



British Heart
Foundation

Heart and Circulatory Disease Statistics 2023

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There are **five** chapters presented here: mortality, morbidity, treatment, costs and risk factors.

Original Excel spreadsheets can be found at
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GLOSSARY

Definitions for the terms used in this compendium

Acute coronary syndrome (ACS) - a spectrum of conditions, including heart attack, that stop or reduce the blood from flowing to the heart muscle.

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 which may have 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 a hardening or narrowing 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. Full scientific name is diabetes mellitus.

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

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 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).

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 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 British Heart Foundation funds world-leading research into their causes, treatment and prevention.

Advances from our research have helped save and improve 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.

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August 2023 - Tables 1.25 to 1.29 updated

Heart and Circulatory Disease Statistics 2023 - 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).

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Table 1.1 Deaths by cause, by sex and age, United Kingdom 2021

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All causes	MEN	338,625	7,444	7,405	17,194	35,430	65,953	103,146	102,053
	WOMEN	328,854	4,243	4,432	10,831	23,497	47,060	88,740	150,051
	Total	667,479	11,687	11,837	28,025	58,927	113,013	191,886	252,104
All heart and circulatory diseases		88,413	574	1,243	4,305	9,470	17,092	27,279	28,450
(I00-I99, C38.0, F01, G45, P29, Q20-Q28)		79,617	324	564	1,608	3,897	8,879	21,340	43,005
		168,030	898	1,807	5,913	13,367	25,971	48,619	71,455
Diseases of the circulatory system (I00-I99)	MEN	82,880	465	1,219	4,260	9,412	16,722	25,365	25,437
	WOMEN	70,962	243	541	1,586	3,844	8,607	19,323	36,818
	Total	153,842	708	1,760	5,846	13,256	25,329	44,688	62,255
Chronic rheumatic heart diseases (I05-I09)	MEN	459	3	5	16	32	94	146	163
	WOMEN	744	3	11	14	33	99	251	333
	Total	1,203	6	16	30	65	193	397	496
Hypertensive diseases (I10-I15)	MEN	3,824	6	53	194	391	671	1,039	1,470
	WOMEN	5,224	6	13	93	194	440	1,135	3,343
	Total	9,048	12	66	287	585	1,111	2,174	4,813
Coronary heart disease (I20-I25)	MEN	42,434	112	557	2,516	6,026	9,918	12,852	10,453
	WOMEN	23,145	19	157	603	1,754	3,639	6,763	10,210
	Total	65,579	131	714	3,119	7,780	13,557	19,615	20,663
Myocardial infarction (I21-I22)	MEN	15,921	55	249	1,054	2,453	3,780	4,932	3,398
	WOMEN	9,153	10	82	261	727	1,539	2,893	3,641
	Total	25,074	65	331	1,315	3,180	5,319	7,825	7,039
Other heart diseases (I26-I52)	MEN	15,050	193	309	638	1,143	2,193	4,266	6,308
	WOMEN	17,543	140	152	305	659	1,508	4,086	10,693
	Total	32,593	333	461	943	1,802	3,701	8,352	17,001
Stroke (cerebrovascular disease; CBVD) (I60-I69)	MEN	14,959	90	181	562	1,130	2,518	4,960	5,518
	WOMEN	18,755	46	122	387	843	1,988	5,229	10,140
	Total	33,714	136	303	949	1,973	4,506	10,189	15,658
Diseases of arteries, arterioles and capillaries (I70-I79)	MEN	4,821	32	46	186	398	968	1,811	1,380
	WOMEN	3,959	9	18	63	155	576	1,415	1,723
	Total	8,780	41	64	249	553	1,544	3,226	3,103
Diseases of veins, lymphatic vessels and lymph nodes* (I80-I89)	MEN	1,320	28	68	148	291	358	289	138
	WOMEN	1,581	20	68	121	206	357	441	368
	Total	2,901	48	136	269	497	715	730	506
Malignant neoplasm: Heart (C38.0)	MEN	9	2	-	2	1	1	1	2
	WOMEN	8	-	1	2	2	-	2	1
	Total	17	2	1	4	3	1	3	3
Vascular dementia (F01)	MEN	5,248	-	-	2	30	339	1,882	2,995
	WOMEN	8,377	-	1	2	13	250	1,987	6,124
	Total	13,625	-	1	4	43	589	3,869	9,119
Transient cerebral ischaemic attacks and related syndromes (G45)	MEN	12	-	-	-	-	1	3	8
	WOMEN	37	-	-	-	-	-	4	33
	Total	49	-	-	-	-	1	7	41
Cardiovascular disorders originating in the perinatal period (P29)	MEN	5	5	-	-	-	-	-	-
	WOMEN	6	6	-	-	-	-	-	-
	Total	11	11	-	-	-	-	-	-
Congenital malformations of the circulatory system # (Q20-Q28)	MEN	259	102	24	41	27	29	28	8
	WOMEN	227	75	21	18	38	22	24	29
	Total	486	177	45	59	65	51	52	37
Cancer (C00-D48)	MEN	90,251	634	991	3,645	11,328	23,580	30,481	19,592
	WOMEN	79,934	634	1,363	4,084	9,990	18,946	25,439	19,256
	Total	170,185	1,268	2,354	7,729	21,318	42,526	55,920	38,848
Lung cancer (C33,C34)	MEN	17,293	10	87	644	2,366	5,516	6,089	2,581
	WOMEN	15,873	13	67	517	2,060	4,988	5,603	2,625
	Total	33,166	23	154	1,161	4,426	10,504	11,692	5,206
Breast cancer (C50)	MEN	93	1	2	-	9	26	30	25
	WOMEN	10,938	103	405	1,137	1,775	2,141	2,786	2,591
	Total	11,031	104	407	1,137	1,784	2,167	2,816	2,616
Respiratory disease (excl COVID-19) (J00-J99)	MEN	31,441	122	211	660	2,069	5,845	10,911	11,623
	WOMEN	30,335	87	120	470	1,723	4,899	9,210	13,826
	Total	61,776	209	331	1,130	3,792	10,744	20,121	25,449
Lower respiratory disease (J40 - J47)	MEN	14,722	27	66	329	1,186	3,507	5,681	3,926
	WOMEN	14,964	21	36	265	1,182	3,382	5,555	4,523
	Total	29,686	48	102	594	2,368	6,889	11,236	8,449
[other] Diabetes (E10-E14)	MEN	4,536	71	87	216	433	807	1,394	1,528
	WOMEN	4,277	41	57	110	307	518	1,144	2,100
	Total	8,813	112	144	326	740	1,325	2,538	3,628
[other] Unspecified dementia/Alzheimer's (F03, G30)	MEN	18,346	2	1	10	132	1,078	5,975	11,148
	WOMEN	37,207	-	2	11	155	1,469	8,770	26,800
	Total	55,553	2	3	21	287	2,547	14,745	37,948
[other] COVID-19 (coronavirus) (U07)	MEN	40,401	265	637	1,806	4,507	7,944	12,522	12,720
	WOMEN	33,630	179	398	1,140	2,613	4,978	9,046	15,276
	Total	74,031	444	1,035	2,946	7,120	12,922	21,568	27,996

Notes: ICD-10 codes in parentheses. C38.0 deaths not available for Scotland or Northern Ireland. *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

Citation: BHF (2023) Analysis of official UK mortality data

Sources: England and Wales, Office for National Statistics (2022) Deaths registered by cause, sex and age.
www.nomisweb.co.uk/datasets/mortsa
Scotland, National Records of Scotland (2022) Deaths, by sex, age and cause.
www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/general-publications/vital-events-reference-tables/2021
Northern Ireland, Statistics and Research Agency (2022) Deaths by sex, age and cause

Table 1.2 Deaths by cause, by sex and age, England, Wales, Scotland and Northern Ireland 2021

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		All ages				Under 75			
		England	Wales	Scotland	Northern Ireland	England	Wales	Scotland	Northern Ireland
All causes	MEN	279,173	18,315	31,798	8,838	108,141	7,197	14,117	3,616
	WOMEN	270,176	17,820	31,789	8,720	72,415	4,926	9,943	2,561
	Total	549,349	36,135	63,587	17,558	180,556	12,123	24,060	6,177
All heart and circulatory diseases (I00-I99, C38.0, F01, G45, P29, Q20-Q28)	MEN	72,100	5,062	9,018	2,067	26,371	1,915	3,542	740
	WOMEN	64,516	4,441	8,621	1,966	12,110	949	1,803	371
	Total	136,616	9,503	17,639	4,033	38,481	2,864	5,345	1,111
Diseases of the circulatory system (I00-I99)	MEN	67,744	4,754	8,289	1,931	25,895	1,887	3,459	725
	WOMEN	57,703	3,973	7,449	1,768	11,774	914	1,737	358
	Total	125,447	8,727	15,738	3,699	37,669	2,801	5,196	1,083
Chronic rheumatic heart diseases (I05-I09)	MEN	378	27	42	10	130	7	9	3
	WOMEN	598	37	74	32	126	10	19	4
	Total	976	64	116	42	256	17	28	7
Hypertensive diseases (I10-I15)	MEN	3,229	135	365	90	1,094	49	138	31
	WOMEN	4,391	199	488	144	594	30	98	23
	Total	7,620	334	853	234	1,688	79	236	54
Coronary heart disease (I20-I25)	MEN	34,479	2,513	4,350	989	15,341	1,184	2,102	425
	WOMEN	18,421	1,416	2,698	582	4,829	424	762	141
	Total	52,900	3,929	7,048	1,571	20,170	1,608	2,864	566
Myocardial infarction (I21-I22)	MEN	12,045	800	2,483	543	5,857	396	1,078	219
	WOMEN	6,692	456	1,657	335	1,943	145	435	87
	Total	18,737	1,256	4,140	878	7,800	541	1,513	306
Other heart diseases (I26-I52)	MEN	12,504	843	1,337	355	3,652	241	478	99
	WOMEN	14,593	978	1,517	447	2,241	158	301	61
	Total	27,097	1,821	2,854	802	5,893	399	779	160
Stroke (cerebrovascular disease; CBVD) (I60-I69)	MEN	12,033	862	1,653	386	3,594	254	496	122
	WOMEN	15,110	993	2,175	459	2,694	179	409	94
	Total	27,143	1,855	3,828	845	6,288	433	905	216
Diseases of arteries, arterioles and capillaries (I70-I79)	MEN	4,007	264	458	78	1,337	91	168	26
	WOMEN	3,251	228	391	84	665	50	83	21
	Total	7,258	492	849	162	2,002	141	251	47
Diseases of veins, lymphatic vessels and lymph nodes* (I80-I89)	MEN	1,104	109	83	22	745	61	67	18
	WOMEN	1,331	122	103	20	625	63	65	14
	Total	2,435	231	186	42	1,370	124	132	32
Malignant neoplasm: Heart (C38.0)	MEN	9	0			6	0		
	WOMEN	7	1			4	1		
	Total	16	1			10	1		
Vascular dementia (F01)	MEN	4,135	291	695	127	290	19	53	9
	WOMEN	6,600	445	1,138	191	201	17	41	7
	Total	10,735	736	1,833	318	491	36	94	16
Transient cerebral ischaemic attacks and related syndromes (G45)	MEN	7	4	1	0	1	0	0	0
	WOMEN	27	2	7	1	0	0	0	0
	Total	34	6	8	1	1	0	0	0
Cardiovascular disorders originating in the perinatal period (P29)	MEN	5	0	0	0	5	0	0	0
	WOMEN	3	0	2	1	3	0	2	1
	Total	8	0	2	1	8	0	2	1
Congenital malformations of the circulatory system # (Q20-Q28)	MEN	200	13	33	9	174	9	30	6
	WOMEN	176	20	25	5	128	17	23	5
	Total	376	33	58	14	302	26	53	11
All cancer (C00-D48)	MEN	74,095	4,874	8,698	2,465	32,653	2,195	4,085	1,157
	WOMEN	64,943	4,197	8,198	2,465	28,454	1,782	3,677	1,007
	Total	139,038	9,071	16,896	4,930	61,107	3,977	7,762	2,164
Lung cancer (C33,C34)	MEN	13,877	907	1,970	522	6,860	456	1,023	273
	WOMEN	12,533	830	1,989	495	5,996	402	984	245
	Total	26,410	1,737	3,959	1,017	12,856	858	2,007	518
Breast cancer (C50)	MEN	65	7	13	8	27	3	6	2
	WOMEN	9,055	537	1,009	308	4,605	252	529	152
	Total	9,120	544	1,022	316	4,632	255	535	154
Respiratory disease (excl COVID-19) (J00-J99)	MEN	26,209	1,855	2,605	755	7,361	494	814	229
	WOMEN	24,792	1,943	2,787	797	5,748	509	821	216
	Total	51,001	3,798	5,392	1,552	13,109	1,003	1,635	445
Lower respiratory disease (J40 - J47)	MEN	12,223	864	1,288	343	4,194	291	500	128
	WOMEN	12,086	970	1,499	401	3,783	342	614	145
	Total	24,309	1,834	2,787	744	7,977	633	1,114	273
[other] Diabetes (E10-E14)	MEN	3,520	228	604	178	1,208	84	260	59
	WOMEN	3,369	225	535	144	740	56	181	53
	Total	6,889	453	1,139	322	1,948	140	441	112
[other] Unspecified dementia/Alzheimer's (F03, G30)	MEN	15,651	918	1,291	481	1,027	65	98	33
	WOMEN	31,319	1,876	2,922	1,083	1,338	84	168	47
	Total	46,970	2,794	4,213	1,564	2,365	149	266	80
[other] COVID-19 (coronavirus) (U07)	MEN	34,750	1,952	2,567	1,040	13,006	688	1,068	337
	WOMEN	28,804	1,698	2,266	809	7,862	476	729	210
	Total	63,554	3,650	4,833	1,849	20,868	1,164	1,797	547

Notes: ICD-10 codes in parentheses. *Not classified elsewhere
This table compiles data from the four countries of the UK. Excludes non-resident mortality (included in Table 1.1 UK totals)
these tables exclude deaths before 28 days, so neonatal deaths from congenital heart anomalies are excluded here

Citation: BHF (2023) Analysis of official UK mortality data

Sources: England and Wales, Office for National Statistics (2022) Deaths registered by cause, sex and age.
www.nomisweb.co.uk/datasets/mortsa
Scotland, National Records of Scotland (2022) Deaths, by sex, age and cause.
www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/general-publications/vital-events-reference-tables/2021
Northern Ireland, Statistics and Research Agency (2022) Deaths by sex, age and cause
www.nisra.gov.uk/publications/registrar-general-annual-report-2021-cause-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 2021

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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
2019	320	208	254	310	200	246	344	223	274	401	275	326	319	204	234
2020	316	210	259	308	203	251	334	228	277	403	274	332	308	207	252
2021	318	209	259	310	202	251	351	230	285	397	274	330	297	201	244

Notes: For 1969 to 2003 ICD-10 codes I00-I99 only. For 2004 onwards 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 underestimate the rate compared to rest of the UK.

Citation: BHF (2023) Analysis of official UK mortality data

Source: England & Wales - BHF analysis of Office for National Statistics (ONS) & Nomis mortality data; personal communication

Scotland - BHF analysis of National Records of Scotland (NRS) mortality data; personal communication

Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data; personal communication

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 2021

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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	56	87	134	64	97	103	47	74
2018	106	47	76	103	46	73	120	56	87	129	60	93	96	45	70
2019	101	46	73	99	44	71	119	53	85	125	61	92	96	45	70
2020	110	48	78	107	46	76	125	59	91	139	64	100	104	46	74
2021	113	50	80	110	47	78	131	61	95	142	67	103	93	45	68

Notes: For 1969 to 2003 ICD-10 codes I00-I99 only. For 2004 onwards 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 underestimate the rate compared to rest of the UK.

Citation: BHF (2023) Analysis of official UK mortality data

Source: England & Wales - BHF analysis of Office for National Statistics (ONS) & Nomis mortality data; personal communication
Scotland - BHF analysis of National Records of Scotland (NRS) mortality data; personal communication
Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data; personal communication

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 2021

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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
2019	146	63	98	142	60	95	163	69	109	183	83	124	148	65	100
2020	144	61	99	140	59	95	154	68	107	182	82	126	143	66	99
2021	148	62	101	144	59	97	170	75	117	184	86	130	134	60	93

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

Citation: BHF (2023) Analysis of official UK mortality data

Source: England & Wales - BHF analysis of Office for National Statistics (ONS) & Nomis mortality data; personal communication
Scotland - BHF analysis of National Records of Scotland (NRS) mortality data; personal communication
Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data; personal communication

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 2021

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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
2019	58	18	38	57	17	36	70	21	45	75	26	50	56	19	37
2020	64	19	41	62	18	39	72	23	47	81	25	52	60	17	38
2021	66	20	42	64	19	41	81	27	53	84	28	55	53	17	35

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

Citation: BHF (2023) Analysis of official UK mortality data

Source: England & Wales - BHF analysis of Office for National Statistics (ONS) & Nomis mortality data; personal communication
 Scotland - BHF analysis of National Records of Scotland (NRS) mortality data; personal communication
 Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data; personal communication

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 2021

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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
2019	57	51	53	56	49	51	60	55	57	73	73	73	60	50	54
2020	55	51	53	53	48	51	58	56	57	78	73	75	56	50	53
2021	55	49	52	52	47	50	61	51	56	75	69	72	56	47	51

Notes: ICD-10 codes I60-I69 stroke - cerebrovascular disease (CBVD). Directly age-standardised using the 2013 European Standard Population.

Citation: BHF (2023) Analysis of official UK mortality data

Source: England & Wales - BHF analysis of Office for National Statistics (ONS) & Nomis mortality data; personal communication
Scotland - BHF analysis of National Records of Scotland (NRS) mortality data; personal communication
Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data; personal communication

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 2021

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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
2019	15	11	13	14	10	12	15	12	14	18	15	16	14	9	11
2020	15	11	13	15	11	13	16	12	14	21	15	18	16	11	14
2021	16	11	13	15	11	13	17	11	14	20	15	17	15	11	13

Notes: ICD-10 codes I60-I69 stroke - cerebrovascular disease (CBVD). Directly age-standardised using the 2013 European Standard Population.

Citation: BHF (2023) Analysis of official UK mortality data

Source: England & Wales - BHF analysis of Office for National Statistics (ONS) & Nomis mortality data; personal communication
Scotland - BHF analysis of National Records of Scotland (NRS) mortality data; personal communication
Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data; personal communication

Table 1.9 Number of deaths from all heart and circulatory diseases, all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2021

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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
2019	84,742	79,146	163,888	69,115	64,182	133,297	4,768	4,346	9,114	8,451	8,504	16,955	2,070	1,943	4,013
2020	87,790	80,529	168,319	71,704	65,448	137,152	4,881	4,459	9,340	8,928	8,520	17,448	2,100	2,002	4,102
2021	88,413	79,617	168,030	72,100	64,516	136,616	5,062	4,441	9,503	9,018	8,621	17,639	2,067	1,966	4,033

Notes:

For 1969 to 2003 ICD-10 codes I00-I99 only. For 2004 onwards ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28.
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 underestimate the rate compared to rest of the UK.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England and Wales pre-2013: Office for National Statistics (ONS) archive and correspondence
2013 onwards: Nomis Mortality Statistics
www.nomisweb.co.uk/datasets/mortsa
Scotland: National Records of Scotland Mortality Statistics
www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events
Northern Ireland, Statistics and Research Agency (NISRA): Registrar General Annual Report; archive
www.nisra.gov.uk/statistics/registrar-general-annual-report/registrar-general-historical-reports
www.nisra.gov.uk/publications/registrar-general-annual-report-2021-cause-death

Table 1.10 Number of deaths from all heart and circulatory diseases, under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2021

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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
2019	29,332	13,919	43,251	23,547	11,036	34,583	1,746	820	2,566	3,063	1,604	4,667	735	359	1,094
2020	31,862	14,765	46,627	25,656	11,717	37,373	1,838	926	2,764	3,446	1,702	5,148	804	375	1,179
2021	32,684	15,272	47,956	26,371	12,110	38,481	1,915	949	2,864	3,542	1,803	5,345	740	371	1,111

Notes:

For 1969 to 2003 ICD-10 codes I00-I99 only. For 2004 onwards ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28.

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 underestimate the rate compared to rest of the UK.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England and Wales pre-2013: Office for National Statistics (ONS) archive and correspondence

2013 onwards: ONS Nomis Mortality Statistics

www.nomisweb.co.uk/datasets/mortsa

Scotland: National Records of Scotland Mortality Statistics

www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events

Northern Ireland, Statistics and Research Agency (NISRA): Registrar General Annual Report; archive

www.nisra.gov.uk/statistics/registrar-general-annual-report/registrar-general-historical-reports

Table 1.11 Number of deaths from coronary heart disease (CHD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2021

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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
2019	39,845	23,392	63,237	32,304	18,837	51,141	2,331	1,317	3,648	4,004	2,556	6,560	1,000	613	1,613
2020	41,117	23,053	64,170	33,512	18,554	52,066	2,310	1,312	3,622	4,202	2,525	6,727	1,010	626	1,636
2021	42,434	23,145	65,579	34,479	18,421	52,900	2,513	1,416	3,929	4,350	2,698	7,048	989	582	1,571

Notes:

ICD-10 codes I20-I25.

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.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England and Wales pre-2013: Office for National Statistics (ONS) archive and correspondence

2013 onwards: ONS Nomis Mortality Statistics

www.nomisweb.co.uk/datasets/mortsa

Scotland: National Records of Scotland Mortality Statistics

www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events

Northern Ireland, Statistics and Research Agency (NISRA): Registrar General Annual Report; archive

www.nisra.gov.uk/statistics/registrar-general-annual-report/registrar-general-historical-reports

Table 1.12 Number of deaths from coronary heart disease (CHD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2021

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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
2019	16,926	5,509	22,435	13,472	4,300	17,772	1,035	332	1,367	1,833	686	2,519	430	151	581
2020	18,335	5,705	24,040	14,757	4,505	19,262	1,056	361	1,417	1,999	678	2,677	461	141	602
2021	19,129	6,156	25,301	15,341	4,829	20,170	1,184	424	1,608	2,102	762	2,864	425	141	566

Notes:

ICD-10 codes I20-I25.

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.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England and Wales pre-2013: Office for National Statistics (ONS) archive and correspondence

2013 onwards: ONS Nomis Mortality Statistics

www.nomisweb.co.uk/datasets/mortsa

Scotland: National Records of Scotland Mortality Statistics

www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events

Northern Ireland, Statistics and Research Agency (NISRA): Registrar General Annual Report; archive

www.nisra.gov.uk/statistics/registrar-general-annual-report/registrar-general-historical-reports

Table 1.13 Number of deaths from stroke (CBVD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2021

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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
2019	14,988	19,432	34,420	12,253	15,561	27,814	815	1,086	1,901	1,490	2,256	3,746	379	479	858
2020	15,095	19,423	34,518	12,184	15,563	27,747	830	1,102	1,932	1,674	2,253	3,927	375	479	854
2021	14,959	18,755	33,714	12,033	15,110	27,143	862	993	1,855	1,653	2,175	3,828	386	459	845

Notes:

ICD-10 codes I60-I69 - stroke - 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.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England and Wales pre-2013: Office for National Statistics (ONS) archive and correspondence

2013 onwards: ONS Nomis Mortality Statistics

www.nomisweb.co.uk/datasets/mortsa

Scotland: National Records of Scotland Mortality Statistics

www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events

Northern Ireland, Statistics and Research Agency (NISRA): Registrar General Annual Report; archive

www.nisra.gov.uk/statistics/registrar-general-annual-report/registrar-general-historical-reports

Table 1.14 Number of deaths from stroke (CBVD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1961 to 2021

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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
2019	4,196	3,252	7,448	3,407	2,573	5,980	226	193	419	436	385	821	103	75	178
2020	4,417	3,392	7,809	3,508	2,694	6,202	241	189	430	522	402	924	121	93	214
2021	4,481	3,386	7,867	3,594	2,694	6,288	254	179	433	496	409	905	122	94	216

Notes:

ICD-10 codes I60-I69 - stroke - 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.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England and Wales pre-2013: Office for National Statistics (ONS) archive and correspondence

2013 onwards: ONS Nomis Mortality Statistics

www.nomisweb.co.uk/datasets/mortsa

Scotland: National Records of Scotland Mortality Statistics

www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events

Northern Ireland, Statistics and Research Agency (NISRA): Registrar General Annual Report; archive

www.nisra.gov.uk/statistics/registrar-general-annual-report/registrar-general-historical-reports

www.nisra.gov.uk/publications/registrar-general-annual-report-2021-cause-death

Table 1.15 Excess winter mortality for CVD by sex and age, England 2011/2012 to 2021/22

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		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20 including COVID-19		2019/20 - excluding COVID-19		2020/21 - including COVID-19		2020/21 - excluding COVID-19		2021/22 - including COVID-19 (P*)		2021/22 excluding COVID-19 (P*)	
Cardiovascular disease		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	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
Persons	0-74	1,240	11.6	1,550	14.4	680	6.4	1,690	15.8	1,500	13.9	1,320	12.2	2,600	24.3	1,260	11.8	1,300	11.5	1,390	12.5	1,050	8.9	550	4.7	900	7.2	800	6.4
	75-79	780	14.7	810	15.2	510	10.1	1,080	21.3	690	14.2	830	17.6	1,340	29.4	550	12	730	15.2	790	16.7	440	8.8	190	3.8	500	9	500	8.3
	80-84	1,170	15.1	1,500	19.6	830	11.6	1,520	21.1	780	11.1	1,240	18.5	1,800	27.5	870	13.4	880	13.7	960	15.2	540	8.5	190	2.9	600	8.9	500	7.8
	85-89	1,710	19.7	1,830	21.1	1,150	14	2,290	27.7	1,020	12.4	1,590	20	2,090	26.9	960	12.7	1,210	16	1,300	17.5	810	11.1	420	5.8	500	5.9	300	4.3
	90+	1,800	20	2,020	21.1	1,150	12.6	2,800	30.1	1,310	14.2	2,210	24.8	2,720	30.9	1,330	15.4	1,090	11.8	1,190	13	1,150	12.9	680	7.7	700	7.1	600	6.3
	All ages	6,710	16.2	7,710	18.4	4,320	10.8	9,380	23.1	5,300	13.2	7,190	18.3	10,540	27.5	4,970	13.1	5,210	13.3	5,620	14.5	4,000	10.1	2,020	5.2	3,200	7.4	2,700	6.4
Male	0-74	820	11.2	1,010	13.8	320	4.3	1,050	14.3	1,040	14.2	900	12.2	1,790	24.3	870	12	880	11.4	940	12.4	710	8.7	350	4.3	800	9.9	700	8.9
	75-79	490	16.4	580	19.4	230	7.8	580	19.4	430	14.8	500	17.9	660	24.5	330	12.1	410	14.4	450	16.2	280	9.4	130	4.2	300	8	200	7.2
	80-84	500	12.8	630	16	420	11.1	770	20.4	290	7.7	710	20.3	1,030	29.4	510	14.7	460	13.3	500	14.8	310	9	110	3.3	400	9.8	300	8.6
	85-89	690	18.9	780	21	560	15.8	910	24.6	550	15.1	690	18.9	1,090	30.7	430	12.2	620	17.4	660	19	290	8.2	110	3.2	300	7.9	200	5.8
	90+	610	23	580	19.8	400	14.1	880	29.9	510	17.1	740	25.1	970	32.1	500	16.7	500	15.5	530	16.7	380	12.3	210	6.9	300	7.6	200	6.5
	All ages	3,110	15.2	3,580	17.1	1,920	9.4	4,180	20.2	2,820	13.7	3,540	17.4	5,530	27.5	2,650	13.2	2,870	13.8	3,100	15.1	1,980	9.3	910	4.3	2,000	8.9	1,700	7.7
Female	0-74	430	12.5	540	15.5	360	11	650	19.1	450	13.1	420	12.1	810	24.2	390	11.5	420	11.8	450	12.6	340	9.3	200	5.5	100	1.4	-	0.8
	75-79	290	12.5	220	9.8	280	13.5	500	24.1	260	13.2	340	17.2	680	36.4	210	11.8	320	16.2	330	17.4	160	7.8	60	3.1	200	10.6	200	9.8
	80-84	680	17.4	870	23.4	420	12.1	750	21.7	490	15.1	530	16.5	770	25.2	360	12	420	14.1	460	15.5	230	7.9	70	2.5	200	7.8	200	6.9
	85-89	1,020	20.3	1,050	21.2	590	12.6	1,380	30.2	480	10.4	900	20.9	1,000	23.7	530	13.2	590	14.8	640	16.1	520	13.8	300	8.1	200	4.1	100	2.9
	90+	1,190	18.8	1,450	21.7	750	12	1,920	30.2	800	12.8	1,460	24.6	1,750	30.2	830	14.7	590	9.9	660	11.1	760	13.3	470	8.1	400	6.8	400	6.1
	All ages	3,590	17.2	4,130	19.6	2,400	12.1	5,200	26.2	2,480	12.7	3,650	19.3	5,010	27.4	2,320	13	2,340	12.7	2,530	13.8	2,020	11.1	1,110	6.2	1,100	5.7	900	4.9

Notes: Excess winter mortality calculation: winter deaths-average non-winter deaths.
Excess winter mortality index calculation: (excess winter mortality / average non-winter deaths)*100
(P) figures for 2021/22 are preliminary ICD-10 codes for CVD I00-I99
* Excess winter deaths (EWD) figures for the latest winter are rounded to the nearest 100, figures for all other winters are final and are rounded to the nearest 10. As a result, some totals for persons and all ages will not always be equal to the sum of their parts.
Figures excluding COVID-19 have been calculated using all cause deaths that did not have COVID-19 mentioned on the death certificate. Alternatively, figures including COVID-19 have been calculated using deaths from all causes including those that had COVID-19 mentioned on the death certificate.

