the Health Economics Research Centre from the Nuffield Department of Population Health, University of Oxford and included in the European Cardiovascular Disease Statistics 2017 report published by the European Heart Network, Brussels, overall CVD was estimated to cost the UK economy €26 billion in 2015. Of the total cost of CVD in the UK, €12 billion (46%) came from direct health care costs.

Productivity losses due to mortality accounted for 23% of the total cost of CVD with productivity loss due to morbidity making up 10%. The informal care costs contributed around €5.5 billion, slightly less than mortality costs. Of these €26 billion of CVD costs, €9 billion were due to CHD and €5.9 to stroke. Despite these higher total costs from CHD, health care costs were greater for stroke (€2.65 billion) than for CHD (€2.17 billion) whilst productivity losses due to mortality and morbidity were much higher for CHD.

Costs of cardiovascular disease, coronary heart disease and stroke, UK, 2015 (€ thousands)

	Primary care	Outpatient care	A&E	Inpatient care	Medications	Total health care	per capita
CVD	1,638,492	1,073,695	398,661	6,505,414	2,732,144	12,348,406	190
CHD	149,694	299,002	102,413	1,236,089	379,036	2,166,234	33
Stroke	51,448	299,002	68,554	2,091,942	141,429	2,652,375	41

Non-health care costs - CVD, CHD and Stroke, UK, 2015 (€ thousands)

	Production losses due to mortality €	Production losses due to morbidity €	Informal care €
CVD	6,203,014	2,548,365	5,566,934
CHD	3,364,345	958,817	2,566,012
Stroke	1,040,896	331,719	1,945,108

Source:

European Cardiovascular Disease Statistics 2017; European Heart Network (EHN)

www.ehnheart.org/cvd-statistics/cvd-statistics-2017.html

Table 4.2 NHS expenditure on cardiovascular disease by care setting and condition, England 2013/14

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	Expenditure (£ million)							
	Primary Prescribing	Unscheduled care	Scheduled care	Unbundled care	<i>Total secondary care</i>	Community & end of life care	Running costs	Total costs
Coronary heart disease	346.1	314.9	186.5	32.4	218.8	51.8	22.2	953.7
Stroke	21.0	399.5	47.8	40.6	88.4	165.8	15.1	689.9
Rhythm	11.3	176.1	118.8	12.0	130.8	14.2	7.8	340.2
Other CVD	588.6	841.5	583.7	110.8	694.5	132.0	51.1	2,307.7
Total CVD	967.0	1,732.0	936.8	195.7	1,132.5	363.8	96.3	4,291.5

Notes:

Expenditure data included within this workbook are taken from the 2013-14 CCG programme budgeting returns. Programme budgeting returns represent a subset of overall NHS expenditure data.

Calculating programme budgeting data is complex and not all healthcare activity or services can be classified directly to a programme budgeting category or care setting.

When it is not possible to reasonably estimate a programme budgeting category, expenditure is classified as 'Other'.

The allocation of expenditure to programme budgeting subcategories is not always straightforward, and subcategory level data should therefore be used with caution.

Estimates of expenditure are calculated using price paid for specific activities and services purchased from healthcare providers.

CCGs follow standard guidance, procedures and mappings when calculating programme budgeting data.

Unscheduled Care: Non-elective admissions (PBR), Unscheduled Care: A&E, Unscheduled Care: Emergency Transport and Unscheduled Care: Other Urgent Care

Scheduled Care: Daycase and elective (PBR) and Scheduled Care Outpatient - (PBR & Non-PBR)

Unbundled care includes, Unbundled Diagnostic Imaging, Unbundled/high cost: Critical Care, Unbundled/high cost: Drugs & devices, Unbundled/high cost: Other and Direct Access Diagnostic Imaging

Total secondary care includes, all Scheduled and Unbundled care.

Community and end of life care includes, Community and integrated care and End of Life Care

Source:

NHS England - Analytical services - Programme Budgeting Team (2015) 2013/14 Programme Budgeting Benchmarking Tool. <https://www.england.nhs.uk/resources/resources-for-ccgs/prog-budgeting/> (accessed May 2015).

Table 4.3 NHS expenditure on CVD by Health Board, Wales 2017/18[Back to Table of Contents](#)

HSC Trust Name	Expenditure per head / £				Expenditure (£ millions)				Percentage of Total expenditure (%)			
	CHD	Stroke	Other CVD	Total CVD	CHD	Stroke	Other CVD	Total CVD	CHD	Stroke	Other CVD	Total CVD
Abertawe Bro Morgannwg UHB	46.5	40.6	124.6	211.8	18.0	15.7	48.3	82.1	1.6	1.4	4.3	7.3
Aneurin Bevan LHB	31.8	21.0	92.5	145.3	18.7	12.4	54.4	85.4	1.6	1.0	4.5	7.1
Betsi Cadwaladr UHB	30.7	31.9	97.0	159.5	21.4	22.2	67.5	111.1	1.5	1.5	4.6	7.5
Cardiff & Vale UHB	30.6	22.1	67.3	120.0	15.1	10.9	33.2	59.2	1.6	1.2	3.5	6.3
Cwm Taf LHB	26.9	18.4	65.8	111.1	11.9	8.2	29.2	49.3	1.8	1.2	4.4	7.4
Hywel Dda LHB	36.9	27.8	110.0	174.8	14.2	10.7	42.3	67.2	1.7	1.3	5.0	7.9
Powys Teaching LHB	39.8	57.7	114.6	212.2	5.3	7.7	15.2	28.1	1.8	2.6	5.2	9.6
Wales	33.5	28.1	92.8	154.3	104.6	87.7	290.1	482.3	1.6	1.3	4.4	7.4

Notes:

Approx. 14% of LHB costs in Wales (including the GMS contract in full) are NOT allocated to programme due to a lack of relevant activity information. Thus, figures shown could be significantly below the full LHB spend on CVD.

The 'Other CVD' programme may include costs which actually relate to CHD, Stroke, and Rhythm where information available identifies spend as related to CVD generally but is not sufficiently detailed to allocate to sub-programme.

Programme costs may include an element of cost apportioned to CVD, rather than allocated by detailed activity information.

Some services are commissioned on a 'host' authority basis and have not been recharged to HB area.

Programme budget categories are defined by reference to ICD 10 codes.