Citation: BHF (2023) Analysis of ONS excess winter mortality data

Source: Office for National Statistics (2023) www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/bulletins/excesswintermortalityinenglandandwales/previousReleases

Table 1.16 Excess winter mortality for CVD and CHD by sex and age, Wales 2011/2012 to 2021/22

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		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20 - including COVID-19		2019/20 - excluding COVID-19		2020/21 - including COVID-19		2020/21 - excluding COVID-19		2021/22 - including COVID-19 (P*)		2021/22 - excluding COVID-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	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	Persons	0-74	70	9.3	150	18.7	120	15.9	200	26.7	170	22.1	100	12.1	180	22.1	60	7	110	13.7	120	14.6	60	6.2	30	3.1	100	8.1	100	8.9
		75-79	30	7.6	40	9.6	40	9.3	90	24.9	40	10.8	50	14.9	110	32.4	30	8.4	70	21.3	80	22.4	20	4.4	10	1.3	0	N/A	0	N/A
		80-84	90	17.5	120	20.7	60	13.2	110	23	100	22.6	40	8.9	150	34.1	30	7	110	24.9	120	27.4	70	16.4	40	10	0	N/A	0	N/A
		85-89	90	15.2	160	26.4	70	11.4	90	14.8	50	9.4	90	18.5	140	26.8	20	3.9	60	11.5	70	13.7	90	17.8	60	13.6	0	N/A	0	N/A
		90+	150	25.7	120	18.8	80	14	100	15.6	140	24.2	60	10.1	210	38.6	30	6.2	60	11.3	70	12.3	70	12.6	30	6.3	100	15.4	100	14.5
		All ages	440	15.1	580	19.5	370	13.2	600	20.9	510	18.6	340	12.7	780	29.7	170	6.4	420	15.6	450	17.1	300	10.9	170	6.4	200	7	200	7.3
Male		0-74	60	11.2	90	16.5	70	13.2	140	27	90	17.5	60	10.3	120	21.5	60	10.8	60	11	70	11.7	50	8.6	30	5.4	100	14.4	100	14.8
		75-79	10	3.9	40	18.8	30	12.8	60	28.9	40	17	30	13.2	80	40.6	40	22.1	60	29.2	60	30.3	10	3.5	0	N/A	0	N/A	0	N/A
		80-84	20	6.5	60	20.1	10	3.8	50	19.7	40	19.4	20	8.6	80	32.8	10	2.7	80	32.4	80	35.2	30	13.3	10	5.4	0	N/A	0	N/A
		85-89	40	14.3	80	31.3	40	16.1	40	15.3	10	3.1	100	48.5	80	31.4	20	6.8	50	19.4	50	21.1	20	9.5	10	3.2	0	N/A	0	N/A
		90+	60	37.2	50	26.5	20	12.7	30	18.4	40	24.4	20	9.2	80	51.6	10	2.7	30	14.8	30	15.2	30	15.6	20	8.8	0	23.4	0	21.6
		All ages	180	12.5	320	21.4	170	11.9	330	22.8	230	16.1	220	15.8	440	31.3	130	9.1	270	19	290	20.2	140	9.7	70	4.8	200	11.1	200	11.5
Female		0-74	20	5.6	60	23.4	50	21.6	70	26	80	31.5	40	16.1	60	23.6	0	N/A	50	19.4	50	20.5	0	N/A	0	N/A	0	N/A	0	N/A
		75-79	20	13	0	N/A	10	4.5	30	18.9	0	N/A	20	17.4	30	20.4	-10	N/A	20	11.7	20	12.8	10	5.5	0	N/A	0	N/A	0	N/A
		80-84	70	30.3	60	21.5	50	24.5	60	26.3	60	25.8	20	9.3	70	35.7	30	12.3	30	16	40	18.1	40	20.4	30	15.9	0	N/A	0	N/A
		85-89	50	16	80	22.9	30	7.8	50	14.3	40	14.4	-10	N/A	60	22.6	0	N/A	10	4.2	20	6.8	60	25.7	60	23.6	0	N/A	0	N/A
		90+	90	21.5	70	15.7	60	14.5	70	14.4	100	24.1	40	10.5	120	33.2	30	8.1	30	9.5	40	10.9	40	11.1	20	5	0	N/A	0	N/A
		All ages	260	17.8	270	17.6	200	14.5	270	19	280	21.1	120	9.2	340	27.9	40	3.4	150	11.8	170	13.5	160	12.4	110	8.4	0	N/A	0	N/A

Notes: Excess winter mortality calculation: winter deaths-average non-winter deaths.
Excess winter mortality index calculation: (excess winter mortality / average non-winter deaths)*100
(P) figures for 2021/22 are preliminary ICD-10 codes for CVD I00-I99
* Excess winter deaths (EWD) figures for the latest winter are rounded to the nearest 100, figures for all other winters are final and are rounded to the nearest 10. As a result, some totals for persons and all ages will not always be equal to the sum of their parts.
Figures excluding COVID-19 have been calculated using all cause deaths that did not have COVID-19 mentioned on the death certificate. Alternatively, figures including COVID-19 have been calculated using deaths from all causes including those that had COVID-19 mentioned on the death certificate.

Citation: BHF (2023) Analysis of ONS excess winter mortality data

Source: Office for National Statistics (2023) www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/bulletins/excesswintermortalityinenglandandwales/previousReleases

Table 1.17 Excess winter mortality for CVD and CHD by sex and age, Scotland 2009/2010 to 2021/22

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		2009/10		2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20		2020/21		2021/22 (P)	
Cardiovascular disease		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	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Persons	0-64	140	20	60	8	40	6	-10	.	30	5	40	6	120	18	140	22	60	9	80	13	30	5	90	12	110	15
	65-74	190	22	130	15	30	4	40	5	60	8	150	18	160	19	90	10	140	15	80	10	140	17	80	9	80	8
	75-84	370	21	340	20	190	12	180	11	160	10	390	25	230	16	240	16	400	27	200	14	100	6	160	11	120	7
	85+	330	18	270	14	80	4	280	15	250	14	540	29	260	14	360	20	490	28	240	14	280	15	290	16	180	10
	All ages	1,030	20	800	15	350	7	490	9	510	11	1,120	23	760	16	820	17	1,090	23	600	13	550	11	610	13	490	9

		2009/10		2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20		2020/21		2021/22 (P)	
Coronary heart disease		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	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Persons	0-64	90	22	30	7	40	9	0	1	20	6	20	5	60	16	80	22	20	4	30	9	10	3	50	13	50	13
	65-74	130	25	40	8	40	7	30	6	60	14	90	19	70	16	40	9	40	8	40	9	70	16	30	7	50	10
	75-84	190	22	150	18	90	11	60	8	90	12	190	26	90	14	90	12	190	29	110	17	50	7	80	13	30	4
	85+	140	18	50	6	20	3	90	12	60	8	170	23	120	17	130	21	160	26	120	19	90	14	50	7	30	4
	All ages	550	22	270	11	180	7	190	8	220	10	460	21	340	16	330	16	410	19	300	15	220	10	220	10	150	7

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. [P] provisional figures; revisions are very likely
ICD-10 codes for CVD I00-I99; CHD I20-I25.

Citation: BHF (2023) Analysis of NRS excess winter mortality data
Source: National Records of Scotland, personal communication (2022)

Table 1.18 Excess winter mortality for CVD by sex and age, Northern Ireland 2011/12 to 2021/22

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		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20		2020/21		2021/22	
		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	Excess winter mortality	Excess winter mortality index
Cardiovascular disease	Persons																						
	0-64	-9	-5.2	25	16.2	14	8.4	24	15.5	4	2.2	20	12.7	33	20.9	-7	-4.1	14	8.1	29	16.0	15	10.5
	65-74	15	7.8	20	9.9	9	4.9	41	22.2	50	26.5	63	35.0	49	26.3	12	6.4	29	16.6	-8	-3.8	6	3.0
	75-84	42	10.3	97	24.6	82	22.8	80	21.9	0	0.0	65	19.0	127	37.7	16	4.3	61	17.3	12	3.3	22	6.4
	85+	83	16.4	112	21.9	79	16.9	102	21.0	81	17.4	112	23.8	181	38.9	39	8.5	72	14.6	16	3.1	68	13.6
	All ages	132	10.4	254	20.1	184	15.7	247	20.7	134	11.4	259	22.6	389	34.1	60	5.1	176	14.8	49	3.9	110	9.4
Men	0-64	3	2.6	22	19.8	2	1.2	2	1.8	3	2.3	15	13.2	30	27.7	-4	-3.1	3	2.0	23	18.4	21	21.9
	65-74	5	3.8	12	8.7	0	0.0	30	25.6	13	10.2	37	31.1	37	31.9	27	23.1	21	18.8	6	4.2	7	6.1
	75-84	22	10.5	70	35.7	29	14.6	58	30.7	21	10.9	26	14.3	61	29.9	7	3.2	43	23.4	5	2.2	27	14.3
	85+	7	3.7	73	45.9	49	30.6	22	12.6	37	22.0	57	34.6	52	28.1	24	13.7	40	21.9	1	0.2	27	13.2
	All ages	36	5.8	176	29.5	79	13.3	112	18.9	73	12.3	134	23.3	179	29.3	54	8.9	106	17.7	33	5.0	81	13.6
Women	0-64	-12	-23.7	3	7.0	13	27.5	22	52.4	1	2.0	5	11.4	3	6.1	-3	-6.3	12	23.2	6	10.7	-6	-11.1
	65-74	10	16.4	9	12.2	9	14.1	11	16.2	37	62.4	26	42.9	12	17.1	-15	-22.7	8	12.7	-13	-19.7	-2	-2.1
	75-84	21	10.0	27	13.6	54	32.7	23	12.6	-21	-11.6	39	24.2	66	49.6	9	5.6	18	10.7	8	4.7	-5	-2.8
	85+	77	23.1	39	11.0	30	9.7	80	25.7	44	14.8	56	18.1	129	46.1	15	5.3	32	10.4	15	5.1	41	13.9
	All ages	96	14.8	78	11.7	105	18.1	135	22.6	61	10.5	125	21.9	210	39.5	6	1.1	70	11.8	16	2.7	30	5.1

Notes:

Excess winter mortality (EWM) 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 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.

Please note: the Northern Ireland Statistics Research Agency (NISRA), from whom this data is sourced, revised their mortality figures as a result of their suicide review.

This accounts for small differences between this edition of the compendium and previous versions.

Citation:

BHF (2023) Analysis of NISRA excess winter mortality data

Source:

Northern Ireland Statistics Research Agency, personal communication; BHF analysis (2023)

Table 1.19 Number of deaths and age-standardised death rates for all heart and circulatory diseases, all ages by region and nation, United Kingdom 2019/21

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	ALL AGES								
	Age-standardised heart and circulatory disease death rates per 100,000 - Annual Average (3-Year)			Total number of heart and circulatory disease deaths 2019/21			Average number of annual heart and circulatory disease deaths for 2019/21		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	325.4	218.3	268.5	19,982	18,347	38,329	6,661	6,116	12,776
East of England	284.4	183.0	229.8	23,588	21,490	45,078	7,863	7,163	15,026
London	288.7	185.9	233.7	21,853	19,120	40,973	7,284	6,373	13,658
North East	327.6	212.2	265.2	11,213	9,921	21,134	3,738	3,307	7,045
North West	346.5	223.5	280.5	31,276	27,422	58,698	10,425	9,141	19,566
South East	281.2	184.6	229.4	33,976	32,487	66,463	11,325	10,829	22,154
South West	294.6	194.2	240.4	24,439	23,262	47,701	8,146	7,754	15,900
West Midlands	329.4	214.4	267.9	24,194	21,880	46,074	8,065	7,293	15,358
Yorkshire and the Humber	333.8	216.4	270.4	22,398	20,217	42,615	7,466	6,739	14,205
England	309.2	201.6	249.4	212,919	194,146	407,065	70,973	64,715	135,688
Wales	343.0	226.6	278.8	14,711	13,246	27,957	4,904	4,415	9,319
Scotland	400.4	274.3	329.4	26,397	25,645	52,042	8,799	8,548	17,347
Northern Ireland	307.9	204.2	243.2	6,237	5,911	12,148	2,079	1,970	4,049
UK	318.1	209.0	257.4	260,945	239,292	500,237	86,982	79,764	166,746

Notes:

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

Figures for England and Wales exclude non-resident mortality, but these deaths are included in the UK totals.

Non-resident mortality has not been included when calculating the UK age-standardised death rate.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England & Wales - BHF analysis of Office for National Statistics (ONS) Nomis mortality data

Scotland - BHF analysis of National Records of Scotland (NRS) mortality data

Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data

Table 1.20 Number of deaths and age-standardised death rates for all heart and circulatory diseases, under 75, by region and nation, United Kingdom 2019/21

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	UNDER 75								
	Age-standardised heart and circulatory disease premature death rates per 100,000 - Annual Average (3-Year)			Total number of premature heart and circulatory disease deaths 2019/21			Average number of annual premature heart and circulatory disease deaths for 2019/21		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	108.4	49.2	78.4	7,120	3,381	10,501	2,373	1,127	3,500
East of England	91.4	39.0	64.6	7,603	3,463	11,066	2,534	1,154	3,689
London	104.8	43.2	73.3	9,058	3,976	13,034	3,019	1,325	4,345
North East	117.5	54.0	85.1	4,326	2,127	6,453	1,442	709	2,151
North West	127.7	57.3	92.0	12,329	5,807	18,136	4,110	1,936	6,045
South East	87.4	37.2	61.7	10,570	4,802	15,372	3,523	1,601	5,124
South West	90.8	38.8	64.2	7,345	3,363	10,708	2,448	1,121	3,569
West Midlands	116.3	50.7	82.9	8,765	4,001	12,766	2,922	1,334	4,255
Yorkshire and the Humber	117.3	52.1	84.2	8,444	3,937	12,381	2,815	1,312	4,127
England	104.5	45.8	74.6	75,560	34,857	110,417	25,187	11,619	36,806
Wales	123.8	57.7	90.4	5,498	2,694	8,192	1,833	898	2,731
Scotland	133.8	63.9	98.3	10,051	5,109	15,160	3,350	1,703	5,053
Northern Ireland	97.6	45.2	70.9	2,279	1,105	3,384	760	368	1,128
UK	107.6	47.9	77.4	93,420	43,777	137,834	31,140	14,592	45,732

Notes:

ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28. Directly age-standardised using the 2013 European Standard Population.
Figures for England and Wales exclude non-resident mortality, but these deaths are included in the UK totals.
Non-resident mortality has not been included when calculating the UK age-standardised death rate.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England & Wales - BHF analysis of Office for National Statistics (ONS) Nomis mortality data
Scotland - BHF analysis of National Records of Scotland (NRS) mortality data
Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data

Table 1.21 Number of deaths and age-standardised death rates for coronary heart disease (CHD), all ages, by region and nation, United Kingdom 2019/21

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	ALL AGES								
	Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2019/21			Average number of annual CHD deaths for 2019/21		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	150.4	63.1	102.7	9,556	5,225	14,781	3,185	1,742	4,927
East of England	126.1	51.6	85.0	10,642	5,924	16,566	3,547	1,975	5,522
London	134.9	54.2	90.3	10,421	5,456	15,877	3,474	1,819	5,292
North East	156.2	68.9	108.0	5,527	3,189	8,716	1,842	1,063	2,905
North West	164.9	70.6	113.3	15,407	8,519	23,926	5,136	2,840	7,975
South East	119.1	47.9	79.7	14,614	8,210	22,824	4,871	2,737	7,608
South West	130.7	52.9	87.7	11,022	6,181	17,203	3,674	2,060	5,734
West Midlands	155.3	64.7	105.7	11,746	6,442	18,188	3,915	2,147	6,063
Yorkshire and the Humber	164.5	72.4	113.7	11,360	6,666	18,026	3,787	2,222	6,009
England	142.5	59.2	95.8	100,295	55,812	156,107	33,432	18,604	52,036
Wales	163.7	70.5	111.3	7,154	4,045	11,199	2,385	1,348	3,733
Scotland	182.4	83.8	126.6	12,556	7,779	20,335	4,185	2,593	6,778
Northern Ireland	142.1	63.4	97.4	2,999	1,821	4,820	1,000	607	1,607
UK	146.8	62.0	99.1	123,396	69,590	192,986	41,132	23,197	64,329

Notes:

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

Figures for England and Wales exclude non-resident mortality, but these deaths are included in the UK totals.

Non-resident mortality has not been included when calculating the UK age-standardised death rate.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England & Wales - BHF analysis of Office for National Statistics (ONS) Nomis mortality data

Scotland - BHF analysis of National Records of Scotland (NRS) mortality data

Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data

Table 1.22 Number of deaths and age-standardised death rates for coronary heart disease (CHD), under 75, by region and nation, United Kingdom 2019/21

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	UNDER 75								
	Age-standardised CHD premature death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths 2019/21			Average number of annual premature CHD deaths for 2019/21		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	63.7	18.9	41.0	4,190	1,303	5,493	1,397	434	1,831
East of England	50.3	14.5	32.0	4,184	1,286	5,470	1,395	429	1,823
London	58.2	15.6	36.3	4,958	1,396	6,354	1,653	465	2,118
North East	69.4	23.8	46.1	2,563	943	3,506	854	314	1,169
North West	77.2	24.4	50.4	7,458	2,475	9,933	2,486	825	3,311
South East	47.3	12.9	29.6	5,714	1,663	7,377	1,905	554	2,459
South West	51.9	13.7	32.3	4,209	1,198	5,407	1,403	399	1,802
West Midlands	69.8	21.4	45.2	5,254	1,691	6,945	1,751	564	2,315
Yorkshire and the Humber	70.0	22.2	45.7	5,040	1,679	6,719	1,680	560	2,240
England	60.7	17.9	38.7	43,570	13,634	57,204	14,523	4,545	19,068
Wales	74.5	23.8	48.4	3,275	1,117	4,392	1,092	372	1,464
Scotland	79.8	26.5	52.1	5,934	2,126	8,060	1,978	709	2,687
Northern Ireland	56.5	17.7	36.6	1,316	433	1,749	439	144	583
UK	62.7	19.0	40.3	54,390	17,386	71,776	18,130	5,795	23,925

Notes:

Citation:

Source:

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

Figures for England and Wales exclude non-resident mortality, but these deaths are included in the UK totals.

Non-resident mortality has not been included when calculating the UK age-standardised death rate.

BHF (2023) Analysis of official UK mortality data

England & Wales - BHF analysis of Office for National Statistics (ONS) Nomis mortality data

Scotland - BHF analysis of National Records of Scotland (NRS) mortality data

Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data

Table 1.23 Number of deaths and age-standardised death rates for stroke (CBVD), all ages, by region and nation, United Kingdom 2019/21

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	ALL AGES								
	Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2019/21			Average number of annual stroke (CBVD) deaths for 2019/21		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	54.6	48.4	51.5	3,282	4,060	7,342	1,094	1,353	2,447
East of England	50.1	42.8	46.3	4,109	5,017	9,126	1,370	1,672	3,042
London	49.7	41.2	45.4	3,709	4,223	7,932	1,236	1,408	2,644
North East	62.7	53.7	58.2	2,090	2,527	4,617	697	842	1,539
North West	59.6	52.3	56.1	5,276	6,427	11,703	1,759	2,142	3,901
South East	49.6	44.7	47.3	5,945	7,834	13,779	1,982	2,611	4,593
South West	52.2	50.5	51.8	4,290	6,063	10,353	1,430	2,021	3,451
West Midlands	53.6	49.6	51.9	3,885	5,062	8,947	1,295	1,687	2,982
Yorkshire and the Humber	59.4	53.5	56.6	3,884	5,021	8,905	1,295	1,674	2,968
England	54.6	48.0	50.6	36,470	46,234	82,704	12,157	15,411	27,568
Wales	61.3	54.1	56.7	2,507	3,181	5,688	836	1,060	1,896
Scotland	76.5	71.4	73.4	4,817	6,684	11,501	1,606	2,228	3,834
Northern Ireland	59.2	49.0	52.6	1,140	1,417	2,557	380	472	852
UK	56.8	50.3	52.8	45,042	57,610	102,652	15,014	19,203	34,217

Notes:

ICD-10 codes I60-I69 - stroke - cerebrovascular disease (CBVD). Directly standardised using the 2013 European Standard Population.

Figures for England and Wales exclude non-resident mortality, but these deaths are included in the UK totals.

Non-resident mortality has not been included when calculating the UK age-standardised death rate.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England & Wales - BHF analysis of Office for National Statistics (ONS) Nomis mortality data

Scotland - BHF analysis of National Records of Scotland (NRS) mortality data

Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data

Table 1.24 Number of deaths and age-standardised death rates for stroke (CBVD), under 75, by region and nation, United Kingdom 2019/21

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	UNDER 75								
	Age-standardised premature stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of premature stroke (CBVD) deaths 2019/21			Average number of annual premature stroke (CBVD) deaths for 2019/21		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	14.0	11.0	12.5	916	754	1,670	305	251	557
East of England	12.7	8.7	10.7	1,060	773	1,833	353	258	611
London	16.1	10.1	13.1	1,379	937	2,316	460	312	772
North East	17.5	12.0	14.7	643	474	1,117	214	158	372
North West	18.1	12.7	15.4	1,742	1,291	3,033	581	430	1,011
South East	12.2	8.9	10.5	1,476	1,154	2,630	492	385	877
South West	12.0	9.4	10.7	980	815	1,795	327	272	598
West Midlands	15.3	11.2	13.2	1,153	880	2,033	384	293	678
Yorkshire and the Humber	16.1	11.7	13.9	1,160	883	2,043	387	294	681
England	14.6	10.4	12.5	10,509	7,961	18,470	3,503	2,654	6,157
Wales	16.4	12.0	14.1	721	561	1,282	240	187	427
Scotland	19.6	14.9	17.2	1,454	1,196	2,650	485	399	883
Northern Ireland	15.0	10.8	12.8	346	262	608	115	87	203
UK	15.1	10.9	13.0	13,094	10,030	23,124	4,365	3,343	7,708

Notes:

ICD-10 codes I60-I69 - stroke - cerebrovascular disease (CBVD). Directly standardised using the 2013 European Standard Population.

Figures for England and Wales exclude non-resident mortality, but these deaths are included in the UK totals.

Non-resident mortality has not been included when calculating the UK age-standardised death rate.

Citation:

BHF (2023) Analysis of official UK mortality data

Source:

England & Wales - BHF analysis of Office for National Statistics (ONS) Nomis mortality data

Scotland - BHF analysis of National Records of Scotland (NRS) mortality data

Northern Ireland - BHF analysis of Northern Ireland, Statistics and Research Agency (NISRA) mortality data

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2019/21

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LA CodeLA/DC/UACeremonial County (Eng/Wal)Region/Nation4N					ALL AGES											
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2019/21			Average number of annual CVD deaths 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E06000055	Bedford	Bedfordshire	East of England	ENG	248.3	168.2	206.0	538	501	1,039	179	167	346	209	274	152
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	246.8	154.2	197.0	867	680	1,547	289	227	516	237	302	247
E06000032	Luton	Bedfordshire	East of England	ENG	297.9	205.0	249.5	599	522	1,121	200	174	374	59	102	51
E06000036	Bracknell Forest	Berkshire	South East	ENG	247.1	123.9	177.8	312	205	517	104	68	172	280	345	265
E06000038	Reading	Berkshire	South East	ENG	274.2	188.0	230.2	424	368	792	141	123	264	115	170	132
E06000039	Slough	Berkshire	South East	ENG	325.7	202.9	258.3	370	283	653	123	94	218	40	73	74
E06000037	West Berkshire	Berkshire	South East	ENG	239.7	143.0	186.9	494	391	885	165	130	295	262	327	272
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	227.3	141.6	180.0	463	410	873	154	137	291	276	341	285
E06000041	Wokingham	Berkshire	South East	ENG	214.7	128.9	166.8	455	374	829	152	125	276	290	355	295
E06000023	Bristol, City of	Bristol	South West	ENG	270.9	169.4	216.5	1,154	998	2,152	385	333	717	171	232	77
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	236.8	148.1	187.7	1,674	1,518	3,192	558	506	1,064	260	325	268
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	250.7	162.8	201.0	610	555	1,165	203	185	388	228	293	165
E07000008	Cambridge	Cambridgeshire	East of England	ENG	225.8	162.7	191.9	274	278	552	91	93	184	249	314	198
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	257.9	159.0	199.5	307	267	574	102	89	191	231	296	250
E07000010	Fenland	Cambridgeshire	East of England	ENG	319.0	198.0	251.6	491	421	912	164	140	304	51	92	50
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	255.3	166.2	206.1	605	522	1,127	202	174	376	208	273	236
E06000031	Peterborough	Cambridgeshire	East of England	ENG	308.6	201.8	250.1	646	565	1,211	215	188	404	57	99	52
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	232.0	148.3	186.2	502	450	952	167	150	317	265	330	283
E06000049	Cheshire East	Cheshire	North West	ENG	270.2	165.6	213.0	1,615	1,363	2,978	538	454	993	181	243	217
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	275.4	177.9	222.8	1,375	1,193	2,568	458	398	856	144	204	170
E06000006	Halton	Cheshire	North West	ENG	314.2	185.3	243.9	477	350	827	159	117	276	77	124	41
E06000007	Warrington	Cheshire	North West	ENG	300.2	175.8	230.4	782	608	1,390	261	203	463	113	168	163
E06000052	Cornwall	Cornwall	South West	ENG	299.7	193.8	241.7	2,728	2,445	5,173	909	815	1,724	85	134	79
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232
E06000047	County Durham	County Durham	North East	ENG	311.9	208.8	256.8	2,212	1,911	4,123	737	637	1,374	42	79	68
E06000005	Darlington	County Durham	North East	ENG	278.9	198.3	235.0	407	393	800	136	131	267	102	155	100
E06000001	Hartlepool	County Durham	North East	ENG	327.0	180.5	244.7	389	292	681	130	97	227	73	120	27
E06000004	Stockton-on-Tees	County Durham	North East	ENG	300.1	191.1	239.8	728	603	1,331	243	201	444	91	140	112
E06000063	Cumberland	Cumbria	North West	ENG	319.8	194.9	251.4	1,318	1,089	2,407	439	363	802	52	93	103
E06000064	Westmorland and Furness	Cumbria	North West	ENG	283.8	186.9	230.2	1,051	961	2,012	350	320	671	114	169	160
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	308.9	183.3	239.8	555	454	1,009	185	151	336	92	141	158
E07000033	Bolsover	Derbyshire	East Midlands	ENG	325.1	230.9	273.6	330	317	647	110	106	216	21	48	57
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	320.6	196.0	250.9	458	400	858	153	133	286	53	94	81
E06000015	Derby	Derbyshire	East Midlands	ENG	334.9	206.2	264.1	979	857	1,836	326	286	612	32	62	84
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	290.3	162.3	218.3	358	288	646	119	96	215	161	222	248
E07000036	Erewash	Derbyshire	East Midlands	ENG	309.1	195.5	245.6	485	424	909	162	141	303	72	117	159
E07000037	High Peak	Derbyshire	East Midlands	ENG	274.9	180.1	223.0	345	300	645	115	100	215	143	203	193
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	283.3	191.2	234.0	464	385	849	155	128	283	106	160	166
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	299.5	176.0	230.9	373	294	667	124	98	222	112	167	215
E07000040	East Devon	Devon	South West	ENG	232.7	146.1	184.4	701	662	1,363	234	221	454	268	333	226
E07000041	Exeter	Devon	South West	ENG	286.0	152.3	209.4	398	355	753	133	118	251	195	260	182
E07000042	Mid Devon	Devon	South West	ENG	250.9	169.8	206.8	322	303	625	107	101	208	205	270	155
E07000043	North Devon	Devon	South West	ENG	290.1	172.1	224.0	477	395	872	159	132	291	136	195	117
E06000026	Plymouth	Devon	South West	ENG	291.8	202.7	243.4	959	899	1,858	320	300	619	78	125	71
E07000044	South Hams	Devon	South West	ENG	229.0	150.5	186.6	364	325	689	121	108	230	263	328	206
E07000045	Teignbridge	Devon	South West	ENG	272.7	176.2	219.5	632	608	1,240	211	203	413	157	218	175
E06000027	Torbay	Devon	South West	ENG	283.3	181.5	228.2	694	625	1,319	231	208	440	121	176	48
E07000046	Torridge	Devon	South West	ENG	312.4	217.6	260.2	372	356	728	124	119	243	36	68	66
E07000047	West Devon	Devon	South West	ENG	269.8	174.4	219.1	277	250	527	92	83	176	159	220	130
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	271.9	181.4	222.3	1,639	1,599	3,238	546	533	1,079	146	206	156
E06000059	Dorset	Dorset	South West	ENG	252.7	161.4	202.3	1,884	1,685	3,569	628	562	1,190	225	290	187
E06000043	Brighton and Hove	East Sussex	South East	ENG	275.9	180.0	225.1	785	713	1,498	262	238	499	131	188	131
E07000061	Eastbourne	East Sussex	South East	ENG	263.9	176.7	215.6	472	504	976	157	168	325	175	236	104
E07000062	Hastings	East Sussex	South East	ENG	386.9	304.0	345.4	475	549	1,024	158	183	341	1	1	14
E07000063	Lewes	East Sussex	South East	ENG	262.0	157.5	205.2	470	452	922	157	151	307	211	276	184
E07000064	Rother	East Sussex	South East	ENG	308.7	217.4	259.1	631	706	1,337	210	235	446	39	71	126
E07000065	Wealden	East Sussex	South East	ENG	261.2	168.7	210.2	729	694	1,423	243	231	474	192	257	238
E07000066	Basildon	Essex	East of England	ENG	293.0	172.4	223.8	612	520	1,132	204	173	377	138	197	106
E07000067	Braintree	Essex	East of England	ENG	263.8	167.9	212.7	543	480	1,023	181	160	341	182	245	194

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2019/21

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LA CodeLA/DC/UACeremonial County (Eng/Wal)Region/Nation4N					ALL AGES											
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2019/21			Average number of annual CVD deaths 2019/21			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N					
E07000068	Brentwood	Essex	East of England	ENG	239.5	137.0	183.7	267	231	498	89	77	166	270	335	269
E07000069	Castle Point	Essex	East of England	ENG	288.6	159.3	215.6	405	308	713	135	103	238	173	234	172
E07000070	Chelmsford	Essex	East of England	ENG	247.5	148.0	192.7	587	473	1,060	196	158	353	247	312	241
E07000071	Colchester	Essex	East of England	ENG	254.6	162.8	204.0	566	498	1,064	189	166	355	216	281	173
E07000072	Epping Forest	Essex	East of England	ENG	246.4	141.9	189.2	441	370	811	147	123	270	257	322	191
E07000073	Harlow	Essex	East of England	ENG	306.4	153.8	218.4	282	206	488	94	69	163	160	221	97
E07000074	Maldon	Essex	East of England	ENG	246.0	167.3	205.8	266	235	501	89	78	167	210	275	197
E07000075	Rochford	Essex	East of England	ENG	256.3	138.8	189.0	330	252	582	110	84	194	258	323	267
E06000033	Southend-on-Sea	Essex	East of England	ENG	280.3	163.7	216.5	678	571	1,249	226	190	416	170	231	115
E07000076	Tendring	Essex	East of England	ENG	295.7	193.0	240.8	839	758	1,597	280	253	532	87	136	34
E06000034	Thurrock	Essex	East of England	ENG	289.9	179.9	228.4	451	375	826	150	125	275	120	175	110
E07000077	Uttlesford	Essex	East of England	ENG	219.0	135.7	171.8	265	241	506	88	80	169	287	352	276
E07000078	Cheltenham	Gloucestershire	South West	ENG	267.9	177.4	217.5	426	416	842	142	139	281	163	224	228
E07000079	Cotswold	Gloucestershire	South West	ENG	236.1	151.0	190.9	369	333	702	123	111	234	252	317	258
E07000080	Forest of Dean	Gloucestershire	South West	ENG	276.5	185.0	226.9	371	339	710	124	113	237	127	183	135
E07000081	Gloucester	Gloucestershire	South West	ENG	312.1	171.8	233.9	466	357	823	155	119	274	107	161	128
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	217.3	141.9	176.8	814	717	1,531	271	239	510	282	347	251
E07000082	Stroud	Gloucestershire	South West	ENG	252.3	166.5	204.1	439	399	838	146	133	279	214	279	261
E07000083	Tewkesbury	Gloucestershire	South West	ENG	272.1	140.2	197.8	374	274	648	125	91	216	235	300	243
E09000002	Barking and Dagenham	Greater London	London	ENG	345.2	195.3	260.7	508	387	895	169	129	298	35	67	5
E09000003	Barnet	Greater London	London	ENG	251.4	184.6	216.5	1,026	1,108	2,134	342	369	711	172	233	171
E09000004	Bexley	Greater London	London	ENG	269.6	165.2	210.4	746	710	1,456	249	237	485	191	256	177
E09000005	Brent	Greater London	London	ENG	295.5	201.5	246.6	879	767	1,646	293	256	549	71	116	47
E09000006	Bromley	Greater London	London	ENG	242.1	151.1	190.8	971	897	1,868	324	299	623	253	318	218
E09000007	Camden	Greater London	London	ENG	214.6	138.1	172.7	446	390	836	149	130	279	286	351	125
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189
E09000008	Croydon	Greater London	London	ENG	258.0	165.3	207.8	994	831	1,825	331	277	608	198	263	96
E09000009	Ealing	Greater London	London	ENG	277.9	169.4	220.3	907	691	1,598	302	230	533	153	213	87
E09000010	Enfield	Greater London	London	ENG	310.1	206.2	252.9	974	910	1,884	325	303	628	49	88	58
E09000011	Greenwich	Greater London	London	ENG	301.7	202.8	248.7	656	568	1,224	219	189	408	66	109	63
E09000012	Hackney	Greater London	London	ENG	310.5	191.1	247.4	514	360	874	171	120	291	70	115	8
E09000013	Hammersmith and Fulham	Greater London	London	ENG	304.0	172.8	227.6	407	318	725	136	106	242	124	180	93
E09000014	Haringey	Greater London	London	ENG	332.2	216.4	269.3	655	542	1,197	218	181	399	29	58	36
E09000015	Harrow	Greater London	London	ENG	263.8	193.3	227.0	760	752	1,512	253	251	504	125	181	188
E09000016	Havering	Greater London	London	ENG	263.4	166.1	207.6	816	804	1,620	272	268	540	199	264	167
E09000017	Hillingdon	Greater London	London	ENG	270.3	187.2	226.4	822	729	1,551	274	243	517	130	186	138
E09000018	Hounslow	Greater London	London	ENG	294.8	189.4	239.4	705	556	1,261	235	185	420	94	143	90
E09000019	Islington	Greater London	London	ENG	279.0	171.0	219.6	419	322	741	140	107	247	156	217	29
E09000020	Kensington and Chelsea	Greater London	London	ENG	199.8	116.6	154.7	335	240	575	112	80	192	294	359	118
E09000021	Kingston upon Thames	Greater London	London	ENG	250.6	162.3	202.1	425	404	829	142	135	276	226	291	252
E09000022	Lambeth	Greater London	London	ENG	284.0	167.6	219.9	600	437	1,037	200	146	346	155	215	43
E09000023	Lewisham	Greater London	London	ENG	306.4	201.1	249.0	648	573	1,221	216	191	407	64	107	35
E09000024	Merton	Greater London	London	ENG	251.1	169.8	206.8	463	436	899	154	145	300	206	271	205
E09000025	Newham	Greater London	London	ENG	306.7	186.9	242.1	658	450	1,108	219	150	369	82	131	13
E09000026	Redbridge	Greater London	London	ENG	263.1	147.0	199.8	738	540	1,278	246	180	426	230	295	153
E09000027	Richmond upon Thames	Greater London	London	ENG	224.6	129.6	169.4	469	398	867	156	133	289	288	353	278
E09000028	Southwark	Greater London	London	ENG	282.4	156.0	211.1	557	403	960	186	134	320	188	251	45
E09000029	Sutton	Greater London	London	ENG	258.8	153.6	200.2	569	487	1,056	190	162	352	229	294	216
E09000030	Tower Hamlets	Greater London	London	ENG	275.8	173.8	221.2	434	303	737	145	101	246	149	209	30
E09000031	Waltham Forest	Greater London	London	ENG	279.3	169.2	220.1	611	475	1,086	204	158	362	154	214	44
E09000032	Wandsworth	Greater London	London	ENG	261.1	163.3	207.2	581	483	1,064	194	161	355	201	266	164
E09000033	Westminster	Greater London	London	ENG	199.1	128.3	161.5	446	343	789	149	114	263	293	358	134
E08000001	Bolton	Greater Manchester	North West	ENG	313.3	207.0	257.5	1,074	876	1,950	358	292	650	41	74	42
E08000002	Bury	Greater Manchester	North West	ENG	283.5	173.1	223.2	664	537	1,201	221	179	400	141	201	102
E08000003	Manchester	Greater Manchester	North West	ENG	399.4	246.8	316.1	1,479	1,155	2,634	493	385	878	4	11	2
E08000004	Oldham	Greater Manchester	North West	ENG	327.4	215.8	268.1	858	712	1,570	286	237	523	30	59	24
E08000005	Rochdale	Greater Manchester	North West	ENG	342.7	212.2	272.4	848	675	1,523	283	225	508	23	51	17
E08000006	Salford	Greater Manchester	North West	ENG	324.6	183.6	247.9	838	593	1,431	279	198	477	67	110	20
E08000007	Stockport	Greater Manchester	North West	ENG	286.3	173.6	224.5	1,144	962	2,106	381	321	702	135	193	145

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2019/21

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LA CodeLA/DC/UACeremonial County (Eng/Wal)Region/Nation4N					ALL AGES											
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2019/21			Average number of annual CVD deaths 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E08000008	Tameside	Greater Manchester	North West	ENG	357.6	224.4	283.9	933	747	1,680	311	249	560	13	31	22
E08000009	Trafford	Greater Manchester	North West	ENG	285.2	180.3	227.8	818	735	1,553	273	245	518	122	177	201
E08000010	Wigan	Greater Manchester	North West	ENG	326.5	196.1	254.7	1,329	986	2,315	443	329	772	45	82	91
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	275.5	183.1	224.5	576	494	1,070	192	165	357	134	192	234
E07000085	East Hampshire	Hampshire	South East	ENG	231.6	150.9	186.4	450	432	882	150	144	294	264	329	266
E07000086	Eastleigh	Hampshire	South East	ENG	248.5	153.0	195.4	451	387	838	150	129	279	241	306	270
E07000087	Fareham	Hampshire	South East	ENG	244.4	171.3	202.9	457	469	926	152	156	309	220	285	280
E07000088	Gosport	Hampshire	South East	ENG	302.6	190.5	241.8	351	304	655	117	101	218	84	133	121
E07000089	Hart	Hampshire	South East	ENG	192.8	135.5	161.9	255	252	507	85	84	169	292	357	296
E07000090	Havant	Hampshire	South East	ENG	273.6	160.9	211.1	559	460	1,019	186	153	340	187	250	124
E07000091	New Forest	Hampshire	South East	ENG	231.9	154.7	190.1	851	856	1,707	284	285	569	254	319	230
E06000044	Portsmouth	Hampshire	South East	ENG	346.1	207.8	270.6	728	608	1,336	243	203	445	27	55	54
E07000092	Rushmoor	Hampshire	South East	ENG	268.1	173.4	215.1	258	227	485	86	76	162	176	237	186
E06000045	Southampton	Hampshire	South East	ENG	305.1	201.4	249.4	714	655	1,369	238	218	456	60	103	55
E07000093	Test Valley	Hampshire	South East	ENG	249.3	161.4	202.3	459	419	878	153	140	293	224	289	240
E07000094	Winchester	Hampshire	South East	ENG	233.4	137.4	180.8	435	387	822	145	129	274	274	339	274
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	285.5	203.8	242.1	910	877	1,787	303	292	596	81	130	129
E07000095	Broxbourne	Hertfordshire	East of England	ENG	268.2	165.4	210.4	316	273	589	105	91	196	190	255	142
E07000096	Dacorum	Hertfordshire	East of England	ENG	239.4	155.3	193.8	449	425	874	150	142	291	246	311	229
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	249.1	153.6	198.0	469	402	871	156	134	290	234	299	288
E07000098	Hertsmere	Hertfordshire	East of England	ENG	247.3	147.9	191.8	330	296	626	110	99	209	250	315	214
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	258.8	158.9	202.7	455	409	864	152	136	288	221	286	254
E07000240	St Albans	Hertfordshire	East of England	ENG	197.5	138.3	165.6	362	366	728	121	122	243	291	356	287
E07000243	Stevenage	Hertfordshire	East of England	ENG	265.1	164.2	209.2	248	226	474	83	75	158	197	262	111
E07000102	Three Rivers	Hertfordshire	East of England	ENG	217.6	136.0	174.0	263	232	495	88	77	165	284	349	273
E07000103	Watford	Hertfordshire	East of England	ENG	264.3	166.9	210.5	239	215	454	80	72	151	189	254	185
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	257.9	158.6	201.8	350	325	675	117	108	225	227	292	202
E06000046	Isle of Wight	Isle of Wight	South East	ENG	373.0	280.9	325.7	960	1,044	2,004	320	348	668	2	6	78
E07000105	Ashford	Kent	South East	ENG	245.2	171.3	206.5	412	388	800	137	129	267	207	272	143
E07000106	Canterbury	Kent	South East	ENG	255.1	158.8	202.4	566	546	1,112	189	182	371	223	288	176
E07000107	Dartford	Kent	South East	ENG	254.3	176.8	213.2	289	265	554	96	88	185	179	241	133
E07000108	Dover	Kent	South East	ENG	272.3	178.5	223.3	495	437	932	165	146	311	140	200	101
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	270.4	186.0	225.1	489	468	957	163	156	319	132	189	83
E07000109	Gravesham	Kent	South East	ENG	275.5	166.8	217.1	358	282	640	119	94	213	165	226	109
E07000110	Maidstone	Kent	South East	ENG	257.3	152.0	198.8	568	469	1,037	189	156	346	233	298	174
E06000035	Medway	Kent	South East	ENG	308.7	171.4	232.3	902	666	1,568	301	222	523	110	165	92
E07000111	Sevenoaks	Kent	South East	ENG	234.4	146.1	184.8	409	373	782	136	124	261	266	331	239
E07000113	Swale	Kent	South East	ENG	328.2	171.3	238.3	591	417	1,008	197	139	336	98	147	64
E07000114	Thanet	Kent	South East	ENG	304.0	189.5	239.2	631	578	1,209	210	193	403	95	144	37
E07000115	Tonbridge and Malling	Kent	South East	ENG	279.4	131.9	195.1	461	304	765	154	101	255	243	308	224
E07000116	Tunbridge Wells	Kent	South East	ENG	236.5	163.9	197.3	383	396	779	128	132	260	236	301	256
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	347.7	220.0	277.9	523	402	925	174	134	308	15	37	15
E06000009	Blackpool	Lancashire	North West	ENG	375.6	215.3	291.3	739	545	1,284	246	182	428	9	23	1
E07000117	Burnley	Lancashire	North West	ENG	323.3	223.3	270.5	366	320	686	122	107	229	28	56	10
E07000118	Chorley	Lancashire	North West	ENG	304.2	204.1	250.1	457	390	847	152	130	282	56	98	180
E07000119	Fylde	Lancashire	North West	ENG	252.5	167.5	207.1	377	360	737	126	120	246	202	267	190
E07000120	Hyndburn	Lancashire	North West	ENG	352.8	223.2	284.6	356	279	635	119	93	212	12	30	19
E07000121	Lancaster	Lancashire	North West	ENG	327.8	186.3	248.9	631	498	1,129	210	166	376	65	108	108
E07000122	Pendle	Lancashire	North West	ENG	301.6	205.0	249.7	349	293	642	116	98	214	58	100	31
E07000123	Preston	Lancashire	North West	ENG	339.1	218.8	276.3	516	422	938	172	141	313	16	40	46
E07000124	Ribble Valley	Lancashire	North West	ENG	250.8	164.4	204.6	248	217	465	83	72	155	212	277	262
E07000125	Rossendale	Lancashire	North West	ENG	306.6	191.1	243.2	270	214	484	90	71	161	79	127	89
E07000126	South Ribble	Lancashire	North West	ENG	277.6	174.9	222.5	437	364	801	146	121	267	145	205	200
E07000127	West Lancashire	Lancashire	North West	ENG	331.1	210.5	264.6	539	474	1,013	180	158	338	31	61	169
E07000128	Wyre	Lancashire	North West	ENG	320.2	181.7	244.7	655	507	1,162	218	169	387	74	121	146
E07000129	Blaby	Leicestershire	East Midlands	ENG	228.5	147.1	183.8	309	279	588	103	93	196	269	334	264
E07000130	Charnwood	Leicestershire	East Midlands	ENG	293.4	168.1	224.0	661	515	1,176	220	172	392	137	196	231
E07000131	Harborough	Leicestershire	East Midlands	ENG	243.1	154.5	194.0	332	292	624	111	97	208	245	310	289
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	281.7	160.1	209.9	437	346	783	146	115	261	193	258	225

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2019/21			Average number of annual CVD deaths 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E06000016	Leicester	Leicestershire	East Midlands	ENG	332.2	235.3	281.1	1,017	934	1,951	339	311	650	14	34	23
E07000133	Melton	Leicestershire	East Midlands	ENG	288.8	171.1	223.1	221	175	396	74	58	132	142	202	237
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	291.6	188.9	233.8	379	329	708	126	110	236	108	162	209
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	256.0	176.4	212.4	222	233	455	74	78	152	184	247	233
E07000136	Boston	Lincolnshire	East Midlands	ENG	336.4	221.0	272.4	324	288	612	108	96	204	24	52	80
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	349.4	240.0	290.9	964	808	1,772	321	269	591	10	24	32
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	340.4	255.5	294.6	351	380	731	117	127	244	6	18	67
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	290.8	195.9	238.6	524	460	984	175	153	328	97	146	253
E07000140	South Holland	Lincolnshire	East Midlands	ENG	292.1	201.2	244.5	459	409	868	153	136	289	75	122	136
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	297.9	174.5	229.4	629	517	1,146	210	172	382	118	173	227
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	337.0	184.9	253.0	503	352	855	168	117	285	48	87	137
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	338.5	218.0	273.0	740	651	1,391	247	217	464	22	50	65
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	323.0	190.6	250.6	771	619	1,390	257	206	463	55	96	113
E08000011	Knowsley	Merseyside	North West	ENG	323.1	231.8	273.6	569	543	1,112	190	181	371	20	47	3
E08000012	Liverpool	Merseyside	North West	ENG	331.6	205.5	263.1	1,657	1,338	2,995	552	446	998	33	64	4
E08000014	Sefton	Merseyside	North West	ENG	303.4	175.8	231.9	1,276	1,119	2,395	425	373	798	111	166	86
E08000013	St. Helens	Merseyside	North West	ENG	339.5	199.2	260.8	806	614	1,420	269	205	473	34	66	39
E08000015	Wirral	Merseyside	North West	ENG	287.1	178.8	226.8	1,316	1,167	2,483	439	389	828	129	185	75
E07000143	Breckland	Norfolk	East of England	ENG	264.9	164.8	209.3	623	534	1,157	208	178	386	196	261	116
E07000144	Broadland	Norfolk	East of England	ENG	256.4	161.7	203.0	578	523	1,101	193	174	367	218	283	244
E07000145	Great Yarmouth	Norfolk	East of England	ENG	328.0	181.1	249.3	528	382	910	176	127	303	62	105	25
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	258.0	169.6	209.5	663	592	1,255	221	197	418	194	259	76
E07000147	North Norfolk	Norfolk	East of England	ENG	262.9	171.8	212.5	610	563	1,173	203	188	391	183	246	95
E07000148	Norwich	Norfolk	East of England	ENG	317.8	210.1	259.6	473	448	921	158	149	307	37	69	60
E07000149	South Norfolk	Norfolk	East of England	ENG	252.1	162.2	203.0	576	514	1,090	192	171	363	219	284	219
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	278.2	175.0	221.7	1,181	966	2,147	394	322	716	147	207	148
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	262.7	175.2	216.8	1,273	1,092	2,365	424	364	788	168	229	178
E06000057	Northumberland	Northumberland	North East	ENG	282.6	169.6	220.6	1,452	1,150	2,602	484	383	867	151	211	122
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	285.3	208.1	243.1	458	431	889	153	144	296	80	129	59
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	278.7	201.3	238.8	486	443	929	162	148	310	96	145	105
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	281.8	182.7	227.0	449	394	843	150	131	281	126	182	213
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	284.0	191.5	234.0	450	415	865	150	138	288	105	159	199
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	298.5	189.8	239.5	419	351	770	140	117	257	93	142	56
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	279.1	184.8	229.8	498	437	935	166	146	312	116	171	140
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	369.6	230.7	294.0	1,001	845	1,846	334	282	615	8	20	11
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	241.6	168.4	203.3	414	428	842	138	143	281	217	282	294
E07000177	Cherwell	Oxfordshire	South East	ENG	228.0	145.3	183.0	435	374	809	145	125	270	272	337	211
E07000178	Oxford	Oxfordshire	South East	ENG	237.0	150.9	189.8	322	295	617	107	98	206	256	321	183
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	212.7	140.3	173.3	438	406	844	146	135	281	285	350	284
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	224.9	142.3	180.7	430	378	808	143	126	269	275	340	286
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	231.0	138.2	179.1	390	328	718	130	109	239	278	343	282
E06000017	Rutland	Rutland	East Midlands	ENG	246.9	142.9	187.3	167	136	303	56	45	101	261	326	279
E06000051	Shropshire	Shropshire	West Midlands	ENG	264.2	164.7	211.2	1,417	1,207	2,624	472	402	875	186	249	157
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	303.1	209.7	253.4	628	541	1,169	209	180	390	47	85	94
E06000022	Bath and North East Somerset	Somerset	South West	ENG	246.1	154.3	196.6	622	570	1,192	207	190	397	239	304	257
E06000024	North Somerset	Somerset	South West	ENG	225.6	146.4	182.7	768	721	1,489	256	240	496	273	338	208
E06000066	Somerset	Somerset	South West	ENG	263.5	161.0	207.0	2,445	2,142	4,587	815	714	1,529	203	268	139
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	296.3	200.4	244.4	376	341	717	125	114	239	76	123	120
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	288.7	183.2	232.5	440	386	826	147	129	275	109	164	150
E07000194	Lichfield	Staffordshire	West Midlands	ENG	251.0	171.7	207.0	401	369	770	134	123	257	204	269	235
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	286.2	170.4	223.5	509	410	919	170	137	306	139	198	141
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	310.7	161.2	227.6	547	399	946	182	133	315	123	179	220
E07000197	Stafford	Staffordshire	West Midlands	ENG	275.2	150.2	207.3	573	408	981	191	136	327	200	265	222
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	276.5	182.6	224.9	434	382	816	145	127	272	133	191	195
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	330.7	222.3	275.0	963	825	1,788	321	275	596	17	42	12
E07000199	Tamworth	Staffordshire	West Midlands	ENG	269.1	194.4	229.4	246	234	480	82	78	160	117	172	119
E07000200	Babergh	Suffolk	East of England	ENG	251.0	144.3	191.4	401	326	727	134	109	242	251	316	203
E07000244	East Suffolk	Suffolk	East of England	ENG	270.1	173.4	217.1	1,234	1,098	2,332	411	366	777	164	225	151
E07000202	Ipswich	Suffolk	East of England	ENG	267.8	171.3	215.6	438	383	821	146	128	274	174	235	69