Source:

Financial Information Strategy Programme, Public Health Wales NHS Trust (accessed 2020)

<https://statswales.gov.wales/Catalogue/Health-and-Social-Care/Health-Finance/NHS-Programme-Budget>

Table 4.4 Financial Impact of Stroke Admissions by Health Board, Wales 2016/17[Back to Table of Contents](#)

Resident Local Health Board	Hospital [□] Spells	Provider Spells	Total Bed days	Total Costs (£000)	Hosp. [□] LoS	Prov. [□] LoS	Hosp. Cost (£)	Prov. Cost (£)
Abertawe Bro Morgannwg UHB	1,013	1,010	11,894	£5,470	11.7	11.8	£5,400	£5,416
Aneurin Bevan LHB	950	623	8,069	£3,844	8.5	13.0	£4,046	£6,170
Betsi Cadwaladr UHB	1,395	1,245	22,632	£9,046	16.2	18.2	£6,484	£7,266
Cardiff & Vale UHB	855	665	18,542	£6,452	21.7	27.9	£7,546	£9,702
Cwm Taf LHB	573	563	5,686	£2,945	9.9	10.1	£5,140	£5,231
Hywel Dda LHB	786	742	15,650	£7,229	19.9	21.1	£9,198	£9,743
Powys Teaching LHB	295	292	3,222	£1,704	10.9	11.0	£5,777	£5,836
Wales Total	5,867	5,140	85,695	£36,690	-	-	£43,591	£49,364
Total Average	838	734	12,242	£5,241	14.1	16.2	£6,227	£7,052

Notes:

The above table shows the number of 'Hospital Spells' (Hosp) and 'Provider Spells' (Prov) and a comparison between average length of stay (LoS) and cost per spell.

The difference between the two calculations will have a greater impact for LHBs that transfer patients more between sites (perhaps where acute and rehab services aren't co-located).

The data includes spells for Welsh residents treated in England according to the information that has been received from NHS digital. English residents treated in Wales are not included here.

Source:

Cardiovascular Atlas of Variation, Public Health Wales NHS, 2019

<http://www.wcn.wales.nhs.uk/caov>

Table 4.5 Financial Impact of Heart Failure Admissions for patients with an Emergency Readmission within 30 days by Health Board, Wales 2016/17

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Heart Failure Spells within 16/17				Hospital Spells with Readmission	Hospital Spells without Readmission	Hospital Spells with Readmission	Hospital Spells without Readmission	Hospital Spells with Readmission	Hospital Spells without Readmission
Resident LHB	Hospital Spells with Readmission	Hospital Spells	Readmission Rate	Average LoS		Average Spell Cost (£)		Total Cost per LHB (£000)	
Aneurin Bevan	105	948	11.1	6.4	10.3	£2,453	£4,061	£258	£3,850
Abertawe Bro Morgannwg	73	733	10.0	13.6	14.5	£4,989	£5,754	£364	£4,218
Betsi Cadwaladr	96	956	10.0	10.6	11.7	£4,539	£4,951	£436	£4,733
Cwm Taf	67	453	14.8	8.8	10.8	£3,980	£4,680	£267	£2,120
Cardiff and Vale	74	556	13.3	8.3	13.6	£2,927	£4,567	£217	£2,539
Hywel Dda	59	634	9.3	10.1	12.3	£4,323	£5,882	£255	£3,729
Powys	16	208	7.7	7.8	12.0	£3,812	£5,905	£61	£1,228
Grand Total	490	4,488	-	-	-	£27,023	£35,800	£1,857	£22,417
Total Average	70	641	10.9	9.4	12.1	£3,860	£5,114	£265	£3,202

Notes:

The above table compares the number of 'Hospital Spells' where patients were admitted for heart failure and had an emergency readmission for any heart condition within 30 days of the discharge date.

This was against those that were admitted for heart failure and did not require a readmission. It also shows the total number of spells and the calculated readmission rate per resident cohort.

"Costs per spell" are "fully absorbed" and as they include an element of fixed costs (e.g. estates, rates), semi fixed costs (most staff costs), and variable costs (e.g. drugs, prosthetics).

The data includes spells for Welsh residents treated in England according to the information that has been received from NHS digital. English residents treated in Wales are not included here.

Source:

Cardiovascular Atlas of Variation, Public Health Wales NHS, 2019

<http://www.wcn.wales.nhs.uk/caov>

Table 4.6 Financial Impact of non-ST elevation acute coronary syndrome (NSTEMI) Admissions by Health Board, Wales 2016/17

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Resident Local Health Board	Number of 'Person' Spells [□] (Inc. Cross-Provider)	Average Length of Stay	Average Cost per [□] Patient Spell (£)	Total Cost per LHB (£000)
Abertawe Bro Morgannwg UHB	995	6.6	£3,576	£3,558
Aneurin Bevan LHB	781	7.7	£4,523	£3,532
Betsi Cadwaladr UHB	1,349	4.3	£2,800	£3,777
Cardiff & Vale UHB	542	7.2	£3,716	£2,014
Cwm Taf LHB	514	7.4	£4,381	£2,252
Hywel Dda LHB	843	7.7	£4,507	£3,799
Powys Teaching LHB	326	6.5	£4,306	£1,404
Wales Total	5,350	-	£27,809	£20,337
Total Average	764	6.8	£3,973	£2,905

Notes:

The above table shows the number of non-ST elevation acute coronary syndrome (NSTEMI) 'Person Spells' for Welsh Resident Patients.

Spells in this table relate to 'Person Spells' which are continuous periods of inpatient care for a single patient which could take place under any number of different providers.

The average costs and length of stay therefore reflect the totals across all providers for the 'Person Spell'.

The data includes spells for Welsh residents treated in England according to the information that has been received from NHS digital. English residents treated in Wales are not included here.

Source:

Cardiovascular Atlas of Variation, Public Health Wales NHS, 2019

<http://www.wcn.wales.nhs.uk/caov>

Table 4.7 NHS expenditure on CVD by Health and Social Care Trust, Northern Ireland 2014/15[Back to Table of Contents](#)

HSCT Name	Expenditure per head of population /£				CVD expenditure (£ million)			
	CHD	Stroke	Other CVD	Total CVD	CHD	Stroke	Other CVD	Total CVD
Belfast	35.3	4.5	50.9	90.7	65.0	8.3	93.7	167.0
Northern	12.4	2.1	19.5	34.1	22.9	3.9	35.9	62.7
Southern	11.7	2.0	17.4	31.1	21.5	3.8	32.0	57.2
South Eastern	13.4	1.7	20.6	35.7	24.7	3.1	37.9	65.7
Western	11.9	1.9	18.2	32.0	21.9	3.5	33.5	58.9
Northern Ireland	84.8	12.3	126.6	223.6	156.0	22.6	233.0	411.5

Notes:

A consultant episode refers to a complete period of care under one consultant. It may be finished through death, discharge or transfer to another hospital or consultant.