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2019/21

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LA CodeLA/DC/UACeremonial County (Eng/Wal)Region/Nation4N					ALL AGES											
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2019/21			Average number of annual CVD deaths 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E07000203	Mid Suffolk	Suffolk	East of England	ENG	253.7	164.2	204.0	418	366	784	139	122	261	215	280	221
E07000245	West Suffolk	Suffolk	East of England	ENG	254.4	160.2	202.7	657	574	1,231	219	191	410	222	287	168
E07000207	Elmbridge	Surrey	South East	ENG	229.0	165.6	195.1	418	472	890	139	157	297	242	307	291
E07000208	Epsom and Ewell	Surrey	South East	ENG	206.8	134.5	166.9	209	192	401	70	64	134	289	354	281
E07000209	Guildford	Surrey	South East	ENG	218.0	156.8	183.5	373	396	769	124	132	256	271	336	277
E07000210	Mole Valley	Surrey	South East	ENG	237.7	130.8	178.8	351	280	631	117	93	210	279	344	275
E07000211	Reigate and Banstead	Surrey	South East	ENG	239.6	158.5	195.7	456	456	912	152	152	304	240	305	260
E07000212	Runnymede	Surrey	South East	ENG	265.8	181.3	221.2	292	290	582	97	97	194	148	208	246
E07000213	Spelthorne	Surrey	South East	ENG	268.2	165.7	212.3	352	299	651	117	100	217	185	248	192
E07000214	Surrey Heath	Surrey	South East	ENG	228.4	160.3	192.3	277	296	573	92	99	191	248	313	290
E07000215	Tandridge	Surrey	South East	ENG	244.9	152.0	194.3	320	282	602	107	94	201	244	309	242
E07000216	Waverley	Surrey	South East	ENG	227.8	138.4	176.8	453	437	890	151	146	297	281	346	293
E07000217	Woking	Surrey	South East	ENG	255.6	176.4	214.1	327	314	641	109	105	214	177	239	263
E08000037	Gateshead	Tyne & Wear	North East	ENG	305.0	198.0	247.9	817	714	1,531	272	238	510	68	111	53
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	303.0	186.0	239.8	932	765	1,697	311	255	566	90	139	70
E08000022	North Tyneside	Tyne & Wear	North East	ENG	308.7	201.2	247.5	819	783	1,602	273	261	534	69	113	123
E08000023	South Tyneside	Tyne & Wear	North East	ENG	326.3	198.6	253.6	630	552	1,182	210	184	394	46	84	26
E08000024	Sunderland	Tyne & Wear	North East	ENG	312.3	180.1	237.8	1,085	846	1,931	362	282	644	99	149	33
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	292.8	173.1	226.8	270	215	485	90	72	162	128	184	147
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	334.7	220.6	274.3	544	468	1,012	181	156	337	18	43	98
E07000220	Rugby	Warwickshire	West Midlands	ENG	298.8	153.7	219.5	433	298	731	144	99	244	158	219	212
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	226.5	143.3	179.7	504	455	959	168	152	320	277	342	245
E07000222	Warwick	Warwickshire	West Midlands	ENG	249.7	169.9	204.6	465	459	924	155	153	308	213	278	249
E08000025	Birmingham	West Midlands	West Midlands	ENG	328.3	197.5	256.7	3,517	2,854	6,371	1,172	951	2,124	43	80	7
E08000026	Coventry	West Midlands	West Midlands	ENG	318.0	192.1	251.9	1,136	909	2,045	379	303	682	50	91	72
E08000027	Dudley	West Midlands	West Midlands	ENG	311.1	198.7	249.3	1,333	1,188	2,521	444	396	840	61	104	99
E08000028	Sandwell	West Midlands	West Midlands	ENG	375.8	232.0	296.3	1,269	1,066	2,335	423	355	778	5	16	6
E08000029	Solihull	West Midlands	West Midlands	ENG	250.4	154.0	196.8	769	704	1,473	256	235	491	238	303	196
E08000030	Walsall	West Midlands	West Midlands	ENG	333.2	220.2	271.7	1,122	1,004	2,126	374	335	709	25	53	28
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	359.8	237.8	294.5	1,115	983	2,098	372	328	699	7	19	18
E07000223	Adur	West Sussex	South East	ENG	272.7	179.8	220.3	273	256	529	91	85	176	152	212	154
E07000224	Arun	West Sussex	South East	ENG	272.3	164.9	213.1	827	755	1,582	276	252	527	180	242	144
E07000225	Chichester	West Sussex	South East	ENG	245.6	144.3	188.6	555	490	1,045	185	163	348	259	324	204
E07000226	Crawley	West Sussex	South East	ENG	283.7	162.8	216.8	310	254	564	103	85	188	167	228	127
E07000227	Horsham	West Sussex	South East	ENG	226.6	136.6	176.3	501	448	949	167	149	316	283	348	271
E07000228	Mid Sussex	West Sussex	South East	ENG	248.7	136.2	184.7	524	430	954	175	143	318	267	332	292
E07000229	Worthing	West Sussex	South East	ENG	261.2	181.9	216.9	443	487	930	148	162	310	166	227	161
E06000030	Swindon	Wiltshire	South West	ENG	294.1	184.5	234.4	745	607	1,352	248	202	451	104	158	162
E06000054	Wiltshire	Wiltshire	South West	ENG	270.8	174.1	216.8	1,950	1,811	3,761	650	604	1,254	169	230	223
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	239.3	149.1	190.1	372	343	715	124	114	238	255	320	255
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	261.5	172.9	213.9	394	368	762	131	123	254	178	240	181
E07000236	Redditch	Worcestershire	West Midlands	ENG	277.7	170.6	218.2	276	221	497	92	74	166	162	223	114
E07000237	Worcester	Worcestershire	West Midlands	ENG	303.4	191.8	241.9	354	316	670	118	105	223	83	132	149
E07000238	Wychavon	Worcestershire	West Midlands	ENG	251.6	156.3	199.2	547	457	1,004	182	152	335	232	297	179
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	294.0	195.9	240.8	471	422	893	157	141	298	88	137	107
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	286.5	191.7	234.9	1,626	1,497	3,123	542	499	1,041	103	156	207
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	410.7	244.7	321.2	1,090	832	1,922	363	277	641	3	9	9
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	332.4	225.7	271.5	499	471	970	166	157	323	26	54	16
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	293.6	186.5	235.2	595	500	1,095	198	167	365	101	153	62
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	272.4	179.0	221.1	2,681	2,540	5,221	894	847	1,740	150	210	210
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	290.9	181.7	228.7	734	695	1,429	245	232	476	119	174	259
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	350.4	211.3	273.9	1,100	866	1,966	367	289	655	19	46	38
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	318.4	208.0	259.4	1,275	1,093	2,368	425	364	789	38	70	40
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	307.2	210.5	255.5	1,061	951	2,012	354	317	671	44	81	49
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	299.8	192.9	241.5	1,941	1,704	3,645	647	568	1,215	86	135	88
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	361.0	223.3	285.9	1,999	1,677	3,676	666	559	1,225	11	28	21
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	318.1	194.3	249.2	796	689	1,485	265	230	495	63	106	73
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	300.4	210.0	250.8	1,526	1,448	2,974	509	483	991	54	95	82
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	302.0	184.3	236.6	2,494	2,125	4,619	831	708	1,540	100	151	85

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2019/21

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LA CodeLA/DC/UACeremonial County (Eng/Wal)Region/Nation4N					ALL AGES											
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2019/21			Average number of annual CVD deaths 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	301.1	188.8	240.5	1,327	1,076	2,403	442	359	801	89	138	61
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	291.7	169.4	223.4	453	376	829	151	125	276	8	199	10
N09000011	Ards and North Down		Northern Ireland	NI	251.1	187.1	211.1	547	538	1,085	182	179	362	11	252	9
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	278.8	170.4	219.9	605	521	1,126	202	174	375	9	216	7
N09000003	Belfast		Northern Ireland	NI	315.9	243.4	247.6	1,059	1,009	2,068	353	336	689	2	112	4
N09000004	Causeway Coast and Glens		Northern Ireland	NI	279.5	156.8	236.2	472	464	936	157	155	312	4	152	5
N09000005	Derry City and Strabane		Northern Ireland	NI	306.4	176.0	243.2	454	352	806	151	117	269	3	128	1
N09000006	Fermanagh and Omagh		Northern Ireland	NI	291.3	186.9	234.8	384	332	716	128	111	239	5	157	2
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	252.3	203.8	214.9	412	442	854	137	147	285	10	238	11
N09000008	Mid and East Antrim		Northern Ireland	NI	291.8	185.3	233.0	498	445	943	166	148	314	6	163	8
N09000009	Mid Ulster		Northern Ireland	NI	287.5	204.3	252.4	407	425	832	136	142	277	1	89	6
N09000010	Newry, Mourne and Down		Northern Ireland	NI	286.6	194.6	225.0	530	448	978	177	149	326	7	190	3
S12000033	Aberdeen City		Scotland	SCO	341.6	234.7	281.9	806	806	1,612	269	269	537	17	33	26
S12000034	Aberdeenshire		Scotland	SCO	336.1	239.0	280.7	1,062	1,021	2,083	354	340	694	18	35	30
S12000041	Angus		Scotland	SCO	304.9	222.7	257.3	530	557	1,087	177	186	362	25	76	20
S12000035	Argyll and Bute		Scotland	SCO	354.2	225.0	285.2	497	413	910	166	138	303	15	29	19
S12000036	City of Edinburgh		Scotland	SCO	334.5	200.3	257.3	1,752	1,579	3,331	584	526	1,110	24	75	29
S12000005	Clackmannanshire		Scotland	SCO	404.9	291.6	344.5	274	242	516	91	81	172	1	2	8
S12000006	Dumfries and Galloway		Scotland	SCO	360.5	240.8	295.7	888	779	1,667	296	260	556	11	17	12
S12000042	Dundee City		Scotland	SCO	413.1	247.8	317.2	687	618	1,305	229	206	435	6	10	6
S12000008	East Ayrshire		Scotland	SCO	429.9	270.6	340.8	677	562	1,239	226	187	413	2	3	7
S12000045	East Dunbartonshire		Scotland	SCO	275.1	191.0	227.7	432	442	874	144	147	291	32	178	31
S12000010	East Lothian		Scotland	SCO	320.6	192.1	245.6	444	379	823	148	126	274	28	118	22
S12000011	East Renfrewshire		Scotland	SCO	295.7	192.6	235.1	360	376	736	120	125	245	31	154	32
S12000014	Falkirk		Scotland	SCO	369.6	266.3	312.9	731	689	1,420	244	230	473	8	13	16
S12000047	Fife		Scotland	SCO	360.7	239.6	292.7	1,771	1,600	3,371	590	533	1,124	12	21	17
S12000049	Glasgow City		Scotland	SCO	429.6	264.0	334.0	2,406	2,185	4,591	802	728	1,530	4	5	2
S12000017	Highland		Scotland	SCO	336.3	227.8	277.5	1,147	1,037	2,184	382	346	728	19	38	18
S12000018	Inverclyde		Scotland	SCO	398.5	241.7	306.8	404	372	776	135	124	259	10	15	4
S12000019	Midlothian		Scotland	SCO	306.4	220.0	257.1	322	310	632	107	103	211	26	77	14
S12000020	Moray		Scotland	SCO	319.0	235.9	274.0	437	433	870	146	144	290	21	45	23
S12000013	Na h-Eileanan Siar		Scotland	SCO	333.3	234.6	283.1	152	152	304	51	51	101	16	32	10
S12000021	North Ayrshire		Scotland	SCO	400.6	269.4	325.5	731	692	1,423	244	231	474	5	7	3
S12000050	North Lanarkshire		Scotland	SCO	391.2	256.2	314.1	1,463	1,286	2,749	488	429	916	7	12	5
S12000023	Orkney Islands		Scotland	SCO	316.0	173.7	238.1	111	79	190	37	26	63	29	148	24
S12000048	Perth and Kinross		Scotland	SCO	315.9	211.8	257.1	740	711	1,451	247	237	484	27	78	28
S12000038	Renfrewshire		Scotland	SCO	357.0	237.3	290.7	796	726	1,522	265	242	507	14	25	9
S12000026	Scottish Borders		Scotland	SCO	310.6	223.4	263.9	555	527	1,082	185	176	361	23	63	21
S12000027	Shetland Islands		Scotland	SCO	302.8	179.9	237.8	94	70	164	31	23	55	30	150	25
S12000028	South Ayrshire		Scotland	SCO	393.5	247.7	311.8	710	638	1,348	237	213	449	9	14	13
S12000029	South Lanarkshire		Scotland	SCO	378.0	230.2	292.4	1,479	1,280	2,759	493	427	920	13	22	11
S12000030	Stirling		Scotland	SCO	339.0	224.3	273.2	396	368	764	132	123	255	22	49	27
S12000039	West Dunbartonshire		Scotland	SCO	418.4	272.6	336.3	428	395	823	143	132	274	3	4	1
S12000040	West Lothian		Scotland	SCO	320.6	235.8	274.3	642	588	1,230	214	196	410	20	44	15
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	306.6	189.3	243.2	664	586	1,250	221	195	417	18	126	17
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	326.5	229.1	275.9	507	428	935	169	143	312	6	41	9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	287.5	220.4	252.2	616	596	1,212	205	199	404	13	90	20
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	308.6	217.8	262.0	583	501	1,084	194	167	361	9	65	14
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	324.0	204.7	259.0	960	796	1,756	320	265	585	10	72	8
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	305.1	198.9	247.4	369	319	688	123	106	229	16	114	16
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	307.0	202.5	249.5	647	574	1,221	216	191	407	15	101	12
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	381.7	269.1	321.7	347	311	658	116	104	219	1	8	1
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	367.3	225.7	289.9	822	651	1,473	274	217	491	3	27	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	261.4	169.6	210.9	419	370	789	140	123	263	22	253	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	352.4	217.3	280.4	647	520	1,167	216	173	389	4	36	5
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	313.3	224.4	265.2	399	378	777	133	126	259	8	60	7
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	327.4	188.7	254.5	616	503	1,119	205	168	373	11	83	18
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	305.3	206.8	250.5	354	331	685	118	110	228	14	97	15
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	298.3	198.1	244.9	588	503	1,091	196	168	364	17	119	10

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2019/21			Average number of annual CVD deaths 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	353.9	232.7	290.2	269	216	485	90	72	162	2	26	2
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	334.5	226.4	276.8	1,023	885	1,908	341	295	636	5	39	4
W06000023	Powys	Powys	Wales / Cymru	WAL	295.2	171.9	226.3	695	554	1,249	232	185	416	19	187	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	295.5	166.1	224.1	1,041	850	1,891	347	283	630	20	194	11
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	267.7	169.2	212.9	481	436	917	160	145	306	21	244	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	338.2	216.4	270.2	648	556	1,204	216	185	401	7	57	3
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	321.8	197.6	253.4	1,028	891	1,919	343	297	640	12	86	13

Notes: ICD-10 codes I00-I99. Directly age-standardised using the 2013 European Standard Population. Some of the data for England and Wales have been suppressed.
Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area
UK local authorities correct April 2023 - ASDRs for Somerset, North Yorkshire, Cumberland and Westmorland & Furness are provisional.
* indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)

Citation: BHF (2023) Analysis of official UK mortality data

Source: England: Number of Deaths are taken from Nomis Mortality Statistics <http://www.nomisweb.co.uk/datasets/mortsa>
Wales: Number of Deaths are taken from Nomis Mortality Statistics <http://www.nomisweb.co.uk/datasets/mortsa>
Scotland: Mortality rates calculated in partnership with NRS (National Records of 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://statswales.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 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2019/21			Average number of annual prem CVD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E06000055	Bedford	Bedfordshire	East of England	ENG	103.3	41.6	71.7	229	96	325	76	32	108	128	176	152
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	84.4	35.0	59.0	320	141	461	107	47	154	214	277	247
E06000032	Luton	Bedfordshire	East of England	ENG	123.5	60.7	92.0	267	128	395	89	43	132	38	61	51
E06000036	Bracknell Forest	Berkshire	South East	ENG	84.4	38.3	60.9	123	57	180	41	19	60	201	263	265
E06000038	Reading	Berkshire	South East	ENG	116.7	46.6	81.6	194	75	269	65	25	90	80	114	132
E06000039	Slough	Berkshire	South East	ENG	136.6	63.9	99.8	189	89	278	63	30	93	24	39	74
E06000037	West Berkshire	Berkshire	South East	ENG	79.1	31.1	54.5	176	72	248	59	24	83	239	303	272
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	67.1	32.3	49.3	129	65	194	43	22	65	270	334	285
E06000041	Wokingham	Berkshire	South East	ENG	66.9	35.1	50.6	143	80	223	48	27	74	264	328	295
E06000023	Bristol, City of	Bristol	South West	ENG	111.7	45.1	77.8	500	208	708	167	69	236	101	139	77
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	75.2	29.8	51.8	530	222	752	177	74	251	256	320	268
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	85.3	41.7	62.6	262	139	401	87	46	134	187	246	165
E07000008	Cambridge	Cambridgeshire	East of England	ENG	85.2	41.5	59.8	103	43	146	34	14	49	209	271	198
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	63.5	37.5	50.2	79	50	129	26	17	43	267	331	250
E07000010	Fenland	Cambridgeshire	East of England	ENG	116.5	53.2	84.2	175	84	259	58	28	86	66	97	50
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	79.3	32.5	55.6	201	85	286	67	28	95	234	298	236
E06000031	Peterborough	Cambridgeshire	East of England	ENG	120.3	48.6	83.5	272	113	385	91	38	128	70	101	52
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	64.2	24.2	43.5	139	55	194	46	18	65	289	354	283
E06000049	Cheshire East	Cheshire	North West	ENG	95.7	36.4	65.3	556	226	782	185	75	261	171	228	217
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	102.9	42.6	71.9	514	228	742	171	76	247	127	175	170
E06000006	Halton	Cheshire	North West	ENG	127.7	58.9	92.3	226	112	338	75	37	113	37	60	41
E06000007	Warrington	Cheshire	North West	ENG	111.9	47.4	79.0	319	141	460	106	47	153	91	129	163
E06000052	Cornwall	Cornwall	South West	ENG	98.1	40.3	68.1	893	403	1,296	298	134	432	151	202	79
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232
E06000047	County Durham	County Durham	North East	ENG	117.4	55.2	85.6	890	447	1,337	297	149	446	64	94	68
E06000005	Dartlington	County Durham	North East	ENG	107.2	52.3	78.9	159	82	241	53	27	80	92	130	100
E06000001	Hartlepool	County Durham	North East	ENG	124.4	56.8	89.9	162	76	238	54	25	79	44	71	27
E06000004	Stockton-on-Tees	County Durham	North East	ENG	103.6	50.4	76.2	275	140	415	92	47	138	108	150	112
E06000063	Cumberland	Cumbria	North West	ENG	113.2	50.3	81.3	482	217	699	161	72	233	83	119	103
E06000064	Westmorland and Furness	Cumbria	North West	ENG	95.7	42.9	67.5	353	153	506	118	51	169	157	209	160
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	102.7	40.0	71.0	202	82	284	67	27	95	134	183	158
E07000033	Bolsover	Derbyshire	East Midlands	ENG	109.1	63.7	86.1	127	76	203	42	25	68	61	90	57
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	119.5	47.8	82.9	181	78	259	60	26	86	72	103	81
E06000015	Derby	Derbyshire	East Midlands	ENG	136.7	57.1	96.0	404	177	581	135	59	194	31	50	84
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	91.1	32.2	58.5	117	36	153	39	12	51	219	282	248
E07000036	Erewash	Derbyshire	East Midlands	ENG	102.8	50.5	75.9	166	85	251	55	28	84	111	154	159
E07000037	High Peak	Derbyshire	East Midlands	ENG	100.1	43.1	71.3	143	63	206	48	21	69	131	180	193
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	94.2	45.5	69.2	151	78	229	50	26	76	143	194	166
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	104.0	34.5	68.6	153	53	206	51	18	69	147	198	215
E07000040	East Devon	Devon	South West	ENG	72.6	31.8	51.0	176	83	259	59	28	86	261	325	226
E07000041	Exeter	Devon	South West	ENG	101.5	37.8	68.0	139	57	196	46	19	65	153	204	182
E07000042	Mid Devon	Devon	South West	ENG	68.6	33.8	48.2	89	38	127	30	13	42	276	340	155
E07000043	North Devon	Devon	South West	ENG	94.0	43.0	67.8	145	71	216	48	24	72	154	205	117
E06000026	Plymouth	Devon	South West	ENG	108.6	56.8	82.0	360	198	558	120	66	186	77	110	71
E07000044	South Hams	Devon	South West	ENG	60.8	24.7	42.0	94	40	134	31	13	45	291	356	206
E07000045	Teignbridge	Devon	South West	ENG	90.9	34.0	61.2	205	84	289	68	28	96	198	260	175
E06000027	Torbay	Devon	South West	ENG	102.2	44.8	72.6	225	105	330	75	35	110	124	172	48
E07000046	Torridge	Devon	South West	ENG	83.6	42.5	62.4	100	55	155	33	18	52	189	248	66

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2019/21

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LA CodeLA/DC/UACeremonial County (Eng/Wal)Region/Nation4N					UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2019/21			Average number of annual prem CVD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E07000047	West Devon	Devon	South West	ENG	92.2	36.1	63.5	92	41	133	31	14	44	182	241	130
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	93.7	40.3	66.2	500	231	731	167	77	244	164	219	156
E06000059	Dorset	Dorset	South West	ENG	76.3	32.2	53.4	493	225	718	164	75	239	244	308	187
E06000043	Brighton and Hove	East Sussex	South East	ENG	104.7	37.7	71.1	325	114	439	108	38	146	132	181	131
E07000061	Eastbourne	East Sussex	South East	ENG	82.5	40.7	60.5	120	66	186	40	22	62	205	267	104
E07000062	Hastings	East Sussex	South East	ENG	144.0	61.5	101.3	187	87	274	62	29	91	23	35	14
E07000063	Lewes	East Sussex	South East	ENG	89.7	27.6	57.3	142	50	192	47	17	64	227	290	184
E07000064	Rother	East Sussex	South East	ENG	73.2	32.3	51.6	126	64	190	42	21	63	257	321	126
E07000065	Wealden	East Sussex	South East	ENG	74.4	27.1	49.6	192	78	270	64	26	90	268	332	238
E07000066	Basildon	Essex	East of England	ENG	98.5	41.4	68.6	222	103	325	74	34	108	149	200	106
E07000067	Braintree	Essex	East of England	ENG	80.4	33.5	56.0	173	78	251	58	26	84	232	296	194
E07000068	Brentwood	Essex	East of England	ENG	92.0	31.2	60.6	92	34	126	31	11	42	203	265	269
E07000069	Castle Point	Essex	East of England	ENG	96.7	40.7	67.4	129	62	191	43	21	64	158	210	172
E07000070	Chelmsford	Essex	East of England	ENG	73.3	32.3	52.2	171	82	253	57	27	84	252	316	241
E07000071	Colchester	Essex	East of England	ENG	79.7	34.7	56.2	186	88	274	62	29	91	230	294	173
E07000072	Epping Forest	Essex	East of England	ENG	91.4	32.6	60.8	159	61	220	53	20	73	202	264	191
E07000073	Harlow	Essex	East of England	ENG	123.9	47.9	84.2	122	51	173	41	17	58	65	96	97
E07000074	Maldon	Essex	East of England	ENG	65.6	32.6	48.7	71	38	109	24	13	36	272	336	197
E07000075	Rochford	Essex	East of England	ENG	86.3	31.9	58.2	111	44	155	37	15	52	222	285	267
E06000033	Southend-on-Sea	Essex	East of England	ENG	114.4	48.4	80.4	272	122	394	91	41	131	85	121	115
E07000076	Tendring	Essex	East of England	ENG	115.8	51.3	81.9	283	144	427	94	48	142	79	112	34
E06000034	Thurrock	Essex	East of England	ENG	98.9	53.0	75.7	190	103	293	63	34	98	113	156	110
E07000077	Uttlesford	Essex	East of England	ENG	62.2	33.2	45.3	80	39	119	27	13	40	284	349	276
E07000078	Cheltenham	Gloucestershire	South West	ENG	97.0	45.5	70.3	144	72	216	48	24	72	139	188	228
E07000079	Cotswold	Gloucestershire	South West	ENG	79.7	32.6	51.2	115	39	154	38	13	51	259	323	258
E07000080	Forest of Dean	Gloucestershire	South West	ENG	92.6	40.8	66.1	128	61	189	43	20	63	167	222	135
E07000081	Gloucester	Gloucestershire	South West	ENG	122.1	46.2	83.0	192	77	269	64	26	90	71	102	128
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	75.0	32.5	53.1	269	124	393	90	41	131	247	311	251
E07000082	Stroud	Gloucestershire	South West	ENG	74.8	32.8	53.2	139	65	204	46	22	68	246	310	261
E07000083	Tewkesbury	Gloucestershire	South West	ENG	101.5	31.6	65.2	139	46	185	46	15	62	173	230	243
E09000002	Barking and Dagenham	Greater London	London	ENG	162.9	68.5	113.3	282	126	408	94	42	136	7	13	5
E09000003	Barnet	Greater London	London	ENG	81.6	32.2	55.8	342	145	487	114	48	162	233	297	171
E09000004	Bexley	Greater London	London	ENG	95.9	42.7	68.2	272	132	404	91	44	135	150	201	177
E09000005	Brent	Greater London	London	ENG	115.8	42.6	78.1	391	149	540	130	50	180	98	136	47
E09000006	Bromley	Greater London	London	ENG	81.9	37.5	58.6	326	164	490	109	55	163	217	280	218
E09000007	Camden	Greater London	London	ENG	85.7	40.6	62.0	193	101	294	64	34	98	191	252	125
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189
E09000008	Croydon	Greater London	London	ENG	106.5	42.6	73.0	450	194	644	150	65	215	121	169	96
E09000009	Ealing	Greater London	London	ENG	119.1	41.6	79.2	431	156	587	144	52	196	88	125	87
E09000010	Enfield	Greater London	London	ENG	109.0	46.4	76.1	376	171	547	125	57	182	109	151	58
E09000011	Greenwich	Greater London	London	ENG	117.5	56.5	86.3	312	153	465	104	51	155	58	87	63
E09000012	Hackney	Greater London	London	ENG	136.1	43.2	87.1	291	103	394	97	34	131	54	83	8
E09000013	Hammersmith and Fulham	Greater London	London	ENG	117.6	49.7	80.5	182	94	276	61	31	92	84	120	93
E09000014	Haringey	Greater London	London	ENG	122.4	55.5	86.8	304	152	456	101	51	152	55	84	36
E09000015	Harrow	Greater London	London	ENG	87.9	30.8	58.3	252	95	347	84	32	116	221	284	188
E09000016	Havering	Greater London	London	ENG	87.4	41.0	63.2	271	139	410	90	46	137	185	244	167
E09000017	Hillingdon	Greater London	London	ENG	102.7	40.2	70.8	327	130	457	109	43	152	135	184	138
E09000018	Hounslow	Greater London	London	ENG	110.6	47.9	78.7	312	136	448	104	45	149	94	132	90

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2019/21			Average number of annual prem CVD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E09000019	Islington	Greater London	London	ENG	108.3	41.9	73.5	196	82	278	65	27	93	118	165	29
E09000020	Kensington and Chelsea	Greater London	London	ENG	79.0	28.8	52.0	135	57	192	45	19	64	253	317	118
E09000021	Kingston upon Thames	Greater London	London	ENG	74.7	32.9	53.2	139	64	203	46	21	68	245	309	252
E09000022	Lambeth	Greater London	London	ENG	122.3	46.8	82.7	318	128	446	106	43	149	73	104	43
E09000023	Lewisham	Greater London	London	ENG	122.2	53.6	85.9	311	155	466	104	52	155	63	92	35
E09000024	Merton	Greater London	London	ENG	85.4	32.8	57.7	178	75	253	59	25	84	226	289	205
E09000025	Newham	Greater London	London	ENG	135.5	55.7	93.9	373	166	539	124	55	180	33	55	13
E09000026	Redbridge	Greater London	London	ENG	102.0	37.5	69.1	316	116	432	105	39	144	145	196	153
E09000027	Richmond upon Thames	Greater London	London	ENG	72.1	31.0	50.6	166	78	244	55	26	81	265	329	278
E09000028	Southwark	Greater London	London	ENG	117.3	48.8	81.6	297	130	427	99	43	142	81	115	45
E09000029	Sutton	Greater London	London	ENG	85.4	32.6	58.0	203	82	285	68	27	95	225	288	216
E09000030	Tower Hamlets	Greater London	London	ENG	115.3	44.8	79.7	232	88	320	77	29	107	86	123	30
E09000031	Waltham Forest	Greater London	London	ENG	108.2	49.0	77.4	277	129	406	92	43	135	104	144	44
E09000032	Wandsworth	Greater London	London	ENG	100.3	38.1	67.2	259	103	362	86	34	121	159	211	164
E09000033	Westminster	Greater London	London	ENG	78.7	32.4	54.6	190	84	274	63	28	91	238	302	134
E08000001	Bolton	Greater Manchester	North West	ENG	147.4	69.5	107.6	533	262	795	178	87	265	14	26	42
E08000002	Bury	Greater Manchester	North West	ENG	113.7	53.2	82.6	282	141	423	94	47	141	75	106	102
E08000003	Manchester	Greater Manchester	North West	ENG	173.4	81.0	127.3	793	350	1,143	264	117	381	1	2	2
E08000004	Oldham	Greater Manchester	North West	ENG	139.8	67.1	102.4	391	198	589	130	66	196	20	32	24
E08000005	Rochdale	Greater Manchester	North West	ENG	149.1	66.5	107.0	408	192	600	136	64	200	16	28	17
E08000006	Salford	Greater Manchester	North West	ENG	136.8	55.1	96.1	388	154	542	129	51	181	30	49	20
E08000007	Stockport	Greater Manchester	North West	ENG	104.0	41.0	71.6	408	170	578	136	57	193	129	178	145
E08000008	Tameside	Greater Manchester	North West	ENG	136.8	70.5	103.2	409	217	626	136	72	209	17	29	22
E08000009	Trafford	Greater Manchester	North West	ENG	108.0	44.9	75.6	310	137	447	103	46	149	114	158	201
E08000010	Wigan	Greater Manchester	North West	ENG	124.4	60.0	91.7	568	283	851	189	94	284	39	62	91
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	76.8	42.0	59.0	178	103	281	59	34	94	215	278	234
E07000085	East Hampshire	Hampshire	South East	ENG	59.6	24.8	41.6	112	51	163	37	17	54	293	358	266
E07000086	Eastleigh	Hampshire	South East	ENG	72.1	30.8	50.6	128	59	187	43	20	62	263	327	270
E07000087	Fareham	Hampshire	South East	ENG	68.2	34.3	50.5	117	65	182	39	22	61	266	330	280
E07000088	Gosport	Hampshire	South East	ENG	113.4	43.8	77.6	134	54	188	45	18	63	102	140	121
E07000089	Hart	Hampshire	South East	ENG	54.5	30.2	41.9	70	42	112	23	14	37	292	357	296
E07000090	Havant	Hampshire	South East	ENG	91.7	33.3	61.4	171	66	237	57	22	79	197	259	124
E07000091	New Forest	Hampshire	South East	ENG	67.0	25.9	45.5	200	83	283	67	28	94	282	347	230
E06000044	Portsmouth	Hampshire	South East	ENG	125.6	55.0	89.5	285	130	415	95	43	138	47	74	54
E07000092	Rushmoor	Hampshire	South East	ENG	86.6	45.8	62.0	97	44	141	32	15	47	193	254	186
E06000045	Southampton	Hampshire	South East	ENG	115.4	58.4	86.7	297	151	448	99	50	149	56	85	55
E07000093	Test Valley	Hampshire	South East	ENG	79.6	28.6	53.5	144	56	200	48	19	67	243	307	240
E07000094	Winchester	Hampshire	South East	ENG	67.9	20.4	42.6	116	35	151	39	12	50	290	355	274
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	89.7	44.2	66.4	271	138	409	90	46	136	162	215	129
E07000095	Broxbourne	Hertfordshire	East of England	ENG	101.2	42.4	70.2	117	54	171	39	18	57	140	190	142
E07000096	Dacorum	Hertfordshire	East of England	ENG	92.8	33.0	61.6	176	67	243	59	22	81	196	257	229
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	80.1	23.1	50.9	158	48	206	53	16	69	262	326	288
E07000098	Hertsmere	Hertfordshire	East of England	ENG	80.8	32.3	55.1	104	46	150	35	15	50	236	300	214
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	80.9	37.7	58.5	139	69	208	46	23	69	218	281	254
E07000240	St Albans	Hertfordshire	East of England	ENG	73.8	30.6	51.3	129	58	187	43	19	62	258	322	287
E07000243	Stevenage	Hertfordshire	East of England	ENG	90.6	41.0	65.5	92	43	135	31	14	45	170	227	111
E07000102	Three Rivers	Hertfordshire	East of England	ENG	81.9	24.2	49.4	97	24	121	32	8	40	269	333	273
E07000103	Watford	Hertfordshire	East of England	ENG	100.4	37.0	65.6	98	33	131	33	11	44	168	225	185

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2019/21			Average number of annual prem CVD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	84.6	44.0	63.9	110	61	171	37	20	57	180	238	202
E06000046	Isle of Wight	Isle of Wight	South East	ENG	107.9	50.2	78.0	260	131	391	87	44	130	99	137	78
E07000105	Ashford	Kent	South East	ENG	90.6	42.8	66.1	159	79	238	53	26	79	166	221	143
E07000106	Canterbury	Kent	South East	ENG	92.1	34.5	61.9	192	82	274	64	27	91	194	255	176
E07000107	Dartford	Kent	South East	ENG	94.6	44.0	68.6	112	55	167	37	18	56	148	199	133
E07000108	Dover	Kent	South East	ENG	88.2	42.7	65.0	161	83	244	54	28	81	175	232	101
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	98.0	49.6	73.3	169	91	260	56	30	87	119	166	83
E07000109	Gravesham	Kent	South East	ENG	102.0	42.8	71.4	131	59	190	44	20	63	130	179	109
E07000110	Maidstone	Kent	South East	ENG	86.5	36.0	60.6	196	87	283	65	29	94	204	266	174
E06000035	Medway	Kent	South East	ENG	115.8	44.2	79.1	393	158	551	131	53	184	90	128	92
E07000111	Sevenoaks	Kent	South East	ENG	75.8	29.9	51.9	125	54	179	42	18	60	255	319	239
E07000113	Swale	Kent	South East	ENG	105.5	45.8	75.1	216	99	315	72	33	105	116	162	64
E07000114	Thanet	Kent	South East	ENG	104.1	55.2	78.4	216	128	344	72	43	115	96	134	37
E07000115	Tonbridge and Malling	Kent	South East	ENG	91.1	31.3	60.3	158	57	215	53	19	72	207	269	224
E07000116	Tunbridge Wells	Kent	South East	ENG	72.5	34.5	52.9	111	56	167	37	19	56	249	313	256
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	154.3	72.8	113.3	272	129	401	91	43	134	8	14	15
E06000009	Blackpool	Lancashire	North West	ENG	175.5	75.7	125.7	351	152	503	117	51	168	2	3	1
E07000117	Burnley	Lancashire	North West	ENG	154.4	78.3	115.4	185	97	282	62	32	94	3	7	10
E07000118	Chorley	Lancashire	North West	ENG	103.4	50.7	77.0	179	89	268	60	30	89	105	145	180
E07000119	Fylde	Lancashire	North West	ENG	91.0	37.8	63.8	127	55	182	42	18	61	181	239	190
E07000120	Hyndburn	Lancashire	North West	ENG	151.7	71.2	110.9	161	78	239	54	26	80	10	17	19
E07000121	Lancaster	Lancashire	North West	ENG	125.5	45.2	84.1	241	95	336	80	32	112	68	99	108
E07000122	Pendle	Lancashire	North West	ENG	131.6	64.8	97.8	163	82	245	54	27	82	28	45	31
E07000123	Preston	Lancashire	North West	ENG	149.6	67.5	108.7	245	111	356	82	37	119	11	20	46
E07000124	Ribble Valley	Lancashire	North West	ENG	88.2	55.1	61.2	87	36	123	29	12	41	199	261	262
E07000125	Rossendale	Lancashire	North West	ENG	121.1	60.9	90.6	123	63	186	41	21	62	40	66	89
E07000126	South Ribble	Lancashire	North West	ENG	103.4	43.4	72.5	166	76	242	55	25	81	126	174	200
E07000127	West Lancashire	Lancashire	North West	ENG	112.4	53.8	82.0	184	95	279	61	32	93	78	111	169
E07000128	Wyre	Lancashire	North West	ENG	130.4	50.7	89.2	242	100	342	81	33	114	50	78	146
E07000129	Blaby	Leicestershire	East Midlands	ENG	80.8	36.5	58.0	114	55	169	38	18	56	224	287	264
E07000130	Charnwood	Leicestershire	East Midlands	ENG	99.2	42.4	70.4	233	104	337	78	35	112	138	187	231
E07000131	Harborough	Leicestershire	East Midlands	ENG	81.6	33.1	57.0	116	51	167	39	17	56	228	291	289
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	83.2	36.5	59.4	142	65	207	47	22	69	210	273	225
E06000016	Leicester	Leicestershire	East Midlands	ENG	147.5	68.0	107.3	517	241	758	172	80	253	15	27	23
E07000133	Melton	Leicestershire	East Midlands	ENG	86.8	40.0	61.8	73	32	105	24	11	35	195	256	237
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	91.8	38.2	65.0	139	59	198	46	20	66	176	233	209
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	95.9	44.7	69.2	72	37	109	24	12	36	142	193	233
E07000136	Boston	Lincolnshire	East Midlands	ENG	120.4	53.4	86.3	117	54	171	39	18	57	57	86	80
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	126.6	70.4	97.8	340	198	538	113	66	179	26	43	32
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	133.9	83.8	108.4	147	94	241	49	31	80	12	23	67
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	119.4	60.6	89.4	264	140	404	88	47	135	48	75	65
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	90.6	38.2	63.4	162	74	236	54	25	79	183	242	253
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	121.0	52.2	86.2	308	135	443	103	45	148	60	89	113
E07000140	South Holland	Lincolnshire	East Midlands	ENG	105.5	44.8	74.6	155	69	224	52	23	75	117	163	136
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	100.3	32.1	65.0	218	76	294	73	25	98	177	234	227
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	98.2	36.5	66.8	158	61	219	53	20	73	161	213	137
E08000011	Knowsley	Merseyside	North West	ENG	142.8	76.9	108.1	274	162	436	91	54	145	13	24	3
E08000012	Liverpool	Merseyside	North West	ENG	143.0	64.6	102.8	786	377	1,163	262	126	388	19	31	4

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2019/21			Average number of annual prem CVD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E08000014	Sefton	Merseyside	North West	ENG	122.9	48.5	84.1	491	212	703	164	71	234	67	98	86
E08000013	St. Helens	Merseyside	North West	ENG	141.1	64.9	102.1	360	173	533	120	58	178	21	33	39
E08000015	Wirral	Merseyside	North West	ENG	108.9	48.3	77.4	503	241	744	168	80	248	103	143	75
E07000143	Breckland	Norfolk	East of England	ENG	85.8	34.0	59.2	189	81	270	63	27	90	211	274	116
E07000144	Broadland	Norfolk	East of England	ENG	74.3	29.7	51.1	155	69	224	52	23	75	260	324	244
E07000145	Great Yarmouth	Norfolk	East of England	ENG	130.7	49.1	89.2	201	79	280	67	26	93	49	77	25
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	85.3	41.3	62.5	200	107	307	67	36	102	188	247	76
E07000147	North Norfolk	Norfolk	East of England	ENG	76.6	36.8	56.2	156	80	236	52	27	79	231	295	95
E07000148	Norwich	Norfolk	East of England	ENG	132.8	55.8	93.0	193	87	280	64	29	93	36	59	60
E07000149	South Norfolk	Norfolk	East of England	ENG	69.2	27.3	47.6	151	63	214	50	21	71	278	343	219
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	96.7	43.0	69.1	451	214	665	150	71	222	146	197	148
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	94.6	41.7	67.6	506	233	739	169	78	246	156	208	178
E06000057	Northumberland	Northumberland	North East	ENG	97.3	42.8	69.1	508	243	751	169	81	250	144	195	122
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	104.4	68.0	85.9	182	123	305	61	41	102	62	91	59
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	104.0	54.1	78.6	186	99	285	62	33	95	95	133	105
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	96.0	46.6	70.5	152	77	229	51	26	76	137	186	213
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	93.7	40.6	66.3	157	71	228	52	24	76	163	218	199
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	114.3	51.3	82.3	174	80	254	58	27	85	76	108	56
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	94.4	40.9	67.1	173	79	252	58	26	84	160	212	140
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	152.9	76.4	114.4	459	232	691	153	77	230	5	9	11
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	77.1	37.5	52.7	130	52	182	43	17	61	251	315	294
E07000177	Cherwell	Oxfordshire	South East	ENG	80.9	36.3	58.1	159	75	234	53	25	78	223	286	211
E07000178	Oxford	Oxfordshire	South East	ENG	94.7	43.4	68.0	128	65	193	43	22	64	152	203	183
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	63.5	26.6	44.4	126	56	182	42	19	61	286	351	284
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	64.4	27.2	45.5	120	51	171	40	17	57	283	348	286
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	67.8	28.2	47.3	107	48	155	36	16	52	280	345	282
E06000017	Rutland	Rutland	East Midlands	ENG	54.4	*	36.8	35	12	47	12	4	16	294	359	279
E06000051	Shropshire	Shropshire	West Midlands	ENG	93.2	34.7	63.3	477	192	669	159	64	223	184	243	157
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	122.5	55.7	88.1	283	136	419	94	45	140	53	82	94
E06000022	Bath and North East Somerset	Somerset	South West	ENG	79.5	28.3	53.0	190	73	263	63	24	88	248	312	257
E06000024	North Somerset	Somerset	South West	ENG	89.9	37.3	62.6	279	131	410	93	44	137	186	245	208
E06000066	Somerset	Somerset	South West	ENG	83.3	36.2	59.0	733	342	1,075	244	114	358	213	276	139
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	102.8	56.0	79.1	142	80	222	47	27	74	89	126	120
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	102.9	43.6	73.1	169	72	241	56	24	80	120	167	150
E07000194	Lichfield	Staffordshire	West Midlands	ENG	78.9	43.0	60.3	126	73	199	42	24	66	206	268	235
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	116.3	42.3	78.7	206	79	285	69	26	95	93	131	141
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	101.1	30.2	64.8	180	55	235	60	18	78	179	236	220
E07000197	Stafford	Staffordshire	West Midlands	ENG	88.1	31.0	59.1	181	65	246	60	22	82	212	275	222
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	82.0	38.3	59.8	134	66	200	45	22	67	208	270	195
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	135.9	57.1	96.3	437	187	624	146	62	208	29	46	12
E07000199	Tamworth	Staffordshire	West Midlands	ENG	89.8	52.6	70.7	94	59	153	31	20	51	136	185	119
E07000200	Babergh	Suffolk	East of England	ENG	78.3	27.6	52.0	117	43	160	39	14	53	254	318	203
E07000244	East Suffolk	Suffolk	East of England	ENG	92.0	45.0	67.7	371	194	565	124	65	188	155	207	151
E07000202	Ipswich	Suffolk	East of England	ENG	98.0	42.3	69.6	162	72	234	54	24	78	141	191	69
E07000203	Mid Suffolk	Suffolk	East of England	ENG	63.2	32.0	47.4	106	55	161	35	18	54	279	344	221
E07000245	West Suffolk	Suffolk	East of England	ENG	79.6	32.8	55.5	191	85	276	64	28	92	235	299	168
E07000207	Elmbridge	Surrey	South East	ENG	70.6	26.1	47.2	120	49	169	40	16	56	281	346	291
E07000208	Epsom and Ewell	Surrey	South East	ENG	63.5	35.8	43.6	63	28	91	21	9	30	288	353	281

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2019/21			Average number of annual prem CVD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E07000209	Guildford	Surrey	South East	ENG	65.1	34.3	49.3	112	62	174	37	21	58	271	335	277
E07000210	Mole Valley	Surrey	South East	ENG	77.4	24.3	48.5	100	29	129	33	10	43	273	337	275
E07000211	Reigate and Banstead	Surrey	South East	ENG	77.2	34.2	55.1	147	68	215	49	23	72	237	301	260
E07000212	Runnymede	Surrey	South East	ENG	98.2	38.7	65.5	101	37	138	34	12	46	169	226	246
E07000213	Spelthorne	Surrey	South East	ENG	107.0	45.1	75.5	136	59	195	45	20	65	115	160	192
E07000214	Surrey Heath	Surrey	South East	ENG	71.1	26.7	48.4	84	34	118	28	11	39	274	338	290
E07000215	Tandridge	Surrey	South East	ENG	82.9	32.2	56.6	99	41	140	33	14	47	229	293	242
E07000216	Waverley	Surrey	South East	ENG	65.4	24.3	44.2	112	47	159	37	16	53	287	352	293
E07000217	Woking	Surrey	South East	ENG	93.4	31.1	62.0	118	39	157	39	13	52	192	253	263
E08000037	Gateshead	Tyne & Wear	North East	ENG	125.0	54.1	88.6	337	154	491	112	51	164	51	80	53
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	124.7	55.9	89.9	400	185	585	133	62	195	43	70	70
E08000022	North Tyneside	Tyne & Wear	North East	ENG	113.5	48.1	79.4	331	154	485	110	51	162	87	124	123
E08000023	South Tyneside	Tyne & Wear	North East	ENG	129.1	52.5	89.6	274	121	395	91	40	132	46	73	26
E08000024	Sunderland	Tyne & Wear	North East	ENG	128.9	55.1	90.6	496	230	726	165	77	242	41	67	33
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	107.3	47.4	76.7	105	48	153	35	16	51	106	147	147
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	130.6	57.2	93.1	229	105	334	76	35	111	34	57	98
E07000220	Rugby	Warwickshire	West Midlands	ENG	115.9	36.9	75.9	164	53	217	55	18	72	112	155	212
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	74.9	34.8	54.2	154	79	233	51	26	78	241	305	245
E07000222	Warwick	Warwickshire	West Midlands	ENG	81.5	42.0	61.1	146	80	226	49	27	75	200	262	249
E08000025	Birmingham	West Midlands	West Midlands	ENG	139.0	59.3	98.0	1,546	685	2,231	515	228	744	25	42	7
E08000026	Coventry	West Midlands	West Midlands	ENG	138.7	48.9	93.0	500	179	679	167	60	226	35	58	72
E08000027	Dudley	West Midlands	West Midlands	ENG	110.3	47.8	78.4	473	214	687	158	71	229	97	135	99
E08000028	Sandwell	West Midlands	West Midlands	ENG	158.4	71.8	114.4	583	269	852	194	90	284	6	10	6
E08000029	Solihull	West Midlands	West Midlands	ENG	86.0	32.8	58.5	249	104	353	83	35	118	220	283	196
E08000030	Walsall	West Midlands	West Midlands	ENG	129.4	67.4	97.8	436	237	673	145	79	224	27	44	28
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	150.5	73.6	111.3	460	232	692	153	77	231	9	16	18
E07000223	Adur	West Sussex	South East	ENG	93.9	41.3	66.1	84	42	126	28	14	42	165	220	154
E07000224	Arun	West Sussex	South East	ENG	110.9	38.2	72.6	277	113	390	92	38	130	123	171	144
E07000225	Chichester	West Sussex	South East	ENG	77.7	30.9	52.9	148	66	214	49	22	71	250	314	204
E07000226	Crawley	West Sussex	South East	ENG	101.7	45.3	72.5	127	59	186	42	20	62	125	173	127
E07000227	Horsham	West Sussex	South East	ENG	71.1	25.7	47.6	153	60	213	51	20	71	277	341	271
E07000228	Mid Sussex	West Sussex	South East	ENG	66.2	25.5	45.0	136	57	193	45	19	64	285	350	292
E07000229	Worthing	West Sussex	South East	ENG	85.8	40.3	62.2	132	70	202	44	23	67	190	250	161
E06000030	Swindon	Wiltshire	South West	ENG	103.8	43.0	73.0	295	124	419	98	41	140	122	170	162
E06000054	Wiltshire	Wiltshire	South West	ENG	75.8	33.2	53.9	550	255	805	183	85	268	242	306	223
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	70.7	27.1	48.4	102	41	143	34	14	48	275	339	255
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	76.4	33.0	54.3	104	46	150	35	15	50	240	304	181
E07000236	Redditch	Worcestershire	West Midlands	ENG	110.9	55.9	82.7	129	68	197	43	23	66	74	105	114
E07000237	Worcester	Worcestershire	West Midlands	ENG	98.3	44.5	71.0	125	58	183	42	19	61	133	182	149
E07000238	Wychavon	Worcestershire	West Midlands	ENG	94.1	37.4	65.1	195	82	277	65	27	92	174	231	179
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	111.6	43.4	76.5	176	71	247	59	24	82	107	148	107
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	94.3	36.9	64.8	540	223	763	180	74	254	178	235	207
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	165.2	64.2	114.5	512	201	713	171	67	238	4	8	9
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	114.9	66.5	89.7	193	121	314	64	40	105	45	72	16
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	84.3	35.6	58.8	832	368	1,200	277	123	400	216	279	210
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	112.6	52.6	81.3	225	117	342	75	39	114	82	118	62
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	92.3	40.2	65.2	232	109	341	77	36	114	172	229	259
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	137.9	65.8	101.3	473	232	705	158	77	235	22	34	38