Cardiovascular Disease has been defined using any International Classification of Disease (ICD-10) code beginning with the letter 'I'. Codes were searched for in any of 16 diagnosis fields.

Coronary Heart Disease has been defined using ICD-10 codes I20 - I25, searched for in any of 16 diagnosis fields.

Stroke has been defined using ICD-10 codes I60 - I64, searched for in any of 16 diagnosis fields.

To calculate expenditure per head of population, the ONS revised mid-year population 2014 estimates were used.

Source:

Hospital Inpatient System, Northern Ireland Reference Costs 2014/15.

Table 4.8 NHS expenditure on CVD by care setting and condition, Scotland 2011/12

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	Expenditure per head of population / £							Gross Expenditure (£ million)								
	Hospital Sector				Family Health Services			Total costs	Hospital Sector				Family Health Services			Total costs
	Acute Services	Geriatric Long Stay	A&E and outpatient services	Total Hospital Sector	Pharmaceutical Services	General Medical Services	Total Family Health Services		Acute Services	Geriatric Long Stay	A&E and outpatient services	Total Hospital Sector	Pharmaceutical Services	General Medical Services	Total Family Health Services	
Coronary heart disease	22.82	0.55	1.62	25.00	18.41	1.64	20.05	45.05	120.9	2.9	8.6	132.5	97.6	8.7	106.3	238.8
Stroke	17.63	3.43	0.89	21.95	0.65	1.27	1.91	23.87	93.5	18.2	4.7	116.3	3.4	6.7	10.1	126.5
Rhythm	7.71	0.12	0.71	8.55	0.29	1.30	1.59	10.14	40.9	0.6	3.8	45.3	1.5	6.9	8.4	53.7
Other CVD	33.02	1.36	6.25	40.63	15.46	15.16	30.62	71.25	175.0	7.2	33.1	215.3	81.9	80.4	162.3	377.6
Total CVD	81.19	5.46	9.47	96.12	34.80	19.38	54.18	150.30	430.3	28.9	50.2	509.4	184.5	102.7	287.2	796.6

Notes:

Expenditure data included within this workbook are taken from the 2011/12 programme budgeting returns. Programme budgeting returns represent a subset of overall NHS expenditure.

Programme budgeting in Scotland involves collating and presenting NHS expenditure on the basis of programmes of care rather than on the basis of inputs or accounting conventions.

The 2011/12 Scottish Health Service Costs Book was used as the primary data source, with much of the programme budgeting category distribution based on analysis conducted using nationally available datasets.

Scotland does not currently collect programme level cost information from NHS Boards. The principal cost data collection is the Scottish Health Service Costs Book which reports expenditure on the basis of specialty or service (e.g. Family Health Services (FHS)).

To calculate expenditure per head of population, the ONS revised mid-year population 2011 estimates were used.

Source:

Population Health, Analytical Services, Health Finance, eHealth and Analytics; Scottish Government

**Heart and Circulatory Disease Statistics 2020 - Chapter 5 - Risk Factors****IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES IN UK**

Table 5.1	Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, UK, 2007, 2012, and 2017
Table 5.2	Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, England, 2017
Table 5.3	Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Scotland, 2017
Table 5.4	Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Wales, 2017
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Table 5.14	Prevalence of cigarette smoking among adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available
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GLOBAL IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES

Table 5.19	Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors - global estimates, 2017
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Table 5.1 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, UK, 2007, 2012, and 2017

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Reset to Published Order	RISK FACTOR (% attributable)	estimated burden - UK DEATHS									estimated burden - UK DALYs								
		Heart and circulatory diseases (CVD)			Coronary heart disease (CHD)			Stroke (CBVD)			Heart and circulatory diseases (CVD)			Coronary heart disease (CHD)			Stroke (CBVD)		
		2007	2012	2017	2007	2012	2017	2007	2012	2017	2007	2012	2017	2007	2012	2017	2007	2012	2017
		2007	2012	2017	2007	2012	2017	2007	2012	2017	2007	2012	2017	2007	2012	2017	2007	2012	2017
	All modifiable risk factors	80.4%	78.0%	78.0%	93.4%	92.9%	93.0%	79.8%	78.1%	78.4%	81.4%	79.2%	79.3%	94.7%	94.3%	94.5%	84.0%	82.9%	83.2%
	High systolic blood pressure (hypertension)	48.7%	45.3%	45.4%	66.8%	66.8%	49.9%	48.6%	45.4%	45.6%	51.1%	48.1%	48.2%	70.2%	70.3%	52.9%	52.5%	49.6%	49.8%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	44.7%	43.0%	42.6%	53.0%	49.8%	66.7%	32.1%	31.9%	32.0%	46.7%	44.9%	44.4%	55.6%	52.8%	70.2%	40.5%	40.7%	40.6%
	High LDL (bad) cholesterol	27.0%	25.4%	24.9%	45.2%	44.6%	44.5%	22.6%	24.3%	11.3%	28.4%	26.6%	26.1%	50.2%	49.8%	49.5%	25.9%	25.9%	12.0%
	High fasting plasma glucose (diabetes)	20.9%	22.0%	23.5%	27.9%	30.4%	32.9%	14.7%	14.3%	26.1%	22.0%	22.0%	20.1%	23.3%	25.5%	28.7%	20.5%	22.2%	25.0%
	High body-mass index (obesity)	16.3%	16.2%	16.5%	20.2%	20.3%	20.7%	11.8%	11.5%	14.7%	17.1%	18.0%	22.3%	26.5%	26.9%	27.3%	16.4%	14.7%	26.1%
	Tobacco (cigarette smoking, second hand smoke)	13.8%	11.6%	11.4%	17.7%	15.5%	15.3%	11.0%	9.3%	9.0%	18.5%	16.3%	15.9%	24.6%	22.6%	22.4%	11.9%	12.0%	14.1%
	Low physical activity (inactivity, sedentary behaviour)	8.2%	7.9%	7.8%	12.0%	12.1%	12.1%	7.1%	7.0%	6.9%	7.4%	7.1%	7.1%	11.5%	11.6%	11.5%	6.4%	6.5%	6.5%
	Impaired kidney function (renal failure)	7.2%	7.1%	7.0%	10.1%	10.5%	10.3%	6.5%	6.6%	6.6%	7.0%	6.4%	5.1%	10.7%	10.3%	7.6%	6.4%	6.1%	5.6%
	Air pollution (particulate matter)	6.3%	5.7%	5.4%	9.2%	8.7%	8.2%	5.6%	5.3%	5.0%	5.3%	5.2%	6.0%	7.6%	7.7%	9.6%	5.5%	5.5%	5.7%
	Other environmental risks (e.g. lead exposure)	2.0%	1.9%	1.7%	2.3%	2.1%	2.0%	2.3%	1.6%	1.7%	1.9%	1.7%	1.5%	2.2%	2.0%	1.8%	4.9%	3.9%	1.6%
	Alcohol use	-4.4%	-4.4%	-4.1%	-11.6%	-12.1%	-12.0%	2.0%	1.9%	2.0%	-2.2%	-2.2%	-2.1%	-10.1%	-10.8%	-10.8%	1.9%	1.8%	3.8%
	Other risk factors/unknown	19.6%	22.0%	22.0%	6.6%	7.1%	7.0%	20.2%	21.9%	21.6%	18.6%	20.8%	20.7%	5.3%	5.7%	5.5%	16.0%	17.1%	16.8%