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2019/21			Average number of annual prem CVD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	123.6	54.9	88.5	522	243	765	174	81	255	52	81	40
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	130.2	60.9	94.9	470	229	699	157	76	233	32	53	49
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	106.2	47.4	76.1	685	322	1,007	228	107	336	110	152	88
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	145.9	62.1	103.1	898	398	1,296	299	133	432	18	30	21
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	119.0	54.8	86.2	340	166	506	113	55	169	59	88	73
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	110.6	57.6	83.6	621	336	957	207	112	319	69	100	82
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	111.4	46.5	77.9	981	440	1,421	327	147	474	100	138	85
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	125.2	56.5	90.2	597	280	877	199	93	292	42	69	61
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	100.3	33.8	66.0	176	64	240	59	21	80	6	223	10
N09000011	Ards and North Down		Northern Ireland	NI	82.8	42.7	62.1	194	109	303	65	36	101	9	251	9
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	85.4	42.3	63.7	220	113	333	73	38	111	8	240	7
N09000003	Belfast		Northern Ireland	NI	124.1	58.7	90.2	457	234	691	152	78	230	1	68	4
N09000004	Causeway Coast and Glens		Northern Ireland	NI	86.4	41.4	64.0	167	81	248	56	27	83	7	237	5
N09000005	Derry City and Strabane		Northern Ireland	NI	106.9	45.1	75.6	198	86	284	66	29	95	2	157	1
N09000006	Fermanagh and Omagh		Northern Ireland	NI	98.9	46.8	73.1	153	72	225	51	24	75	4	168	2
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	64.8	30.9	47.6	117	59	176	39	20	59	11	342	11
N09000008	Mid and East Antrim		Northern Ireland	NI	102.8	49.0	75.3	190	97	287	63	32	96	3	161	8
N09000009	Mid Ulster		Northern Ireland	NI	87.7	44.5	66.4	150	76	226	50	25	75	5	216	6
N09000010	Newry, Mourne and Down		Northern Ireland	NI	86.5	33.1	59.6	191	76	267	64	25	89	10	272	3
S12000033	Aberdeen City		Scotland	SCO	127.0	61.3	93.7	348	172	520	116	57	173	14	56	26
S12000034	Aberdeenshire		Scotland	SCO	92.3	56.3	74.1	358	223	581	119	74	194	25	164	30
S12000041	Angus		Scotland	SCO	101.5	58.4	79.1	187	113	300	62	38	100	23	127	20
S12000035	Argyll and Bute		Scotland	SCO	132.5	48.3	89.2	192	73	265	64	24	88	18	76	19
S12000036	City of Edinburgh		Scotland	SCO	118.0	48.5	82.2	687	301	988	229	100	329	21	109	29
S12000005	Clackmannanshire		Scotland	SCO	166.4	77.8	120.7	127	65	192	42	22	64	2	4	8
S12000006	Dumfries and Galloway		Scotland	SCO	128.3	55.5	90.9	317	146	463	106	49	154	16	64	12
S12000042	Dundee City		Scotland	SCO	160.0	72.8	114.3	281	142	423	94	47	141	5	11	6
S12000008	East Ayrshire		Scotland	SCO	157.0	63.9	108.7	278	123	401	93	41	134	7	19	7
S12000045	East Dunbartonshire		Scotland	SCO	89.0	37.0	61.5	139	66	205	46	22	68	32	258	31
S12000010	East Lothian		Scotland	SCO	95.8	45.6	69.4	144	77	221	48	26	74	28	192	22
S12000011	East Renfrewshire		Scotland	SCO	99.9	44.0	70.2	126	63	189	42	21	63	27	189	32
S12000014	Falkirk		Scotland	SCO	131.2	71.9	100.6	296	173	469	99	58	156	9	36	16
S12000047	Fife		Scotland	SCO	131.1	64.1	96.3	700	372	1,072	233	124	357	12	47	17
S12000049	Glasgow City		Scotland	SCO	190.4	87.4	136.4	1,264	628	1,892	421	209	631	1	1	2
S12000017	Highland		Scotland	SCO	121.5	51.9	85.8	444	201	645	148	67	215	19	93	18
S12000018	Inverclyde		Scotland	SCO	150.7	69.9	107.8	169	89	258	56	30	86	8	25	4
S12000019	Midlothian		Scotland	SCO	101.8	53.0	76.0	127	72	199	42	24	66	24	153	14
S12000020	Moray		Scotland	SCO	106.9	57.9	81.6	150	87	237	50	29	79	22	116	23
S12000013	Na h-Eileanan Siar		Scotland	SCO	140.1	40.9	90.7	65	19	84	22	6	28	17	65	10
S12000021	North Ayrshire		Scotland	SCO	154.5	77.0	113.3	313	177	490	104	59	163	6	12	3
S12000050	North Lanarkshire		Scotland	SCO	162.4	78.8	118.4	721	386	1,107	240	129	369	4	6	5
S12000023	Orkney Islands		Scotland	SCO	101.0	24.2	62.3	36	9	45	12	3	15	31	249	24
S12000048	Perth and Kinross		Scotland	SCO	102.2	43.0	71.7	239	107	346	80	36	115	26	177	28
S12000038	Renfrewshire		Scotland	SCO	143.1	61.3	99.9	345	164	509	115	55	170	10	38	9
S12000026	Scottish Borders		Scotland	SCO	91.8	42.3	66.6	180	86	266	60	29	89	29	214	21
S12000027	Shetland Islands		Scotland	SCO	104.0	26.3	66.3	37	9	46	12	3	15	30	217	25
S12000028	South Ayrshire		Scotland	SCO	135.2	59.4	95.3	247	120	367	82	40	122	13	52	13
S12000029	South Lanarkshire		Scotland	SCO	136.3	66.1	99.7	617	327	944	206	109	315	11	40	11

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2019/21			Average number of annual prem CVD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
S12000030	Stirling		Scotland	SCO	109.8	61.6	84.8	141	84	225	47	28	75	20	95	27
S12000039	West Dunbartonshire		Scotland	SCO	175.4	69.0	119.0	215	94	309	72	31	103	3	5	1
S12000040	West Lothian		Scotland	SCO	120.8	63.0	90.9	287	161	448	96	54	149	15	63	15
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	119.5	47.9	82.4	228	104	332	76	35	111	11	107	17
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	127.5	55.9	95.7	201	92	304	67	31	101	8	51	9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	104.1	52.0	81.8	237	124	378	79	41	126	12	113	20
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	114.7	56.3	88.7	220	112	344	73	37	115	10	79	14
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	107.7	48.8	79.8	317	156	483	106	52	161	14	122	8
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	110.9	47.3	76.2	127	60	182	42	20	61	18	149	16
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	101.6	48.7	77.5	211	108	325	70	36	108	16	142	12
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	148.8	58.0	108.6	146	60	217	49	20	72	4	22	1
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	134.6	57.1	96.2	333	151	490	111	50	163	7	48	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	78.1	36.4	56.8	120	61	182	40	20	61	22	292	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	157.4	62.1	109.0	298	124	424	99	41	141	2	18	5
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	129.3	73.6	98.1	166	103	263	55	34	88	6	41	7
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	120.7	34.0	77.6	220	65	287	73	22	96	15	141	18
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	85.0	69.2	76.8	102	83	185	34	28	62	17	146	15
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	114.2	49.1	81.5	231	110	343	77	37	114	13	117	10
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	160.2	64.5	111.8	126	56	183	42	19	61	1	15	2
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	128.8	66.4	100.4	422	229	673	141	76	224	5	37	4
W06000023	Powys	Powys	Wales / Cymru	WAL	88.0	36.2	65.9	211	90	313	70	30	104	21	224	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	112.4	40.6	75.6	431	163	595	144	54	198	19	159	11
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	97.3	36.4	67.7	183	77	269	61	26	90	20	206	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	154.1	66.1	108.6	312	144	456	104	48	152	3	21	3
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	133.7	57.2	93.9	420	197	618	140	66	206	9	54	13

Notes: ICD-10 codes I00-I99. Directly age-standardised using the 2013 European Standard Population. Some of the data for Wales has been suppressed.
Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area
UK local authorities correct April 2023 - ASDRs for Somerset, North Yorkshire, Cumberland and Westmorland & Furness are provisional.
* indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)
Totals for male & female deaths may not equal total due to suppression of age-band cohorts in Nomis data - England & Wales only

PLEASE NOTE following the 2021 census, OHID's pre-2021 England premature death rates are due to be republished later in 2023, which may affect the values here

Citation: BHF (2023) Analysis of official UK mortality data

Source: England: Number of deaths and mortality rates are taken from OHID's Mortality Profile

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

Wales: Number of deaths are taken from Nomis Mortality Statistics, mortality rates calculated by the BHF

<https://www.nomisweb.co.uk/datasets/mortsa>

Scotland: Mortality rates calculated in partnership with NRS (National Records of 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://statswales.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 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2019/21			Average number of annual CHD deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E06000055	Bedford	Bedfordshire	East of England	ENG	122.6	49.5	82.9	273	142	415	91	47	138	193	258	152
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	119.3	54.6	84.3	431	242	673	144	81	224	186	251	247
E06000032	Luton	Bedfordshire	East of England	ENG	152.4	73.5	110.0	309	181	490	103	60	163	59	97	51
E06000036	Bracknell Forest	Berkshire	South East	ENG	125.9	35.0	75.4	165	58	223	55	19	74	245	310	265
E06000038	Reading	Berkshire	South East	ENG	138.1	54.4	92.7	215	106	321	72	35	107	141	201	132
E06000039	Slough	Berkshire	South East	ENG	177.7	88.6	129.0	211	120	331	70	40	110	19	31	74
E06000037	West Berkshire	Berkshire	South East	ENG	107.2	43.6	72.8	230	119	349	77	40	116	261	326	272
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	117.2	51.5	81.1	241	147	388	80	49	129	204	269	285
E06000041	Wokingham	Berkshire	South East	ENG	96.5	37.3	64.2	210	107	317	70	36	106	283	348	295
E06000023	Bristol, City of	Bristol	South West	ENG	131.0	52.5	87.8	564	300	864	188	100	288	168	231	77
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	113.5	48.1	76.9	810	488	1,298	270	163	433	237	302	268
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	109.0	52.0	77.0	283	176	459	94	59	153	236	301	165
E07000008	Cambridge	Cambridgeshire	East of England	ENG	97.0	43.9	68.2	120	72	192	40	24	64	278	343	198
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	129.7	50.9	83.6	156	84	240	52	28	80	191	256	250
E07000010	Fenland	Cambridgeshire	East of England	ENG	152.5	61.4	102.0	239	126	365	80	42	122	99	149	50
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	123.4	52.2	84.0	299	163	462	100	54	154	190	255	236
E06000031	Peterborough	Cambridgeshire	East of England	ENG	147.2	68.6	104.5	316	191	507	105	64	169	89	137	52
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	120.0	51.1	82.6	265	156	421	88	52	140	196	261	283
E06000049	Cheshire East	Cheshire	North West	ENG	133.5	51.2	88.1	812	412	1,224	271	137	408	167	230	217
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	127.2	55.8	88.2	651	368	1,019	217	123	340	165	228	170
E06000006	Halton	Cheshire	North West	ENG	170.8	68.4	114.8	273	131	404	91	44	135	40	72	41
E06000007	Warrington	Cheshire	North West	ENG	159.9	62.5	105.9	434	215	649	145	72	216	79	124	163
E06000052	Cornwall	Cornwall	South West	ENG	152.4	65.8	104.8	1,426	825	2,251	475	275	750	87	135	79
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232
E06000047	County Durham	County Durham	North East	ENG	164.2	83.0	119.8	1,191	760	1,951	397	253	650	30	55	68
E06000005	Darlington	County Durham	North East	ENG	133.1	65.1	95.4	197	127	324	66	42	108	126	184	100
E06000001	Hartlepool	County Durham	North East	ENG	178.3	64.0	113.9	218	102	320	73	34	107	44	78	27
E06000004	Stockton-on-Tees	County Durham	North East	ENG	147.9	71.9	106.7	376	228	604	125	76	201	77	121	112
E06000063	Cumberland	Cumbria	North West	ENG	158.9	64.5	107.0	673	356	1,029	224	119	343	74	117	103
E06000064	Westmorland and Furness	Cumbria	North West	ENG	133.6	56.2	91.2	512	292	804	171	97	268	154	215	160
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	146.9	62.8	101.0	276	154	430	92	51	143	102	153	158
E07000033	Bolsover	Derbyshire	East Midlands	ENG	168.1	62.1	108.0	176	85	261	59	28	87	71	113	57
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	155.2	55.5	99.9	230	112	342	77	37	114	104	156	81
E06000015	Derby	Derbyshire	East Midlands	ENG	171.7	75.3	118.8	513	309	822	171	103	274	31	57	84
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	144.1	44.9	87.1	180	79	259	60	26	86	171	234	248
E07000036	Erewash	Derbyshire	East Midlands	ENG	157.1	65.1	105.6	253	138	391	84	46	130	80	127	159
E07000037	High Peak	Derbyshire	East Midlands	ENG	136.8	60.9	94.5	175	101	276	58	34	92	131	190	193
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	129.6	67.4	96.1	216	136	352	72	45	117	122	179	166
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	139.1	53.0	91.1	180	87	267	60	29	89	155	216	215
E07000040	East Devon	Devon	South West	ENG	117.2	40.8	73.9	353	185	538	118	62	179	250	315	226
E07000041	Exeter	Devon	South West	ENG	142.0	47.5	86.3	199	107	306	66	36	102	176	239	182
E07000042	Mid Devon	Devon	South West	ENG	120.2	49.5	81.3	158	88	246	53	29	82	202	267	155
E07000043	North Devon	Devon	South West	ENG	135.3	50.9	89.3	226	117	343	75	39	114	159	222	117
E06000026	Plymouth	Devon	South West	ENG	150.5	66.2	104.1	503	291	794	168	97	265	94	143	71
E07000044	South Hams	Devon	South West	ENG	98.5	41.5	67.3	161	89	250	54	30	83	280	345	206
E07000045	Teignbridge	Devon	South West	ENG	123.2	49.6	82.4	291	169	460	97	56	153	197	262	175
E06000027	Torbay	Devon	South West	ENG	133.8	51.2	88.2	333	169	502	111	56	167	166	229	48
E07000046	Torridge	Devon	South West	ENG	150.2	63.2	102.1	185	103	288	62	34	96	98	148	66
E07000047	West Devon	Devon	South West	ENG	129.1	45.2	84.3	137	65	202	46	22	67	185	250	130
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	134.0	61.6	94.1	806	527	1,333	269	176	444	134	194	156

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2019/21			Average number of annual CHD deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E06000059	Dorset	Dorset	South West	ENG	119.9	47.8	80.2	898	498	1,396	299	166	465	212	277	187
E06000043	Brighton and Hove	East Sussex	South East	ENG	120.5	46.1	80.2	347	186	533	116	62	178	211	276	131
E07000061	Eastbourne	East Sussex	South East	ENG	105.3	47.7	73.0	187	136	323	62	45	108	259	324	104
E07000062	Hastings	East Sussex	South East	ENG	146.4	71.7	105.1	186	122	308	62	41	103	86	133	14
E07000063	Lewes	East Sussex	South East	ENG	109.2	40.4	71.9	197	116	313	66	39	104	262	327	184
E07000064	Rother	East Sussex	South East	ENG	121.1	46.9	79.2	248	145	393	83	48	131	219	284	126
E07000065	Wealden	East Sussex	South East	ENG	108.2	38.2	68.7	307	154	461	102	51	154	276	341	238
E07000066	Basildon	Essex	East of England	ENG	132.8	60.9	92.1	288	181	469	96	60	156	147	207	106
E07000067	Braintree	Essex	East of England	ENG	119.3	41.2	77.1	254	117	371	85	39	124	234	299	194
E07000068	Brentwood	Essex	East of England	ENG	115.2	48.5	78.5	128	78	206	43	26	69	226	291	269
E07000069	Castle Point	Essex	East of England	ENG	135.7	55.0	90.1	194	106	300	65	35	100	157	220	172
E07000070	Chelmsford	Essex	East of England	ENG	113.7	44.2	74.6	271	139	410	90	46	137	247	312	241
E07000071	Colchester	Essex	East of England	ENG	110.9	51.9	77.6	249	156	405	83	52	135	231	296	173
E07000072	Epping Forest	Essex	East of England	ENG	130.3	49.7	85.7	236	127	363	79	42	121	178	242	191
E07000073	Harlow	Essex	East of England	ENG	161.7	51.8	99.0	151	69	220	50	23	73	107	160	97
E07000074	Maldon	Essex	East of England	ENG	111.5	44.7	76.4	125	63	188	42	21	63	242	307	197
E07000075	Rochford	Essex	East of England	ENG	120.1	43.2	76.9	161	79	240	54	26	80	238	303	267
E06000033	Southend-on-Sea	Essex	East of England	ENG	133.8	56.0	90.4	326	190	516	109	63	172	156	218	115
E07000076	Tendring	Essex	East of England	ENG	132.2	64.2	95.3	380	250	630	127	83	210	127	185	34
E06000034	Thurrock	Essex	East of England	ENG	155.1	56.4	100.0	254	117	371	85	39	124	103	155	110
E07000077	Uttlesford	Essex	East of England	ENG	107.1	42.1	70.1	132	73	205	44	24	68	270	335	276
E07000078	Cheltenham	Gloucestershire	South West	ENG	143.3	59.1	95.4	230	132	362	77	44	121	125	183	228
E07000079	Cotswold	Gloucestershire	South West	ENG	113.9	45.9	77.0	177	100	277	59	33	92	235	300	258
E07000080	Forest of Dean	Gloucestershire	South West	ENG	150.0	65.5	103.5	207	118	325	69	39	108	95	144	135
E07000081	Gloucester	Gloucestershire	South West	ENG	167.6	67.9	112.8	258	139	397	86	46	132	47	82	128
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	105.8	47.4	73.8	398	236	634	133	79	211	251	316	251
E07000082	Stroud	Gloucestershire	South West	ENG	132.2	65.2	93.8	235	155	390	78	52	130	136	196	261
E07000083	Tewkesbury	Gloucestershire	South West	ENG	147.9	49.8	92.6	206	96	302	69	32	101	143	203	243
E09000002	Barking and Dagenham	Greater London	London	ENG	161.5	69.5	110.5	250	133	383	83	44	128	57	93	5
E09000003	Barnet	Greater London	London	ENG	116.5	49.0	79.0	482	279	761	161	93	254	222	287	171
E09000004	Bexley	Greater London	London	ENG	120.3	50.7	80.5	339	213	552	113	71	184	209	274	177
E09000005	Brent	Greater London	London	ENG	142.9	66.4	101.7	437	249	686	146	83	229	100	150	47
E09000006	Bromley	Greater London	London	ENG	110.2	48.2	75.2	448	278	726	149	93	242	246	311	218
E09000007	Camden	Greater London	London	ENG	120.9	48.6	80.3	250	134	384	83	45	128	210	275	125
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189
E09000008	Croydon	Greater London	London	ENG	121.1	54.6	84.6	473	269	742	158	90	247	183	247	96
E09000009	Ealing	Greater London	London	ENG	144.1	58.5	97.7	477	233	710	159	78	237	113	167	87
E09000010	Enfield	Greater London	London	ENG	153.8	54.9	97.7	492	237	729	164	79	243	114	168	58
E09000011	Greenwich	Greater London	London	ENG	155.4	67.6	107.2	345	189	534	115	63	178	73	116	63
E09000012	Hackney	Greater London	London	ENG	164.1	60.2	107.2	271	110	381	90	37	127	72	115	8
E09000013	Hammersmith and Fulham	Greater London	London	ENG	157.3	56.3	98.1	211	104	315	70	35	105	110	163	93
E09000014	Haringey	Greater London	London	ENG	162.0	72.0	112.9	337	179	516	112	60	172	46	81	36
E09000015	Harrow	Greater London	London	ENG	128.0	60.9	91.3	371	233	604	124	78	201	153	214	188
E09000016	Havering	Greater London	London	ENG	119.9	48.9	79.2	376	230	606	125	77	202	220	285	167
E09000017	Hillingdon	Greater London	London	ENG	144.0	59.3	97.7	444	228	672	148	76	224	112	166	138
E09000018	Hounslow	Greater London	London	ENG	157.9	68.1	109.4	384	199	583	128	66	194	62	100	90
E09000019	Islington	Greater London	London	ENG	145.4	62.9	99.5	220	117	337	73	39	112	105	157	29
E09000020	Kensington and Chelsea	Greater London	London	ENG	100.2	29.8	61.4	167	60	227	56	20	76	288	353	118
E09000021	Kingston upon Thames	Greater London	London	ENG	124.9	40.1	76.7	213	97	310	71	32	103	239	304	252
E09000022	Lambeth	Greater London	London	ENG	148.9	46.9	92.2	319	119	438	106	40	146	146	206	43

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2019/21			Average number of annual CHD deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E09000023	Lewisham	Greater London	London	ENG	157.9	62.1	104.1	342	173	515	114	58	172	93	142	35
E09000024	Merton	Greater London	London	ENG	113.4	49.2	77.6	216	125	341	72	42	114	232	297	205
E09000025	Newham	Greater London	London	ENG	161.9	62.8	108.3	357	149	506	119	50	169	68	108	13
E09000026	Redbridge	Greater London	London	ENG	148.5	56.3	98.1	422	203	625	141	68	208	111	164	153
E09000027	Richmond upon Thames	Greater London	London	ENG	97.4	41.8	65.2	206	127	333	69	42	111	282	347	278
E09000028	Southwark	Greater London	London	ENG	126.2	50.0	82.8	248	130	378	83	43	126	194	259	45
E09000029	Sutton	Greater London	London	ENG	118.4	45.8	77.9	264	142	406	88	47	135	229	294	216
E09000030	Tower Hamlets	Greater London	London	ENG	141.6	59.6	97.5	230	105	335	77	35	112	116	170	30
E09000031	Waltham Forest	Greater London	London	ENG	153.3	64.2	104.2	339	176	515	113	59	172	92	141	44
E09000032	Wandsworth	Greater London	London	ENG	124.8	47.7	81.0	275	140	415	92	47	138	205	270	164
E09000033	Westminster	Greater London	London	ENG	92.4	33.9	60.9	209	89	298	70	30	99	290	355	134
E08000001	Bolton	Greater Manchester	North West	ENG	170.9	80.9	123.6	612	342	954	204	114	318	26	48	42
E08000002	Bury	Greater Manchester	North West	ENG	151.3	66.2	104.5	362	205	567	121	68	189	90	138	102
E08000003	Manchester	Greater Manchester	North West	ENG	230.5	110.2	163.9	877	514	1,391	292	171	464	1	2	2
E08000004	Oldham	Greater Manchester	North West	ENG	187.6	93.8	136.9	500	310	810	167	103	270	11	21	24
E08000005	Rochdale	Greater Manchester	North West	ENG	181.6	87.4	129.8	458	277	735	153	92	245	18	30	17
E08000006	Salford	Greater Manchester	North West	ENG	167.1	62.0	110.9	447	197	644	149	66	215	54	90	20
E08000007	Stockport	Greater Manchester	North West	ENG	161.5	65.2	108.7	655	359	1,014	218	120	338	66	104	145
E08000008	Tameside	Greater Manchester	North West	ENG	211.1	105.2	152.9	563	353	916	188	118	305	2	5	22
E08000009	Trafford	Greater Manchester	North West	ENG	159.5	71.9	111.0	461	283	744	154	94	248	53	89	201
E08000010	Wigan	Greater Manchester	North West	ENG	158.1	71.1	110.4	666	359	1,025	222	120	342	58	94	91
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	136.0	60.7	94.9	294	163	457	98	54	152	129	187	234
E07000085	East Hampshire	Hampshire	South East	ENG	109.4	41.0	69.9	212	117	329	71	39	110	271	336	266
E07000086	Eastleigh	Hampshire	South East	ENG	123.8	43.1	78.4	226	110	336	75	37	112	227	292	270
E07000087	Fareham	Hampshire	South East	ENG	116.4	44.1	74.6	218	120	338	73	40	113	248	313	280
E07000088	Gosport	Hampshire	South East	ENG	131.2	54.0	88.8	155	86	241	52	29	80	162	225	121
E07000089	Hart	Hampshire	South East	ENG	90.4	36.5	60.6	123	66	189	41	22	63	292	357	296
E07000090	Havant	Hampshire	South East	ENG	117.0	51.5	80.8	241	144	385	80	48	128	207	272	124
E07000091	New Forest	Hampshire	South East	ENG	111.7	48.5	76.4	407	258	665	136	86	222	241	306	230
E06000044	Portsmouth	Hampshire	South East	ENG	152.4	67.1	105.1	324	195	519	108	65	173	85	132	54
E07000092	Rushmoor	Hampshire	South East	ENG	116.8	52.7	80.1	114	67	181	38	22	60	214	279	186
E06000045	Southampton	Hampshire	South East	ENG	147.5	70.1	105.3	353	222	575	118	74	192	82	129	55
E07000093	Test Valley	Hampshire	South East	ENG	118.9	51.1	81.9	224	131	355	75	44	118	199	264	240
E07000094	Winchester	Hampshire	South East	ENG	106.8	43.5	71.5	199	120	319	66	40	106	263	328	274
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	145.6	64.9	101.2	469	273	742	156	91	247	101	152	129
E07000095	Broxbourne	Hertfordshire	East of England	ENG	122.5	55.1	84.8	148	89	237	49	30	79	181	245	142
E07000096	Dacorum	Hertfordshire	East of England	ENG	112.0	43.9	73.4	211	119	330	70	40	110	254	319	229
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	122.4	44.5	79.3	237	113	350	79	38	117	218	283	288
E07000098	Hertsmere	Hertfordshire	East of England	ENG	110.5	40.0	70.4	148	76	224	49	25	75	268	333	214
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	122.7	49.8	81.8	220	122	342	73	41	114	201	266	254
E07000240	St Albans	Hertfordshire	East of England	ENG	85.5	36.8	58.3	157	95	252	52	32	84	293	358	287
E07000243	Stevenage	Hertfordshire	East of England	ENG	124.2	55.1	86.4	120	75	195	40	25	65	175	238	111
E07000102	Three Rivers	Hertfordshire	East of England	ENG	92.6	37.1	62.3	112	64	176	37	21	59	285	350	273
E07000103	Watford	Hertfordshire	East of England	ENG	119.6	40.4	73.5	106	50	156	35	17	52	253	318	185
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	124.1	51.8	83.4	171	99	270	57	33	90	192	257	202
E06000046	Isle of Wight	Isle of Wight	South East	ENG	146.5	55.8	96.1	385	203	588	128	68	196	123	180	78
E07000105	Ashford	Kent	South East	ENG	108.8	44.5	73.7	189	99	288	63	33	96	252	317	143
E07000106	Canterbury	Kent	South East	ENG	118.1	49.0	79.0	262	166	428	87	55	143	221	286	176
E07000107	Dartford	Kent	South East	ENG	121.9	43.4	78.9	140	65	205	47	22	68	223	288	133
E07000108	Dover	Kent	South East	ENG	130.5	59.0	91.6	242	142	384	81	47	128	152	213	101

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2019/21

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					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2019/21			Average number of annual CHD deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	124.3	51.0	84.0	229	124	353	76	41	118	189	254	83
E07000109	Gravesham	Kent	South East	ENG	133.5	56.0	91.7	176	95	271	59	32	90	151	211	109
E07000110	Maidstone	Kent	South East	ENG	119.8	39.3	74.4	267	120	387	89	40	129	249	314	174
E06000035	Medway	Kent	South East	ENG	153.0	52.0	96.1	463	201	664	154	67	221	121	178	92
E07000111	Sevenoaks	Kent	South East	ENG	106.8	37.9	68.2	190	95	285	63	32	95	277	342	239
E07000113	Swale	Kent	South East	ENG	152.0	49.6	94.8	288	119	407	96	40	136	130	188	64
E07000114	Thanet	Kent	South East	ENG	135.6	59.8	92.1	285	180	465	95	60	155	148	208	37
E07000115	Tonbridge and Malling	Kent	South East	ENG	124.1	35.2	73.0	208	80	288	69	27	96	260	325	224
E07000116	Tunbridge Wells	Kent	South East	ENG	94.2	35.4	62.3	154	83	237	51	28	79	286	351	256
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	199.1	83.2	136.7	314	153	467	105	51	156	12	22	15
E06000009	Blackpool	Lancashire	North West	ENG	207.5	78.7	138.5	419	196	615	140	65	205	10	20	1
E07000117	Burnley	Lancashire	North West	ENG	187.3	103.8	142.4	215	147	362	72	49	121	7	16	10
E07000118	Chorley	Lancashire	North West	ENG	157.0	86.0	118.5	245	164	409	82	55	136	32	58	180
E07000119	Fylde	Lancashire	North West	ENG	116.7	50.6	81.0	177	105	282	59	35	94	206	271	190
E07000120	Hyndburn	Lancashire	North West	ENG	183.0	99.5	138.9	191	124	315	64	41	105	9	19	19
E07000121	Lancaster	Lancashire	North West	ENG	181.3	74.1	120.9	355	193	548	118	64	183	28	52	108
E07000122	Pendle	Lancashire	North West	ENG	176.0	85.6	125.5	205	121	326	68	40	109	24	41	31
E07000123	Preston	Lancashire	North West	ENG	190.8	82.8	133.0	294	158	452	98	53	151	15	27	46
E07000124	Ribble Valley	Lancashire	North West	ENG	118.4	61.2	88.6	121	81	202	40	27	67	164	227	262
E07000125	Rossendale	Lancashire	North West	ENG	182.0	87.6	130.5	167	98	265	56	33	88	17	29	89
E07000126	South Ribble	Lancashire	North West	ENG	144.6	74.4	107.0	234	154	388	78	51	129	75	118	200
E07000127	West Lancashire	Lancashire	North West	ENG	178.6	69.4	116.2	293	155	448	98	52	149	38	66	169
E07000128	Wyre	Lancashire	North West	ENG	172.8	67.0	114.2	353	185	538	118	62	179	43	77	146
E07000129	Blaby	Leicestershire	East Midlands	ENG	119.3	46.3	77.8	164	87	251	55	29	84	230	295	264
E07000130	Charnwood	Leicestershire	East Midlands	ENG	140.3	56.1	93.9	324	170	494	108	57	165	135	195	231
E07000131	Harborough	Leicestershire	East Midlands	ENG	120.6	52.5	82.8	172	97	269	57	32	90	195	260	289
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	139.0	55.3	89.9	219	118	337	73	39	112	158	221	225
E06000016	Leicester	Leicestershire	East Midlands	ENG	180.2	96.7	134.8	564	376	940	188	125	313	13	25	23
E07000133	Melton	Leicestershire	East Midlands	ENG	143.5	54.2	94.2	115	55	170	38	18	57	133	192	237
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	152.6	64.0	102.9	206	111	317	69	37	106	96	145	209
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	129.6	53.4	86.9	112	69	181	37	23	60	174	237	233
E07000136	Boston	Lincolnshire	East Midlands	ENG	166.8	75.5	116.6	164	98	262	55	33	87	36	64	80
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	173.6	83.5	125.4	487	278	765	162	93	255	25	42	32
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	192.2	89.2	133.6	200	130	330	67	43	110	14	26	67
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	183.3	81.5	127.1	412	238	650	137	79	217	20	34	65
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	132.8	57.9	91.8	251	136	387	84	45	129	150	210	253
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	161.2	70.9	111.7	399	226	625	133	75	208	49	85	113
E07000140	South Holland	Lincolnshire	East Midlands	ENG	157.9	74.5	113.7	253	149	402	84	50	134	45	79	136
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	154.5	49.7	95.9	336	145	481	112	48	160	124	182	227
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	156.6	59.5	104.2	248	114	362	83	38	121	91	140	137
E08000011	Knowsley	Merseyside	North West	ENG	165.6	78.0	116.8	301	184	485	100	61	162	35	63	3
E08000012	Liverpool	Merseyside	North West	ENG	169.9	63.9	111.6	877	412	1,289	292	137	430	50	86	4
E08000014	Sefton	Merseyside	North West	ENG	150.2	55.2	96.6	642	341	983	214	114	328	119	174	86
E08000013	St. Helens	Merseyside	North West	ENG	153.9	76.0	111.2	382	234	616	127	78	205	51	87	39
E08000015	Wirral	Merseyside	North West	ENG	141.9	53.5	92.3	666	341	1,007	222	114	336	145	205	75
E07000143	Breckland	Norfolk	East of England	ENG	122.8	53.4	84.5	294	169	463	98	56	154	184	248	116
E07000144	Broadland	Norfolk	East of England	ENG	113.5	50.2	78.3	261	160	421	87	53	140	228	293	244
E07000145	Great Yarmouth	Norfolk	East of England	ENG	164.4	55.2	104.7	268	113	381	89	38	127	88	136	25
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	118.8	55.5	84.1	307	192	499	102	64	166	188	253	76
E07000147	North Norfolk	Norfolk	East of England	ENG	128.0	56.7	88.8	302	184	486	101	61	162	163	226	95

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2019/21			Average number of annual CHD deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E07000148	Norwich	Norfolk	East of England	ENG	162.2	67.3	110.5	245	142	387	82	47	129	56	92	60
E07000149	South Norfolk	Norfolk	East of England	ENG	109.3	50.6	77.1	254	159	413	85	53	138	233	298	219
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	122.4	44.9	80.0	536	249	785	179	83	262	215	280	148
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	124.5	52.1	85.8	629	321	950	210	107	317	177	241	178
E06000057	Northumberland	Northumberland	North East	ENG	135.5	51.3	89.2	713	345	1,058	238	115	353	161	224	122
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	145.2	74.1	106.1	240	153	393	80	51	131	78	123	59
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	145.0	75.7	108.8	262	165	427	87	55	142	65	103	105
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	151.5	67.3	105.2	246	143	389	82	48	130	83	130	213
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	148.1	59.1	98.5	239	129	368	80	43	123	108	161	199
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	167.9	61.2	109.0	244	112	356	81	37	119	64	102	56
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	137.6	60.5	96.5	255	141	396	85	47	132	120	176	140
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	206.3	88.7	142.9	578	317	895	193	106	298	6	15	11
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	134.5	49.2	87.1	235	122	357	78	41	119	170	233	294
E07000177	Cherwell	Oxfordshire	South East	ENG	100.9	45.8	70.8	198	116	314	66	39	105	266	331	211
E07000178	Oxford	Oxfordshire	South East	ENG	114.9	44.8	76.0	157	85	242	52	28	81	244	309	183
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	95.9	37.9	63.8	200	109	309	67	36	103	284	349	284
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	104.6	39.5	69.0	202	104	306	67	35	102	275	340	286
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	117.0	39.0	73.3	199	91	290	66	30	97	255	320	282
E06000017	Rutland	Rutland	East Midlands	ENG	113.3	41.8	73.1	78	39	117	26	13	39	257	322	279
E06000051	Shropshire	Shropshire	West Midlands	ENG	118.5	47.6	80.1	646	341	987	215	114	329	213	278	157
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	172.0	74.5	118.0	360	194	554	120	65	185	33	60	94
E06000022	Bath and North East Somerset	Somerset	South West	ENG	126.1	41.2	78.8	320	149	469	107	50	156	224	289	257
E06000024	North Somerset	Somerset	South West	ENG	107.1	46.0	73.0	369	219	588	123	73	196	258	323	208
E06000066	Somerset	Somerset	South West	ENG	119.8	45.3	78.6	1,126	587	1,713	375	196	571	225	290	139
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	155.5	81.4	115.0	204	137	341	68	46	114	39	71	120
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	149.2	63.4	102.4	236	132	368	79	44	123	97	146	150
E07000194	Lichfield	Staffordshire	West Midlands	ENG	121.1	56.3	84.8	196	122	318	65	41	106	182	246	235
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	165.8	68.1	112.0	300	160	460	100	53	153	48	84	141
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	154.1	43.8	92.1	281	106	387	94	35	129	149	209	220
E07000197	Stafford	Staffordshire	West Midlands	ENG	140.5	54.7	93.6	301	146	447	100	49	149	138	198	222
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	139.5	63.9	97.2	224	133	357	75	44	119	118	172	195
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	176.7	90.7	132.0	540	335	875	180	112	292	16	28	12
E07000199	Tamworth	Staffordshire	West Midlands	ENG	143.6	72.7	105.4	133	87	220	44	29	73	81	128	119
E07000200	Babergh	Suffolk	East of England	ENG	113.9	36.8	71.2	186	81	267	62	27	89	264	329	203
E07000244	East Suffolk	Suffolk	East of England	ENG	127.7	50.7	84.9	584	315	899	195	105	300	180	244	151
E07000202	Ipswich	Suffolk	East of England	ENG	117.4	48.1	79.8	193	109	302	64	36	101	216	281	69
E07000203	Mid Suffolk	Suffolk	East of England	ENG	128.9	53.6	87.0	218	118	336	73	39	112	172	235	221
E07000245	West Suffolk	Suffolk	East of England	ENG	131.3	50.9	87.0	343	178	521	114	59	174	173	236	168
E07000207	Elmbridge	Surrey	South East	ENG	89.7	39.0	61.3	163	111	274	54	37	91	289	354	291
E07000208	Epsom and Ewell	Surrey	South East	ENG	79.9	37.0	55.9	81	52	133	27	17	44	294	359	281
E07000209	Guildford	Surrey	South East	ENG	98.4	49.1	70.5	170	121	291	57	40	97	267	332	277
E07000210	Mole Valley	Surrey	South East	ENG	93.6	36.3	62.1	138	76	214	46	25	71	287	352	275
E07000211	Reigate and Banstead	Surrey	South East	ENG	98.8	42.2	67.3	190	119	309	63	40	103	279	344	260
E07000212	Runnymede	Surrey	South East	ENG	115.1	53.0	81.1	127	83	210	42	28	70	203	268	246
E07000213	Spelthorne	Surrey	South East	ENG	124.5	50.7	84.1	166	90	256	55	30	85	187	252	192
E07000214	Surrey Heath	Surrey	South East	ENG	102.2	44.9	69.8	125	80	205	42	27	68	272	337	290
E07000215	Tandridge	Surrey	South East	ENG	91.8	36.0	60.6	119	63	182	40	21	61	291	356	242
E07000216	Waverley	Surrey	South East	ENG	108.3	42.8	70.2	213	131	344	71	44	115	269	334	293
E07000217	Woking	Surrey	South East	ENG	107.0	40.1	71.1	138	69	207	46	23	69	265	330	263
E08000037	Gateshead	Tyne & Wear	North East	ENG	159.4	67.0	109.8	442	236	678	147	79	226	60	98	53

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2019/21			Average number of annual CHD deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	141.6	62.1	98.2	443	251	694	148	84	231	109	162	70
E08000022	North Tyneside	Tyne & Wear	North East	ENG	152.6	75.4	108.1	416	288	704	139	96	235	70	112	123
E08000023	South Tyneside	Tyne & Wear	North East	ENG	161.0	70.7	109.4	320	193	513	107	64	171	61	99	26
E08000024	Sunderland	Tyne & Wear	North East	ENG	171.8	64.4	111.1	616	301	917	205	100	306	52	88	33
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	138.9	52.7	92.8	138	64	202	46	21	67	140	200	147
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	175.1	75.4	120.2	297	159	456	99	53	152	29	54	98
E07000220	Rugby	Warwickshire	West Midlands	ENG	157.4	42.5	95.0	233	80	313	78	27	104	128	186	212
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	115.6	45.0	76.5	262	140	402	87	47	134	240	305	245
E07000222	Warwick	Warwickshire	West Midlands	ENG	120.1	58.7	85.6	228	151	379	76	50	126	179	243	249
E08000025	Birmingham	West Midlands	West Midlands	ENG	170.9	72.2	116.6	1,849	1,019	2,868	616	340	956	37	65	7
E08000026	Coventry	West Midlands	West Midlands	ENG	158.5	66.9	109.4	575	308	883	192	103	294	63	101	72
E08000027	Dudley	West Midlands	West Midlands	ENG	163.4	74.3	114.4	727	438	1,165	242	146	388	41	75	99
E08000028	Sandwell	West Midlands	West Midlands	ENG	217.3	94.9	149.1	758	428	1,186	253	143	395	3	9	6
E08000029	Solihull	West Midlands	West Midlands	ENG	124.1	45.3	79.8	385	204	589	128	68	196	217	282	196
E08000030	Walsall	West Midlands	West Midlands	ENG	182.7	79.2	125.7	636	352	988	212	117	329	22	39	28
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	200.8	87.1	139.0	631	350	981	210	117	327	8	18	18
E07000223	Adur	West Sussex	South East	ENG	138.2	66.1	97.6	139	91	230	46	30	77	115	169	154
E07000224	Arun	West Sussex	South East	ENG	124.5	56.7	87.3	381	254	635	127	85	212	169	232	144
E07000225	Chichester	West Sussex	South East	ENG	112.4	42.8	73.2	255	141	396	85	47	132	256	321	204
E07000226	Crawley	West Sussex	South East	ENG	145.5	52.2	94.4	162	81	243	54	27	81	132	191	127
E07000227	Horsham	West Sussex	South East	ENG	96.4	39.2	65.8	222	130	352	74	43	117	281	346	271
E07000228	Mid Sussex	West Sussex	South East	ENG	111.9	37.3	69.8	241	113	354	80	38	118	273	338	292
E07000229	Worthing	West Sussex	South East	ENG	130.5	57.3	89.2	223	149	372	74	50	124	160	223	161
E06000030	Swindon	Wiltshire	South West	ENG	131.3	61.5	93.2	343	201	544	114	67	181	139	199	162
E06000054	Wiltshire	Wiltshire	South West	ENG	124.8	49.5	82.1	906	513	1,419	302	171	473	198	263	223
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	112.2	36.1	69.6	176	80	256	59	27	85	274	339	255
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	125.5	45.5	80.6	189	95	284	63	32	95	208	273	181
E07000236	Redditch	Worcestershire	West Midlands	ENG	125.2	45.1	81.8	135	58	193	45	19	64	200	265	114
E07000237	Worcester	Worcestershire	West Midlands	ENG	135.4	61.3	93.7	163	98	261	54	33	87	137	197	149
E07000238	Wychavon	Worcestershire	West Midlands	ENG	116.9	42.9	76.2	260	121	381	87	40	127	243	308	179
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	129.8	60.9	92.4	214	131	345	71	44	115	144	204	107
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	142.2	64.3	99.2	831	497	1,328	277	166	443	106	159	207
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	209.0	93.1	146.7	575	315	890	192	105	297	4	11	9
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	171.0	90.8	125.6	268	189	457	89	63	152	23	40	16
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	134.9	59.2	92.7	1,360	823	2,183	453	274	728	142	202	210
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	157.7	62.9	105.2	327	169	496	109	56	165	84	131	62
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	144.7	62.5	97.4	367	235	602	122	78	201	117	171	259
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	184.6	72.1	123.1	602	294	896	201	98	299	27	49	38
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	176.9	82.7	125.8	727	430	1,157	242	143	386	21	38	40
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	157.5	71.2	110.9	564	319	883	188	106	294	55	91	49
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	165.6	73.1	114.3	1,088	633	1,721	363	211	574	42	76	88
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	208.3	93.4	144.6	1,167	696	1,863	389	232	621	5	12	21
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	154.2	72.9	108.6	396	257	653	132	86	218	67	106	73
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	149.3	73.3	106.7	770	501	1,271	257	167	424	76	120	82
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	160.4	67.4	108.3	1,354	765	2,119	451	255	706	69	109	85
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	164.9	76.8	116.9	748	437	1,185	249	146	395	34	62	61
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	134.0	63.1	94.8	219	139	358	73	46	119	8	189	10
N09000011	Ards and North Down		Northern Ireland	NI	120.0	61.6	85.9	269	176	445	90	59	148	10	240	9
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	146.3	53.6	94.2	324	165	489	108	55	163	9	193	7
N09000003	Belfast		Northern Ireland	NI	165.2	84.9	110.0	569	349	918	190	116	306	1	96	4

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2019/21			Average number of annual CHD deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
N09000004	Causeway Coast and Glens		Northern Ireland	NI	128.6	61.1	102.1	229	182	411	76	61	137	4	147	5
N09000005	Derry City and Strabane		Northern Ireland	NI	161.1	57.9	106.9	249	117	366	83	39	122	3	119	1
N09000006	Fermanagh and Omagh		Northern Ireland	NI	153.2	57.4	100.1	210	102	312	70	34	104	5	154	2
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	118.0	63.1	84.3	204	136	340	68	45	113	11	249	11
N09000008	Mid and East Antrim		Northern Ireland	NI	141.9	60.3	96.0	248	146	394	83	49	131	7	181	8
N09000009	Mid Ulster		Northern Ireland	NI	142.1	73.7	108.1	207	154	361	69	51	120	2	111	6
N09000010	Newry, Mourne and Down		Northern Ireland	NI	141.4	67.9	96.5	271	155	426	90	52	142	6	175	3
S12000033	Aberdeen City		Scotland	SCO	173.4	83.3	123.7	425	286	711	142	95	237	16	47	26
S12000034	Aberdeenshire		Scotland	SCO	170.3	83.4	119.8	549	356	905	183	119	302	20	56	30
S12000041	Angus		Scotland	SCO	140.7	81.4	105.6	247	200	447	82	67	149	29	126	20
S12000035	Argyll and Bute		Scotland	SCO	166.2	74.9	117.1	242	140	382	81	47	127	22	61	19
S12000036	City of Edinburgh		Scotland	SCO	164.7	69.8	110.3	884	539	1,423	295	180	474	25	95	29
S12000005	Clackmannanshire		Scotland	SCO	255.5	123.0	180.4	173	105	278	58	35	93	1	1	8
S12000006	Dumfries and Galloway		Scotland	SCO	179.2	84.0	126.1	448	270	718	149	90	239	13	37	12
S12000042	Dundee City		Scotland	SCO	231.6	95.3	152.6	393	237	630	131	79	210	3	6	6
S12000008	East Ayrshire		Scotland	SCO	219.9	107.4	156.3	358	224	582	119	75	194	2	3	7
S12000045	East Dunbartonshire		Scotland	SCO	137.0	57.7	90.7	216	132	348	72	44	116	32	217	31
S12000010	East Lothian		Scotland	SCO	157.3	66.6	105.1	226	131	357	75	44	119	30	134	22
S12000011	East Renfrewshire		Scotland	SCO	147.8	61.3	97.0	185	117	302	62	39	101	31	173	32
S12000014	Falkirk		Scotland	SCO	198.5	107.7	148.5	410	282	692	137	94	231	6	10	16
S12000047	Fife		Scotland	SCO	182.1	79.4	124.2	919	528	1,447	306	176	482	15	44	17
S12000049	Glasgow City		Scotland	SCO	219.1	98.8	149.4	1,272	811	2,083	424	270	694	5	8	2
S12000017	Highland		Scotland	SCO	180.7	80.3	124.3	627	364	991	209	121	330	14	43	18
S12000018	Inverclyde		Scotland	SCO	212.4	91.7	141.5	221	138	359	74	46	120	9	17	4
S12000019	Midlothian		Scotland	SCO	174.6	81.4	120.4	188	116	304	63	39	101	19	53	14
S12000020	Moray		Scotland	SCO	148.9	75.4	108.2	208	140	348	69	47	116	26	110	23
S12000013	Na h-Eileanan Siar		Scotland	SCO	172.5	86.9	127.4	81	54	135	27	18	45	11	33	10
S12000021	North Ayrshire		Scotland	SCO	197.8	100.7	143.6	386	259	645	129	86	215	8	14	3
S12000050	North Lanarkshire		Scotland	SCO	206.8	98.1	144.4	797	498	1,295	266	166	432	7	13	5
S12000023	Orkney Islands		Scotland	SCO	168.1	56.5	107.4	59	26	85	20	9	28	27	114	24
S12000048	Perth and Kinross		Scotland	SCO	156.4	68.1	106.3	370	225	595	123	75	198	28	122	28
S12000038	Renfrewshire		Scotland	SCO	170.9	76.6	118.4	399	232	631	133	77	210	21	59	9
S12000026	Scottish Borders		Scotland	SCO	161.8	76.5	114.7	293	181	474	98	60	158	23	73	21
S12000027	Shetland Islands		Scotland	SCO	147.6	82.2	112.4	46	32	78	15	11	26	24	83	25
S12000028	South Ayrshire		Scotland	SCO	204.6	82.9	135.2	377	211	588	126	70	196	10	24	13
S12000029	South Lanarkshire		Scotland	SCO	191.4	79.7	126.2	765	441	1,206	255	147	402	12	36	11
S12000030	Stirling		Scotland	SCO	181.2	78.1	121.8	217	127	344	72	42	115	18	51	27
S12000039	West Dunbartonshire		Scotland	SCO	215.8	102.0	150.3	231	149	380	77	50	127	4	7	1
S12000040	West Lothian		Scotland	SCO	161.1	89.9	122.3	344	228	572	115	76	191	17	50	15
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	158.5	59.7	104.4	343	178	521	114	59	174	16	139	17
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	163.7	73.7	115.3	260	138	398	87	46	133	8	68	9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	145.0	72.8	105.7	320	198	518	107	66	173	15	125	20
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	161.6	76.7	116.0	307	177	484	102	59	161	7	67	14
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	166.4	72.6	115.1	506	278	784	169	93	261	10	70	8
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	140.0	68.0	101.6	171	107	278	57	36	93	17	151	16
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	165.1	70.5	112.9	358	194	552	119	65	184	12	80	12
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	204.1	116.2	156.0	192	134	326	64	45	109	1	4	1
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	196.1	84.8	135.4	461	246	707	154	82	236	2	23	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	134.1	55.3	90.4	217	119	336	72	40	112	22	219	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	179.8	77.5	123.8	334	184	518	111	61	173	6	46	5

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2019/21			Average number of annual CHD deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	174.8	89.7	128.3	228	149	377	76	50	126	3	32	7
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	155.1	67.1	108.6	296	174	470	99	58	157	13	105	18
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	147.1	76.8	108.6	174	122	296	58	41	99	14	107	15
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	142.7	63.4	99.4	288	159	447	96	53	149	18	158	10
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	177.5	81.2	126.5	141	76	217	47	25	72	4	35	2
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	162.1	76.5	115.2	504	297	801	168	99	267	9	69	4
W06000023	Powys	Powys	Wales / Cymru	WAL	142.9	59.4	96.4	342	185	527	114	62	176	20	177	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	151.0	56.5	98.0	543	281	824	181	94	275	19	165	11
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	140.5	54.1	91.7	260	138	398	87	46	133	21	212	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	174.1	80.7	123.8	352	207	559	117	69	186	5	45	3
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	171.7	68.5	114.5	557	304	861	186	101	287	11	74	13

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population. Some of the data for England and Wales have been suppressed.
* indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)
Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area
UK local authorities correct April 2023 - ASDRs for Somerset, North Yorkshire, Cumberland and Westmorland & Furness are provisional.
Totals for male & female deaths may not equal total due to suppression of age-band cohorts in Nomis data - England & Wales only