Notes

Negative percentages shown where overall the positive benefits of this factor are estimated to outweigh the negatives.

Non-modifiable risk factors (age, gender, family history, ethnicity, deprivation/socioeconomic status etc) are not included in this analysis.

DALYs - disability-adjusted life years - sum of lost healthy years across the population

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8,

I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Source:

Global Health Data Exchange, Global Burden of Disease (GBD) Results Tool

<http://ghdx.healthdata.org/gbd-results-tool>

Table 5.2 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, England, 2017

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Reset to Published Order	RISK FACTOR (% attributable)	2017 estimated burden - England DEATHS			2017 estimated burden - England DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	77.2%	92.8%	77.8%	78.5%	94.3%	82.7%
	High systolic blood pressure (hypertension)	44.4%	66.6%	44.6%	47.3%	70.0%	48.9%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	42.2%	48.9%	31.9%	43.9%	52.0%	40.6%
	High LDL (bad) cholesterol	24.7%	44.5%	26.2%	25.8%	49.5%	26.0%
	High fasting plasma glucose (diabetes)	23.4%	33.0%	14.5%	22.0%	28.8%	24.9%
	High body-mass index (obesity)	16.3%	20.5%	11.2%	19.9%	27.1%	13.5%
	Tobacco (cigarette smoking, second hand smoke)	10.8%	14.6%	8.6%	15.2%	21.5%	11.9%
	Low physical activity (inactivity, sedentary behaviour)	7.6%	12.0%	6.8%	6.9%	11.5%	6.4%
	Impaired kidney function (renal failure)	6.9%	10.4%	6.5%	6.0%	9.9%	5.9%
	Air pollution (particulate matter)	5.4%	8.4%	5.1%	5.0%	7.7%	5.5%
	Other environmental risks (e.g. lead exposure)	1.4%	1.6%	1.5%	1.2%	1.4%	3.4%
	Alcohol use	-4.2%	-12.1%	1.4%	-2.1%	-10.8%	1.3%
	Other risk factors/unknown	22.8%	7.2%	22.2%	21.5%	5.7%	17.3%

Notes

Negative percentages shown where the positive benefits of this factor are estimated to outweigh the negatives.

Non-modifiable risk factors (age, gender, family history, ethnicity, deprivation/socioeconomic status etc) are not included in this analysis.

DALYs - disability-adjusted life years - sum of lost healthy years across the population

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8,

I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Source:

Global Health Data Exchange, Global Burden of Disease (GBD) Results Tool

<http://ghdx.healthdata.org/gbd-results-tool>

Table 5.3 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Scotland, 2017

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Reset to Published Order	RISK FACTOR (% attributable)	2017 estimated burden - Scotland DEATHS			2017 estimated burden - Scotland DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	81.4%	93.7%	80.2%	82.8%	95.1%	84.7%
	High systolic blood pressure (hypertension)	48.4%	67.5%	48.0%	50.6%	71.2%	51.5%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	44.7%	52.2%	32.1%	47.6%	54.3%	40.6%
	High LDL (bad) cholesterol	26.1%	44.8%	24.9%	28.1%	50.1%	28.1%
	High fasting plasma glucose (diabetes)	23.2%	30.5%	16.6%	25.6%	30.6%	23.6%
	High body-mass index (obesity)	19.2%	23.8%	12.2%	21.0%	28.6%	17.9%
	Tobacco (cigarette smoking, second hand smoke)	15.7%	20.9%	11.6%	19.9%	26.1%	12.2%
	Low physical activity (inactivity, sedentary behaviour)	8.2%	11.9%	7.2%	7.5%	11.4%	6.8%
	Impaired kidney function (renal failure)	7.2%	9.9%	6.8%	5.5%	7.9%	5.9%
	Air pollution (particulate matter)	4.7%	6.8%	4.1%	5.2%	7.5%	5.2%
	Other environmental risks (e.g. lead exposure)	2.9%	3.2%	3.5%	2.8%	3.1%	4.7%
	Alcohol use	-3.7%	-11.9%	2.8%	-2.4%	-11.2%	2.8%
	<i>Other risk factors/unknown</i>	<i>18.6%</i>	<i>6.3%</i>	<i>19.8%</i>	<i>17.2%</i>	<i>4.9%</i>	<i>15.3%</i>

Notes

Negative percentages shown where the positive benefits of this factor are estimated to outweigh the negatives.

Non-modifiable risk factors (age, gender, family history, ethnicity, deprivation/socioeconomic status etc) are not included in this analysis.

DALYs - disability-adjusted life years - sum of lost healthy years across the population

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8,

I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Source:

Global Health Data Exchange, Global Burden of Disease (GBD) Results Tool

<http://ghdx.healthdata.org/gbd-results-tool>

Table 5.4 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Wales, 2017

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Reset to Published Order	RISK FACTOR (% attributable)	2017 estimated burden - Wales DEATHS			2017 estimated burden - Wales DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	80.4%	93.9%	81.1%	81.9%	95.3%	85.4%
	High systolic blood pressure (hypertension)	50.4%	67.6%	50.6%	53.4%	71.0%	54.9%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	44.0%	55.0%	32.5%	46.2%	58.1%	40.7%
	High LDL (bad) cholesterol	26.0%	45.4%	27.4%	27.5%	50.2%	27.5%
	High fasting plasma glucose (diabetes)	25.1%	34.4%	13.6%	22.7%	31.4%	24.0%
	High body-mass index (obesity)	15.1%	18.9%	11.7%	20.4%	24.9%	14.9%
	Tobacco (cigarette smoking, second hand smoke)	12.3%	16.6%	9.4%	17.4%	24.1%	12.3%
	Low physical activity (inactivity, sedentary behaviour)	8.7%	13.2%	7.6%	8.1%	12.7%	7.3%
	Impaired kidney function (renal failure)	7.0%	10.1%	6.7%	6.0%	9.5%	5.9%
	Air pollution (particulate matter)	5.4%	8.2%	5.0%	5.4%	7.7%	5.6%
	Other environmental risks (e.g. lead exposure)	3.5%	3.9%	3.5%	3.3%	3.8%	4.7%
	Alcohol use	-4.5%	-13.0%	3.0%	-2.9%	-12.2%	3.4%
	<i>Other risk factors/unknown</i>	<i>19.6%</i>	<i>6.1%</i>	<i>18.9%</i>	<i>18.1%</i>	<i>4.7%</i>	<i>14.6%</i>

Notes

Negative percentages shown where the positive benefits of this factor are estimated to outweigh the negatives.

Non-modifiable risk factors (age, gender, family history, ethnicity, deprivation/socioeconomic status etc) are not included in this analysis.

DALYs - disability-adjusted life years - sum of lost healthy years across the population

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8,

I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Source:

Global Health Data Exchange, Global Burden of Disease (GBD) Results Tool

<http://ghdx.healthdata.org/gbd-results-tool>

Table 5.5 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Northern Ireland, 2017

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Reset to Published Order	RISK FACTOR (% attributable)	2017 estimated burden - NI DEATHS			2017 estimated burden - NI DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	82.6%	94.2%	82.4%	83.3%	95.5%	86.3%
	High systolic blood pressure (hypertension)	53.7%	66.1%	53.3%	55.9%	69.4%	56.9%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	44.3%	58.5%	31.2%	46.1%	61.1%	39.8%
	High LDL (bad) cholesterol	26.5%	42.1%	27.9%	26.6%	47.5%	27.8%
	High fasting plasma glucose (diabetes)	25.0%	34.8%	14.5%	23.6%	31.7%	25.9%
	High body-mass index (obesity)	16.7%	20.5%	10.5%	22.5%	27.0%	13.4%
	Tobacco (cigarette smoking, second hand smoke)	10.9%	14.4%	8.3%	15.6%	21.3%	11.1%
	Low physical activity (inactivity, sedentary behaviour)	8.7%	12.7%	7.4%	7.9%	12.2%	9.3%
	Impaired kidney function (renal failure)	7.2%	10.0%	7.4%	5.8%	8.9%	6.9%
	Air pollution (particulate matter)	5.3%	7.7%	6.7%	5.4%	7.6%	5.7%
	Other environmental risks (e.g. lead exposure)	2.1%	2.3%	4.7%	1.9%	2.2%	5.3%
	Alcohol use	0.0%	-6.2%	2.0%	1.9%	-4.9%	2.0%
	<i>Other risk factors/unknown</i>	<i>17.4%</i>	<i>5.8%</i>	<i>17.6%</i>	<i>16.7%</i>	<i>4.5%</i>	<i>13.7%</i>

Notes

Negative percentages shown where the positive benefits of this factor are estimated to outweigh the negatives.

Non-modifiable risk factors (age, gender, family history, ethnicity, deprivation/socioeconomic status etc) are not included in this analysis.

DALYs - disability-adjusted life years - sum of lost healthy years across the population

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8,

I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Source:

Global Health Data Exchange, Global Burden of Disease (GBD) Results Tool

<http://ghdx.healthdata.org/gbd-results-tool>

Table 5.6 Prevalence of high blood pressure in adults by age and gender, England and Scotland, latest available

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Age in years	Estimated prevalence						Estimated prevalence					
	England 2018						Scotland 2017/18					
	Men %	Men (000)s	Women %	Women (000)s	All %	All (000)s	Men %	Men (000)s	Women %	Women (000)s	All %	All (000)s
16-24	4	140	0.5	10	3	150	7	20	7	20	7	40
25-34	9	330	5	200	7	530	6	20	4	20	5	40
35-44	16	570	8	290	12	860	15	50	10	30	12	80
45-54	28	1,080	20	760	24	1,840	35	130	22	90	29	220
55-64	45	1,470	37	1,240	41	2,710	47	170	43	160	45	330
65-74	59	1,580	57	1,640	58	3,220	59	160	59	180	59	340
75+	66	1,310	66	1,750	66	3,060	64	120	74	200	70	320
All Adults	30	6,480	26	5,890	28	12,370	31	670	30	700	31	1,370

Notes: Data for England and Scotland includes those being treated or not treated for high blood pressure.

High Blood Pressure: Systolic BP at or greater than 140mmHg and Dystolic BP at or greater than 90mmHg

Does not include high blood pressure while pregnant. Diagnosed hypertension totals by UK nation and region are featured in Table 2.21 of Chapter 2b

All population figures are health survey results applied to mid-2018 estimates published by age band, gender and nation by the Office for National Statistics.

Source: NHS Digital (2019). Health Survey for England 2018, Adult Health Tables.

The Scottish Government (2019). The Scottish Health Survey 2018. The Scottish Government: Edinburgh.

Table 5.7 Prevalence of untreated high blood pressure in adults by age and gender, England and Scotland, latest available

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Age in years	England 2018						Scotland 2017/18					
	Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	4	120	0.5	10	2	130	7	20	7	20	7	40
25-34	7	270	5	200	6	470	6	20	4	20	5	40
35-44	14	500	6	230	10	730	13	40	9	30	11	70
45-54	13	500	9	350	11	850	20	80	14	60	17	140
55-64	20	650	17	560	18	1,210	28	100	23	90	25	190
65-74	16	430	20	570	18	1,000	25	70	28	80	27	150
75+	18	350	15	390	16	740	37	70	29	80	32	150
All Adults	13	2,820	10	2,310	12	5,130	18	400	16	380	17	780

Notes: Hypertension diagnosed by nurse. Data weighted for non-response. NI/Wales surveys do not disclose.

Hypertensive untreated: Systolic BP at or greater than 140mmHg and Dystolic BP at or greater than 90mmHg, not currently taking medication for blood pressure.

All population figures are health survey results applied to mid-2018 estimates published by age band, gender and nation by the Office for National Statistics.

Source: NHS Digital (2019). Health Survey for England 2018, Adult Health Tables.

The Scottish Government (2019). The Scottish Health Survey 2018. The Scottish Government: Edinburgh.

Table 5.8 Prevalence of diabetes in adults by age and gender, England and Scotland, 2018

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Age in years	England 2018						Scotland 2018					
	Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	0.3	10	0.2	10	0.3	20	1	0	0	0	1	0
25-34	0.5	20	0.7	30	0.6	50	2	10	2	10	2	20
35-44	3	110	2	60	2	170	3	10	5	20	4	30
45-54	10	370	6	240	8	610	6	20	3	10	4	30
55-64	13	410	8	280	10	690	13	50	11	40	12	90
65-74	19	510	11	310	15	820	19	50	14	40	16	90
75+	20	400	16	410	18	810	14	30	13	30	13	60
All Adults	8	1,830	6	1,340	7	3,170	8	170	6	150	7	320

Notes: Excludes diabetes in pregnancy. England and Scotland asked if diagnosed.

All population figures are health survey results applied to mid-2018 estimates published by age band, gender and nation by the Office for National Statistics.

Source: NHS Digital (2019). Health Survey for England 2018, Adult Health Tables.

The Scottish Government (2019). The Scottish Health Survey 2018. The Scottish Government: Edinburgh.

Table 5.9 Prevalence of Diagnosed Diabetes by nation and region, United Kingdom 2018/19[Back to Table of Contents](#)

Nation/Region	Diabetes Register	
	Patients	Aged 17+ %
East Midlands	296,424	7.3
East of England	350,283	6.7
London	536,218	6.6
North East England	169,060	7.4
North West England	458,308	7.3
South East England	486,411	6.2
South West England	316,218	6.6
West Midlands	391,587	7.8
Yorkshire and The Humber	337,495	7.2
England	3,342,004	6.9
Scotland	295,000	n/a
Wales	198,883	7.6
Northern Ireland	99,833	6.4
UK	3,935,720	n/a

Notes:

England - Copyright © Health and Social Care Information Centre 2019.

These data show raw prevalence: unadjusted total numbers of people on GP patient registers in each area.

For England, Wales and Northern Ireland, prevalence of diabetes is based on patient list for those aged 17 and over. For Scotland this is for all ages.

England totals include some 2017/18 data because several dozen practices were missing in 2018/19 (Cornwall & Devon)

For Scotland, adjustments have been made for areas where patients were missing from lists.

Source:

England - Health and Social Care Information Centre. QOF achievement data 2018/19

<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2017-18>

Wales - StatsWales. QOF achievement data 2018/19

<https://gov.wales/general-medical-services-contract-quality-and-outcomes-framework-april-2018-march-2019>

Scotland - ISD Scotland. QOF prevalence data 2018/19 obtained via personal communication

Northern Ireland - Department of Health, Social Services and Public Safety. QOF exception reporting data 2018/19,

<https://www.health-ni.gov.uk/topics/doh-statistics-and-research/quality-outcomes-framework-qof>

Table 5.10 Percentage of adults with raised cholesterol by age and gender, England, 2018[Back to Table of Contents](#)

Age in years	England 2018					
	Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s
16-24	14	440	17	490	16	930
25-34	38	1,450	33	1,230	35	2,680
35-44	54	1,890	42	1,500	48	3,390
45-54	62	2,370	60	2,350	61	4,720
55-64	58	1,870	73	2,440	65	4,310
65-74	42	1,120	68	1,950	55	3,070
75+	29	580	52	1,370	42	1,950
All Adults	44	9,720	49	11,330	47	21,050

Notes: Includes those on lipid lowering drugs. Blood sample via nurse visit.

Raised total cholesterol: Total cholesterol greater than or equal to 5mmol/L.

All population figures are health survey results applied to mid-2018 estimates published by age band, gender and nation by the Office for National Statistics.

Scotland data not updated since 2010/11, therefore removed.

Source: NHS Digital (2019). Health Survey for England 2018, Adult Health Tables.

Table 5.11 Prevalence of overweight (including obese) in adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

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Age in years	England 2018						Scotland 2018						Wales 2018/19						Northern Ireland 2018/19						UK estimated population					
	Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	36	1,100	35	1,020	35	2,120	47	140	43	120	45	260	44	80	32	50	38	130					35	70	36		34		36	2,580
25-34	55	2,110	53	1,990	54	4,100	62	230	55	210	58	440	62	120	48	90	56	210					53	130	55		51		54	4,880
35-44	68	2,390	61	2,190	64	4,580	64	210	61	210	63	420	77	130	51	90	65	220					64	150	66		59		64	5,370
45-54	76	2,910	64	2,510	70	5,420	80	300	68	270	74	570	74	150	63	140	69	290					73	190	74		63		70	6,470
55-64	82	2,660	66	2,230	74	4,890	74	260	72	270	73	530	74	150	61	120	67	270					74	170	78		65		74	5,860
65-74	79	2,120	70	2,030	75	4,150	79	220	73	220	76	440	70	120	58	110	64	230					70	120	77		68		74	4,940
75+	75	1,470	67	1,790	71	3,260	75	140	62	170	68	310	58	70	46	80	51	150					64	90	72		64		69	3,810
All Adults	67	14,760	60	13,760	63	28,520	68	1,500	63	1,470	65	2,970	66	820	52	680	59	1,500	68	490	56	430	62	920	67	17,570	59	16,340	63	33,910

Notes: Overweight = BMI 25 to less than 30kg/m2. Obese = BMI 30kg/m2 or more (includes morbidly obese). Wales uses self-reported data.

All population figures are health survey results applied to mid-2018 estimates published by age band, gender and nation by the Office for National Statistics.

Please see the previous BHF Compendium of Statistics for Northern Ireland figures by age-groups for each gender.

UK percentages are population-weighted averages based on data from all four nations, where available.

Source: NHS Digital (2019). Health Survey for England 2018.

The Scottish Government (2019). The Scottish Health Survey 2018. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2018-19

Northern Ireland Statistics and Research Agency (2020). Health Survey Northern Ireland 2018/19.

Table 5.12 Prevalence of obesity in adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

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Age in years	England 2018					Scotland 2018					Wales 2018/19					Northern Ireland 2018/19					UK estimated population				
	Men		Women		All	Men		Women		All	Men		Women		All	Men		Women		All	Men		Women		All
	%	(000)s	%	(000)s	% (000)s	%	(000)s	%	(000)s	% (000)s	%	(000)s	%	(000)s	% (000)s	%	(000)s	%	(000)s	% (000)s	%	(000)s	%	(000)s	% (000)s
16-24	13	390	14	420	14 810	12	40	17	50	14 90	16	30	13	20	15 50					13 30	12		14		14 980
25-34	17	670	25	930	21 1,600	22	80	24	90	23 170	21	40	21	40	21 80					20 50	17		24		21 1,900
35-44	25	870	30	1,070	27 1,940	25	80	33	110	29 190	26	40	26	50	26 90					25 60	24		29		27 2,280
45-54	36	1,360	34	1,340	35 2,700	39	150	34	140	36 290	30	60	25	60	28 120					30 80	35		33		35 3,190
55-64	33	1,060	37	1,240	35 2,300	30	110	34	130	32 240	32	60	29	60	31 120					34 80	31		35		34 2,740
65-74	32	840	33	940	32 1,780	36	100	36	110	36 210	25	40	25	50	25 90					28 50	31		32		32 2,130
75+	28	560	28	740	28 1,300	23	40	24	60	24 100	12	20	14	20	13 40					22 30	26		26		27 1,470
All Adults	26	5,750	29	6,680	28 12,430	27	600	30	690	28 1,290	24	290	23	300	23 590	26	190	27	210	25 400	26	6,830	29	7,880	27 14,710

Notes: Obese = BMI 30kg/m2 or more (includes morbidly obese). Wales uses self-reported data.

All population figures are health survey results applied to mid-2018 estimates published by age band, gender and nation by the Office for National Statistics.

Please see the previous compendia for Northern Ireland figures by age-groups for each gender.

UK percentages are population-weighted averages based on data from all four nations, where available.

Source: NHS Digital (2019). Health Survey for England 2018.

The Scottish Government (2019). The Scottish Health Survey 2018. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2018-19

Northern Ireland Statistics and Research Agency (2018). Health Survey Northern Ireland 2018/19.

Table 5.13 Percentage of adults NOT meeting physical activity recommendations by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

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	England 2017/18						Scotland 2018						Wales 2018/19							Northern Ireland 2016/17							UK estimated population					
	Men		Women		All		Men		Women		All		Men		Women		All			Men		Women		All			Men		Women		All	
Age	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	Age	%	(000)s	%	(000)s	%	(000)s	Age	%	(000)s	%	(000)s	%	(000)s
18-24	24	730	26	750	25	1,480	17	50	30	90	23	140	25	50	47	80	36	130	19-24	23	20	40	30	33	50	18-24	23		27		25	1,800
25-34	30	1,160	33	1,230	31	2,390	17	60	23	90	20	150	32	60	43	80	38	140	25-34	34	40	32	40	33	80	25-34	29		32		31	2,760
35-44	33	1,170	34	1,200	33	2,370	21	70	28	90	24	160	37	60	49	90	43	150	35-44	25	30	33	40	30	70	35-44	32		34		33	2,750
45-54	34	1,280	36	1,390	35	2,670	31	120	36	140	34	260	42	90	52	110	47	200	45-54	32	40	42	60	38	100	45-54	34		36		35	3,230
55-64	38	1,230	41	1,370	39	2,600	35	120	40	150	36	270	45	90	50	100	48	190	55-64	51	60	55	60	53	120	55-64	38		41		40	3,180
65-74	40	1,060	45	1,300	43	2,360	44	120	50	150	46	270	47	80	53	100	50	180	65-74	51	40	65	60	59	100	65-74	41		47		44	2,910
75+	59	1,170	69	1,830	65	3,000	62	120	74	200	69	320	76	100	80	130	78	230	75+	86	50	92	70	90	120	75+	61		70		66	3,670
All Adults	35	7,800	39	9,070	37	16,870	30	660	38	910	35	1,570	42	530	53	690	47	1,220	All Adults	39	280	49	360	45	640	All Adults	35	9,270	40	11,030	38	20,300

Notes: Guidelines are for at least 150 minutes moderate or 75 minutes vigorous activity per week or an equivalent combination.

All population figures are health survey results applied to mid-2018 estimates published by age band, gender and nation by the Office for National Statistics.

UK percentages are population-weighted averages based on data from all four nations, where available.

Source: Sport England (2019). Active Lives Survey November 2017/18

The Scottish Government (2019). The Scottish Health Survey 2018. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2018-19

Northern Ireland Statistics and Research Agency (2017). Health Survey Northern Ireland 2016/17.

Table 5.14 Prevalence of cigarette smoking among adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

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Age in years	England 2018						Scotland 2018						Wales 2018/19						Northern Ireland 2018/19						UK estimated population					
	Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	22	690	16	460	19	1,150	24	70	13	40	19	110	16	30	20	30	18	60					20	40	21		15		19	1,360
25-34	27	1,030	22	810	24	1,840	23	80	24	90	23	170	28	60	23	40	25	100					28	70	26		21		24	2,180
35-44	21	740	16	570	18	1,310	28	90	19	60	24	150	21	40	15	30	18	70					18	40	21		16		19	1,570
45-54	21	790	18	710	19	1,500	23	90	22	90	22	180	21	40	19	40	20	80					21	60	20		18		20	1,820
55-64	16	520	15	510	16	1,030	19	70	14	50	16	120	17	30	17	30	17	60					16	40	16		15		16	1,250
65-74	10	260	9	260	9	520	13	40	12	40	13	80	13	20	15	30	14	50					12	20	10		9		10	670
75+	3	70	6	170	5	240	8	10	9	20	9	30	5	10	4	10	4	20					6	10	4		6		5	300
All Adults	18	4,100	15	3,490	17	7,590	21	450	17	390	19	840	18	230	16	210	17	440	20	140	17	130	18	270	19	4,920	15	4,220	17	9,140

Notes: Aged 16+ years. Respondents were asked if they smoke cigarettes. Current cigarette smokers exclude those who reported smoking only cigars or pipes.

All estimates and totals are rounded to one significant figure and may not add up due to rounding.

All population figures are health survey results applied to mid-2018 estimates published by age band, gender and nation by the Office for National Statistics.

UK percentages are population-weighted averages based on data from all four nations, where available.

Please see previous compendia for Northern Ireland figures by age-groups for each gender.

Source: NHS Digital (2019). Health Survey for England 2018, Adult behaviours and risks.

The Scottish Government (2019). The Scottish Health Survey 2018. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2018-19

Northern Ireland Statistics and Research Agency (2018). Health Survey Northern Ireland 2017/18.

Table 5.15 Percentage of adults exceeding weekly alcohol consumption guidelines by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

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Age	England 2018			Scotland 2018			Wales 2018/19			Age	Northern Ireland 2017/18			Age	UK Total		
	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %		Men %	Women %	All %		Men %	Women %	All %
18-24	23	12	18	27	18	22	22	7	15	18-24	38	16	26	18-24	23	13	18
25-34	27	10	19	34	14	24	19	8	14	25-34	33	9	19	25-34	27	11	19
35-44	27	15	21	34	18	26	22	18	20	35-44	34	9	18	35-44	27	16	21
45-54	34	16	25	30	22	26	28	14	21	45-54	32	10	19	45-54	33	16	25
55-64	38	19	29	36	18	27	35	13	24	55-64	33	8	18	55-64	38	18	28
65-74	36	16	26	34	13	23	30	12	21	65-74	27	9	16	65-74	35	15	25
75+	25	10	17	24	5	12	15	12	13	75+	12	3	6	75+	24	10	16
All Adults	30	14	22	32	16	24	25	12	18	All Adults	31	9	18	All Adults	30	14	22

Notes: Weekly limits are 14 units in men and women. In January 2016 the Chief Medical Officers of the United Kingdom revised their recommendations for men from 21 units.
UK percentages are population-weighted averages based on data from all four nations, where available.

Source: NHS Digital (2019). Health Survey for England 2018, Adult behaviours and risks.

The Scottish Government (2019). The Scottish Health Survey 2018. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2018-19

Northern Ireland Statistics and Research Agency (2018). Health Survey Northern Ireland 2017/18.

Table 5.16 Percentage of adults NOT meeting 5-a-day fruit and vegetable recommendations by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

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Age in years	England 2018			Scotland 2018			Wales 2018/19			N Ireland 2018/19			UK Total		
	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %
16-24	82	74	78	82	75	79	84	75	80			59	80	72	78
25-34	77	71	74	81	73	78	77	73	75				75	69	74
35-44	72	63	68	86	71	78	70	71	70				71	62	68
45-54	75	71	73	82	78	78	79	76	77				73	70	73
55-64	72	67	70	79	74	77	80	70	75				71	66	70
65-74	73	70	72	78	76	78	75	78	76				72	69	72
75+	74	75	75	79	84	82	84	83	83				73	74	75
All Adults	75	70	72	81	76	79	78	75	76	57	51	54	75	70	72

Notes: Recommendation is at least 5 portions of different types of fruit or vegetable. A portion is typically 80 grams.

UK percentages are population-weighted averages based on data from all four nations, where available.

Please see the previous compendia for Northern Ireland figures by age-groups for each gender.

Source: NHS Digital (2019). Health Survey for England 2018.

The Scottish Government (2019). The Scottish Health Survey 2018. The Scottish Government: Edinburgh

National Survey for Wales - Population health: health-related lifestyle (adults), 2018-19

Northern Ireland Statistics and Research Agency (2019). Health Survey Northern Ireland 2018/19.

Table 5.17 Average number of portions of fruit and vegetables consumed per day by adults by age and gender, England and Scotland, 2018

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Age in years	England 2018			Scotland 2018		
	Men	Women	All	Men	Women	All
	Mean Portions			Mean Portions		
16-24	2.7	3.2	3.0	2.5	3.5	3.0
25-34	3.3	3.8	3.5	2.9	3.7	3.3
35-44	3.8	4.2	4.0	2.8	3.6	3.2
45-54	3.6	3.9	3.7	2.8	3.4	3.1
55-64	3.8	4.1	3.9	3.2	3.7	3.4
65-74	3.8	4.0	3.9	3.1	3.5	3.3
75+	3.6	3.4	3.5	3.2	3.0	3.1
All Adults	3.5	3.8	3.7	2.9	3.5	3.2

Notes: Recommendation is at least 5 portions of different types of fruit or vegetable. A portion is typically 80 grams.

Source: NHS Digital (2019). Health Survey for England 2018.

The Scottish Government (2020). The Scottish Health Survey 2018. The Scottish Government: Edinburgh.

Table 5.18 Levels of Air Pollution (fine particulate matter; PM_{2.5}) by nation and region, United Kingdom 2018

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Nation/Region	PM _{2.5} 2018 (anthropogenic)
East Midlands	8.7
East of England	9.7
London	11.8
North East England	6.6
North West England	7.6
South East England	10.0
South West England	7.7
West Midlands	8.7
Yorkshire and The Humber	7.9
England	9.1
Scotland	5.4
Wales	7.2
Northern Ireland	6.9
UK	8.6

Notes:

Population-weighted annual mean PM_{2.5} concentration for 2018 (ugm-3)

The anthropogenic component is used for health burden calculations as burden estimates based on total PM_{2.5} might give a misleading impression of the scale of the potential influence of policy intervention.

UK percentage is a population-weighted average.

Source:

Department for Environment Food & Rural Affairs (DEFRA) (2019). UK Air Information Resource

<https://uk-air.defra.gov.uk/data/pcm-data>

Table 5.19 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, global, 2017

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Reset to Published Order	RISK FACTOR (% attributable)	2017 estimated burden - GLOBAL DEATHS			2017 estimated burden - GLOBAL DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	85.9%	93.8%	85.1%	85.8%	95.0%	88.1%
	High systolic blood pressure (hypertension)	54.6%	54.7%	54.5%	54.8%	55.7%	57.1%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	53.4%	69.7%	47.4%	56.6%	74.0%	55.8%
	High LDL (bad) cholesterol	24.3%	42.4%	8.6%	25.9%	48.3%	9.6%
	High fasting plasma glucose (diabetes)	20.0%	25.4%	20.6%	18.3%	23.4%	20.3%
	High body-mass index (obesity)	17.3%	18.2%	17.3%	22.1%	23.1%	25.3%
	Tobacco (cigarette smoking, second hand smoke)	17.2%	21.6%	17.0%	21.2%	27.8%	21.1%
	Air pollution (particulate matter)	11.6%	15.5%	11.0%	13.2%	18.8%	12.4%
	Impaired kidney function (renal failure)	7.6%	9.9%	7.6%	6.9%	8.7%	7.7%
	Low physical activity (inactivity, sedentary behaviour)	6.7%	10.0%	4.8%	5.7%	9.1%	4.1%
	Other environmental risks (e.g. lead exposure)	5.6%	5.5%	6.0%	5.6%	5.6%	6.2%
	Alcohol use	3.9%	-1.3%	9.1%	5.7%	0.2%	10.7%
	<i>Other risk factors/unknown</i>	<i>14.1%</i>	<i>6.2%</i>	<i>14.9%</i>	<i>14.2%</i>	<i>5.0%</i>	<i>11.9%</i>

Notes

Negative percentages shown where the positive benefits of this factor are estimated to outweigh the negatives.

Non-modifiable risk factors (age, gender, family history, ethnicity, deprivation/socioeconomic status etc) are not included in this analysis.

DALYs - disability-adjusted life years - sum of lost healthy years across the population

ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8,

I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Source:

Global Health Data Exchange, Global Burden of Disease (GBD) Results Tool

<http://ghdx.healthdata.org/gbd-results-tool>