Citation: BHF (2023) Analysis of official UK mortality data

Source: England: Number of Deaths are taken from Nomis Mortality Statistics <https://www.nomisweb.co.uk/datasets/mortsa>
Wales: Number of Deaths are taken from Nomis Mortality Statistics <https://www.nomisweb.co.uk/datasets/mortsa>
Scotland: Mortality rates calculated in partnership with NRS (National Records of 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://statswales.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 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2019/21			Average number of annual prem CHD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E06000055	Bedford	Bedfordshire	East of England	ENG	61.7	17.1	38.0	137	35	172	46	12	57	123	173	152
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	47.2	15.1	30.7	179	61	240	60	20	80	202	262	247
E06000032	Luton	Bedfordshire	East of England	ENG	70.3	26.8	48.5	149	55	204	50	18	68	52	80	51
E06000036	Bracknell Forest	Berkshire	South East	ENG	53.0	*	32.4	77	19	96	26	6	32	187	247	265
E06000038	Reading	Berkshire	South East	ENG	65.0	*	40.9	108	27	135	36	9	45	100	145	132
E06000039	Slough	Berkshire	South East	ENG	86.9	38.7	62.7	120	50	170	40	17	57	11	21	74
E06000037	West Berkshire	Berkshire	South East	ENG	49.0	16.2	29.9	109	27	136	36	9	45	211	271	272
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	43.9	17.4	28.6	85	28	113	28	9	38	223	286	285
E06000041	Wokingham	Berkshire	South East	ENG	37.1	14.9	24.3	80	27	107	27	9	36	266	331	295
E06000023	Bristol, City of	Bristol	South West	ENG	59.9	17.5	38.4	266	80	346	89	27	115	119	169	77
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	41.8	10.8	25.9	296	80	376	99	27	125	256	320	268
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	48.2	16.9	31.9	147	56	203	49	19	68	192	252	165
E07000008	Cambridge	Cambridgeshire	East of England	ENG	44.1	*	27.2	54	13	67	18	4	22	237	301	198
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	50.6	*	26.2	50	17	67	17	6	22	250	314	250
E07000010	Fenland	Cambridgeshire	East of England	ENG	65.9	30.4	44.6	99	38	137	33	13	46	75	109	50
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	46.0	16.2	29.8	117	37	154	39	12	51	214	275	236
E06000031	Peterborough	Cambridgeshire	East of England	ENG	67.3	18.7	41.2	152	38	190	51	13	63	99	143	52
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	39.1	*	23.6	85	20	105	28	7	35	274	339	283
E06000049	Cheshire East	Cheshire	North West	ENG	54.4	13.4	33.4	318	83	401	106	28	134	176	236	217
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	55.6	15.4	34.9	279	82	361	93	27	120	150	209	170
E06000006	Halton	Cheshire	North West	ENG	84.4	28.5	55.6	149	54	203	50	18	68	26	42	41
E06000007	Warrington	Cheshire	North West	ENG	73.1	21.6	46.8	208	64	272	69	21	91	58	88	163
E06000052	Cornwall	Cornwall	South West	ENG	59.4	15.6	36.7	543	159	702	181	53	234	133	187	79
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232
E06000047	County Durham	County Durham	North East	ENG	70.5	26.5	48.0	537	215	752	179	72	251	53	81	68
E06000005	Darlington	County Durham	North East	ENG	61.7	18.8	39.7	92	30	122	31	10	41	113	159	100
E06000001	Hartlepool	County Durham	North East	ENG	80.0	25.6	52.2	104	34	138	35	11	46	34	55	27
E06000004	Stockton-on-Tees	County Durham	North East	ENG	63.9	23.9	43.3	169	67	236	56	22	79	87	122	112
E06000063	Cumberland	Cumbria	North West	ENG	72.2	27.1	47.3	411	120	531	103	34	136	57	86	103
E06000064	Westmorland and Furness	Cumbria	North West	ENG	54.1	*	33.2	220	64	284	67	17	85	179	239	160
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	62.8	15.5	38.8	124	32	156	41	11	52	117	166	158
E07000033	Bolsover	Derbyshire	East Midlands	ENG	67.7	27.1	45.2	79	28	107	26	9	36	69	102	57
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	74.7	27.3	46.0	113	30	143	38	10	48	65	97	81
E06000015	Derby	Derbyshire	East Midlands	ENG	80.3	23.4	51.2	238	72	310	79	24	103	41	63	84
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	59.1	*	32.3	78	9	87	26	3	29	188	248	248
E07000036	Erewash	Derbyshire	East Midlands	ENG	60.9	22.8	40.3	98	35	133	33	12	44	106	151	159
E07000037	High Peak	Derbyshire	East Midlands	ENG	54.1	28.6	37.9	78	32	110	26	11	37	125	175	193
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	51.7	18.1	34.5	84	32	116	28	11	39	160	219	166
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	56.3	*	33.6	83	18	101	28	6	34	171	230	215
E07000040	East Devon	Devon	South West	ENG	42.1	11.1	24.5	104	25	129	35	8	43	264	329	226
E07000041	Exeter	Devon	South West	ENG	54.0	*	32.9	74	21	95	25	7	32	181	241	182
E07000042	Mid Devon	Devon	South West	ENG	38.9	*	24.0	51	13	64	17	4	21	270	335	155
E07000043	North Devon	Devon	South West	ENG	53.7	17.8	33.3	82	23	105	27	8	35	178	238	117
E06000026	Plymouth	Devon	South West	ENG	65.1	20.3	42.2	217	71	288	72	24	96	94	137	71
E07000044	South Hams	Devon	South West	ENG	33.6	*	20.0	55	12	67	18	4	22	292	357	206
E07000045	Teignbridge	Devon	South West	ENG	52.1	13.9	29.4	118	22	140	39	7	47	220	283	175
E06000027	Torbay	Devon	South West	ENG	54.8	18.6	34.5	122	36	158	41	12	53	159	218	48
E07000046	Torridge	Devon	South West	ENG	49.0	*	30.8	59	18	77	20	6	26	201	261	66
E07000047	West Devon	Devon	South West	ENG	58.4	*	34.8	59	14	73	20	5	24	151	210	130
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	54.5	16.0	34.7	291	92	383	97	31	128	154	213	156

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2019/21			Average number of annual prem CHD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E06000059	Dorset	Dorset	South West	ENG	46.5	9.9	27.5	303	76	379	101	25	126	235	299	187
E06000043	Brighton and Hove	East Sussex	South East	ENG	53.4	10.6	31.0	164	27	191	55	9	64	198	258	131
E07000061	Eastbourne	East Sussex	South East	ENG	36.1	*	23.3	53	20	73	18	7	24	277	342	104
E07000062	Hastings	East Sussex	South East	ENG	68.9	26.2	46.7	90	37	127	30	12	42	60	90	14
E07000063	Lewes	East Sussex	South East	ENG	50.9	*	28.4	81	14	95	27	5	32	224	287	184
E07000064	Rother	East Sussex	South East	ENG	43.3	16.5	26.9	76	25	101	25	8	34	243	307	126
E07000065	Wealden	East Sussex	South East	ENG	35.6	12.8	21.2	94	23	117	31	8	39	288	353	238
E07000066	Basildon	Essex	East of England	ENG	53.2	17.7	34.6	119	44	163	40	15	54	157	216	106
E07000067	Braintree	Essex	East of England	ENG	44.7	*	26.0	96	21	117	32	7	39	253	317	194
E07000068	Brentwood	Essex	East of England	ENG	54.1	*	33.9	54	16	70	18	5	23	165	224	269
E07000069	Castle Point	Essex	East of England	ENG	55.6	*	33.9	75	21	96	25	7	32	167	226	172
E07000070	Chelmsford	Essex	East of England	ENG	42.7	14.7	27.5	99	33	132	33	11	44	236	300	241
E07000071	Colchester	Essex	East of England	ENG	37.9	15.4	26.1	87	39	126	29	13	42	251	315	173
E07000072	Epping Forest	Essex	East of England	ENG	57.8	*	33.8	101	22	123	34	7	41	168	227	191
E07000073	Harlow	Essex	East of England	ENG	81.4	*	46.3	79	15	94	26	5	31	63	94	97
E07000074	Maldon	Essex	East of England	ENG	42.5	*	26.2	46	13	59	15	4	20	249	313	197
E07000075	Rochford	Essex	East of England	ENG	45.9	*	27.9	60	16	76	20	5	25	231	295	267
E06000033	Southend-on-Sea	Essex	East of England	ENG	63.4	21.5	41.8	151	55	206	50	18	69	95	138	115
E07000076	Tendring	Essex	East of England	ENG	54.4	19.1	35.9	133	55	188	44	18	63	141	197	34
E06000034	Thurrock	Essex	East of England	ENG	67.1	21.7	44.1	128	41	169	43	14	56	82	117	110
E07000077	Uttlesford	Essex	East of England	ENG	32.5	*	22.4	42	17	59	14	6	20	284	349	276
E07000078	Cheltenham	Gloucestershire	South West	ENG	60.2	24.0	40.0	89	34	123	30	11	41	109	155	228
E07000079	Cotswold	Gloucestershire	South West	ENG	56.0	*	32.0	80	16	96	27	5	32	190	250	258
E07000080	Forest of Dean	Gloucestershire	South West	ENG	60.8	29.5	39.8	84	29	113	28	10	38	110	156	135
E07000081	Gloucester	Gloucestershire	South West	ENG	79.7	23.0	50.4	125	38	163	42	13	54	43	66	128
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	40.9	15.8	26.5	146	49	195	49	16	65	247	311	251
E07000082	Stroud	Gloucestershire	South West	ENG	52.1	19.1	33.6	97	33	130	32	11	43	170	229	261
E07000083	Tewkesbury	Gloucestershire	South West	ENG	63.6	22.7	37.2	86	19	105	29	6	35	130	183	243
E09000002	Barking and Dagenham	Greater London	London	ENG	93.8	29.0	60.1	163	51	214	54	17	71	16	29	5
E09000003	Barnet	Greater London	London	ENG	47.5	15.4	30.8	198	68	266	66	23	89	200	260	171
E09000004	Bexley	Greater London	London	ENG	47.5	14.9	30.5	134	45	179	45	15	60	205	265	177
E09000005	Brent	Greater London	London	ENG	63.8	15.7	39.0	215	53	268	72	18	89	116	164	47
E09000006	Bromley	Greater London	London	ENG	46.4	14.5	29.7	184	63	247	61	21	82	217	280	218
E09000007	Camden	Greater London	London	ENG	55.7	19.8	36.8	121	47	168	40	16	56	132	186	125
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189
E09000008	Croydon	Greater London	London	ENG	54.6	14.6	33.6	228	64	292	76	21	97	172	231	96
E09000009	Ealing	Greater London	London	ENG	69.1	15.4	41.4	248	55	303	83	18	101	97	140	87
E09000010	Enfield	Greater London	London	ENG	67.2	15.0	39.7	225	56	281	75	19	94	112	158	58
E09000011	Greenwich	Greater London	London	ENG	64.2	22.0	42.6	171	58	229	57	19	76	93	133	63
E09000012	Hackney	Greater London	London	ENG	77.1	14.0	43.6	159	29	188	53	10	63	85	120	8
E09000013	Hammersmith and Fulham	Greater London	London	ENG	64.6	20.5	38.2	98	31	129	33	10	43	121	171	93
E09000014	Haringey	Greater London	London	ENG	74.9	21.0	46.1	181	56	237	60	19	79	64	96	36
E09000015	Harrow	Greater London	London	ENG	47.5	11.5	28.8	136	35	171	45	12	57	222	285	188
E09000016	Havering	Greater London	London	ENG	46.0	13.5	29.1	143	45	188	48	15	63	221	284	167
E09000017	Hillingdon	Greater London	London	ENG	60.1	14.8	37.0	193	47	240	64	16	80	131	185	138
E09000018	Hounslow	Greater London	London	ENG	63.8	18.8	40.9	178	52	230	59	17	77	101	146	90
E09000019	Islington	Greater London	London	ENG	63.7	20.8	39.7	111	35	146	37	12	49	111	157	29
E09000020	Kensington and Chelsea	Greater London	London	ENG	42.6	*	23.9	71	16	87	24	5	29	271	336	118
E09000021	Kingston upon Thames	Greater London	London	ENG	43.5	*	27.0	79	22	101	26	7	34	241	305	252
E09000022	Lambeth	Greater London	London	ENG	72.5	15.9	41.7	183	37	220	61	12	73	96	139	43

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2019/21			Average number of annual prem CHD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E09000023	Lewisham	Greater London	London	ENG	71.2	21.0	44.6	179	56	235	60	19	78	74	108	35
E09000024	Merton	Greater London	London	ENG	46.3	14.8	28.1	96	26	122	32	9	41	228	292	205
E09000025	Newham	Greater London	London	ENG	81.2	18.5	48.5	218	53	271	73	18	90	51	79	13
E09000026	Redbridge	Greater London	London	ENG	64.5	16.8	40.1	198	52	250	66	17	83	107	152	153
E09000027	Richmond upon Thames	Greater London	London	ENG	34.8	12.6	23.2	80	31	111	27	10	37	279	344	278
E09000028	Southwark	Greater London	London	ENG	57.2	17.9	36.6	137	48	185	46	16	62	134	188	45
E09000029	Sutton	Greater London	London	ENG	45.4	17.5	27.2	106	25	131	35	8	44	238	302	216
E09000030	Tower Hamlets	Greater London	London	ENG	69.0	20.0	44.0	134	39	173	45	13	58	83	118	30
E09000031	Waltham Forest	Greater London	London	ENG	63.8	18.9	40.4	162	48	210	54	16	70	105	150	44
E09000032	Wandsworth	Greater London	London	ENG	51.1	14.1	30.6	126	33	159	42	11	53	203	263	164
E09000033	Westminster	Greater London	London	ENG	42.8	14.1	24.7	103	20	123	34	7	41	263	328	134
E08000001	Bolton	Greater Manchester	North West	ENG	98.2	33.8	65.3	355	128	483	118	43	161	8	15	42
E08000002	Bury	Greater Manchester	North West	ENG	68.5	21.8	44.5	170	58	228	57	19	76	77	111	102
E08000003	Manchester	Greater Manchester	North West	ENG	110.6	44.7	77.7	501	194	695	167	65	232	1	2	2
E08000004	Oldham	Greater Manchester	North West	ENG	88.1	31.9	59.2	245	94	339	82	31	113	18	31	24
E08000005	Rochdale	Greater Manchester	North West	ENG	89.9	33.6	61.2	246	97	343	82	32	114	13	25	17
E08000006	Salford	Greater Manchester	North West	ENG	84.4	20.1	52.3	237	56	293	79	19	98	33	53	20
E08000007	Stockport	Greater Manchester	North West	ENG	70.4	16.4	42.7	277	68	345	92	23	115	92	132	145
E08000008	Tameside	Greater Manchester	North West	ENG	88.2	33.5	60.5	264	103	367	88	34	122	14	26	22
E08000009	Trafford	Greater Manchester	North West	ENG	72.5	21.7	46.4	207	66	273	69	22	91	62	93	201
E08000010	Wigan	Greater Manchester	North West	ENG	68.7	24.9	46.5	314	118	432	105	39	144	61	92	91
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	46.0	16.8	31.1	106	41	147	35	14	49	196	256	234
E07000085	East Hampshire	Hampshire	South East	ENG	31.4	*	19.0	59	16	75	20	5	25	294	359	266
E07000086	Eastleigh	Hampshire	South East	ENG	40.4	*	23.3	72	14	86	24	5	29	278	343	270
E07000087	Fareham	Hampshire	South East	ENG	33.9	*	20.6	58	16	74	19	5	25	290	355	280
E07000088	Gosport	Hampshire	South East	ENG	61.1	25.3	38.1	72	21	93	24	7	31	122	172	121
E07000089	Hart	Hampshire	South East	ENG	31.1	*	20.1	40	13	53	13	4	18	291	356	296
E07000090	Havant	Hampshire	South East	ENG	43.4	21.4	27.8	81	26	107	27	9	36	232	296	124
E07000091	New Forest	Hampshire	South East	ENG	38.9	11.7	23.8	116	33	149	39	11	50	273	338	230
E06000044	Portsmouth	Hampshire	South East	ENG	58.6	23.1	40.6	134	54	188	45	18	63	103	148	54
E07000092	Rushmoor	Hampshire	South East	ENG	42.7	*	29.5	47	19	66	16	6	22	219	282	186
E06000045	Southampton	Hampshire	South East	ENG	65.5	25.0	45.1	167	64	231	56	21	77	71	104	55
E07000093	Test Valley	Hampshire	South East	ENG	43.1	*	25.8	78	18	96	26	6	32	257	321	240
E07000094	Winchester	Hampshire	South East	ENG	39.7	*	23.4	68	15	83	23	5	28	276	341	274
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	57.8	18.4	37.6	175	59	234	58	20	78	128	180	129
E07000095	Broxbourne	Hertfordshire	East of England	ENG	57.4	27.2	35.5	66	20	86	22	7	29	145	202	142
E07000096	Dacorum	Hertfordshire	East of England	ENG	49.0	*	29.9	93	25	118	31	8	39	213	273	229
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	45.8	16.5	28.0	91	23	114	30	8	38	230	294	288
E07000098	Hertsmere	Hertfordshire	East of England	ENG	45.5	*	27.7	58	17	75	19	6	25	233	297	214
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	51.1	22.3	34.0	88	33	121	29	11	40	164	223	254
E07000240	St Albans	Hertfordshire	East of England	ENG	39.3	*	23.1	69	15	84	23	5	28	280	345	287
E07000243	Stevenage	Hertfordshire	East of England	ENG	54.9	*	34.9	56	16	72	19	5	24	149	208	111
E07000102	Three Rivers	Hertfordshire	East of England	ENG	40.6	*	21.9	48	6	54	16	2	18	286	351	273
E07000103	Watford	Hertfordshire	East of England	ENG	42.6	*	25.9	41	10	51	14	3	17	254	318	185
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	50.9	36.1	34.8	67	26	93	22	9	31	152	211	202
E06000046	Isle of Wight	Isle of Wight	South East	ENG	50.7	16.8	30.1	124	28	152	41	9	51	208	268	78
E07000105	Ashford	Kent	South East	ENG	51.7	22.2	33.3	92	29	121	31	10	40	177	237	143
E07000106	Canterbury	Kent	South East	ENG	49.7	17.8	30.6	105	31	136	35	10	45	204	264	176
E07000107	Dartford	Kent	South East	ENG	56.5	*	34.3	66	17	83	22	6	28	163	222	133
E07000108	Dover	Kent	South East	ENG	48.6	20.0	32.4	90	33	123	30	11	41	186	246	101

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75												
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2019/21			Average number of annual prem CHD deaths - 2019/21			ASDR Rank (1 = highest 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		UK-wide	4N
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	53.1	28.2	34.7	92	31	123	31	10	41	156		215	83
E07000109	Gravesham	Kent	South East	ENG	59.6	*	35.7	77	18	95	26	6	32	144		201	109
E07000110	Maidstone	Kent	South East	ENG	44.1	13.6	27.2	100	27	127	33	9	42	239		303	174
E06000035	Medway	Kent	South East	ENG	66.9	17.2	41.4	226	61	287	75	20	96	98		141	92
E07000111	Sevenoaks	Kent	South East	ENG	41.6	*	24.1	69	14	83	23	5	28	269		334	239
E07000113	Swale	Kent	South East	ENG	57.8	16.3	35.9	119	32	151	40	11	50	140		196	64
E07000114	Thanet	Kent	South East	ENG	52.4	19.4	35.2	109	46	155	36	15	52	148		205	37
E07000115	Tonbridge and Malling	Kent	South East	ENG	42.7	16.3	26.0	74	19	93	25	6	31	252		316	224
E07000116	Tunbridge Wells	Kent	South East	ENG	44.8	*	25.9	69	13	82	23	4	27	255		319	256
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	102.9	30.3	66.3	181	53	234	60	18	78	5		10	15
E06000009	Blackpool	Lancashire	North West	ENG	115.2	32.4	73.9	232	65	297	77	22	99	2		3	1
E07000117	Burnley	Lancashire	North West	ENG	93.8	39.9	66.3	112	49	161	37	16	54	6		11	10
E07000118	Chorley	Lancashire	North West	ENG	64.0	26.2	45.0	112	46	158	37	15	53	73		106	180
E07000119	Fylde	Lancashire	North West	ENG	52.2	*	32.6	73	20	93	24	7	31	183		243	190
E07000120	Hyndburn	Lancashire	North West	ENG	91.0	36.8	63.6	97	40	137	32	13	46	9		16	19
E07000121	Lancaster	Lancashire	North West	ENG	79.1	27.8	50.2	154	48	202	51	16	67	46		69	108
E07000122	Pendle	Lancashire	North West	ENG	86.6	33.2	59.5	107	42	149	36	14	50	17		30	31
E07000123	Preston	Lancashire	North West	ENG	94.0	31.7	62.9	153	51	204	51	17	68	10		20	46
E07000124	Ribble Valley	Lancashire	North West	ENG	50.9	28.2	32.1	51	15	66	17	5	22	189		249	262
E07000125	Rossendale	Lancashire	North West	ENG	85.6	32.5	58.7	87	34	121	29	11	40	21		34	89
E07000126	South Ribble	Lancashire	North West	ENG	67.1	23.4	43.3	109	37	146	36	12	49	89		125	200
E07000127	West Lancashire	Lancashire	North West	ENG	71.8	21.9	45.8	119	39	158	40	13	53	66		99	169
E07000128	Wyre	Lancashire	North West	ENG	82.3	20.6	50.4	151	42	193	50	14	64	44		67	146
E07000129	Blaby	Leicestershire	East Midlands	ENG	46.7	21.6	30.0	66	22	88	22	7	29	209		269	264
E07000130	Charnwood	Leicestershire	East Midlands	ENG	54.5	22.6	35.9	128	44	172	43	15	57	139		195	231
E07000131	Harborough	Leicestershire	East Midlands	ENG	45.3	23.3	29.6	65	22	87	22	7	29	218		281	289
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	51.8	21.6	33.5	89	29	118	30	10	39	173		232	225
E06000016	Leicester	Leicestershire	East Midlands	ENG	87.8	33.3	60.3	307	116	423	102	39	141	15		27	23
E07000133	Melton	Leicestershire	East Midlands	ENG	60.6	*	37.4	51	13	64	17	4	21	129		181	237
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	54.6	*	33.5	83	19	102	28	6	34	174		233	209
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	69.2	*	35.3	42	14	56	14	5	19	147		204	233
E07000136	Boston	Lincolnshire	East Midlands	ENG	70.1	27.8	45.5	68	23	91	23	8	30	68		101	80
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	73.1	28.1	50.0	196	78	274	65	26	91	48		71	32
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	81.2	42.7	57.5	89	39	128	30	13	43	23		38	67
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	80.3	28.5	53.9	178	66	244	59	22	81	29		46	65
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	51.3	19.5	31.8	93	27	120	31	9	40	193		253	253
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	72.5	25.1	48.5	185	65	250	62	22	83	50		78	113
E07000140	South Holland	Lincolnshire	East Midlands	ENG	71.1	19.7	44.2	106	28	134	35	9	45	79		114	136
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	64.5	13.0	37.8	141	31	172	47	10	57	126		176	227
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	60.1	19.4	36.5	98	24	122	33	8	41	137		191	137
E08000011	Knowsley	Merseyside	North West	ENG	86.1	34.1	58.7	166	71	237	55	24	79	22		35	3
E08000012	Liverpool	Merseyside	North West	ENG	88.3	25.2	55.9	484	147	631	161	49	210	25		41	4
E08000014	Sefton	Merseyside	North West	ENG	72.8	19.6	45.1	293	87	380	98	29	127	72		105	86
E08000013	St. Helens	Merseyside	North West	ENG	78.6	29.3	53.5	200	78	278	67	26	93	30		48	39
E08000015	Wirral	Merseyside	North West	ENG	64.4	18.4	40.5	298	93	391	99	31	130	104		149	75
E07000143	Breckland	Norfolk	East of England	ENG	47.2	16.4	30.0	104	33	137	35	11	46	210		270	116
E07000144	Broadland	Norfolk	East of England	ENG	39.8	14.2	25.2	84	27	111	28	9	37	261		325	244
E07000145	Great Yarmouth	Norfolk	East of England	ENG	68.7	21.8	44.0	106	32	138	35	11	46	84		119	25
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	50.3	17.6	33.4	117	47	164	39	16	55	175		234	76
E07000147	North Norfolk	Norfolk	East of England	ENG	43.0	14.5	27.0	88	25	113	29	8	38	240		304	95

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2019/21			Average number of annual prem CHD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E07000148	Norwich	Norfolk	East of England	ENG	76.9	26.2	49.2	113	35	148	38	12	49	49	75	60
E07000149	South Norfolk	Norfolk	East of England	ENG	34.5	*	21.2	75	21	96	25	7	32	287	352	219
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	50.4	12.6	31.0	236	63	299	79	21	100	199	259	148
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	55.6	15.9	35.3	296	88	384	99	29	128	146	203	178
E06000057	Northumberland	Northumberland	North East	ENG	58.1	16.6	36.6	307	95	402	102	32	134	136	190	122
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	62.2	27.2	44.5	110	49	159	37	16	53	76	110	59
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	66.0	23.6	44.4	118	43	161	39	14	54	78	112	105
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	61.6	21.9	39.3	98	30	128	33	10	43	114	161	213
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	51.2	*	29.9	86	18	104	29	6	35	212	272	199
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	80.5	24.8	50.7	123	34	157	41	11	52	42	64	56
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	59.6	23.2	38.7	110	36	146	37	12	49	118	167	140
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	101.0	35.5	68.1	302	105	407	101	35	136	4	6	11
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	53.0	*	30.3	90	15	105	30	5	35	207	267	294
E07000177	Cherwell	Oxfordshire	South East	ENG	42.2	15.1	26.7	83	24	107	28	8	36	245	309	211
E07000178	Oxford	Oxfordshire	South East	ENG	53.8	*	32.9	72	19	91	24	6	30	182	242	183
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	34.9	*	22.1	69	22	91	23	7	30	285	350	284
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	40.3	*	24.1	75	16	91	25	5	30	267	332	286
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	43.4	*	26.7	69	19	88	23	6	29	246	310	282
E06000017	Rutland	Rutland	East Midlands	ENG	46.0	*	25.5	24	5	29	8	2	10	258	322	279
E06000051	Shropshire	Shropshire	West Midlands	ENG	52.4	13.4	32.5	268	74	342	89	25	114	185	245	157
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	82.9	22.4	51.8	192	55	247	64	18	82	38	59	94
E06000022	Bath and North East Somerset	Somerset	South West	ENG	48.1	11.3	27.0	115	19	134	38	6	45	242	306	257
E06000024	North Somerset	Somerset	South West	ENG	48.8	16.5	32.0	152	58	210	51	19	70	191	251	208
E06000066	Somerset	Somerset	South West	ENG	48.2	15.5	29.7	425	116	541	142	39	180	216	278	139
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	63.8	29.2	44.1	88	36	124	29	12	41	81	116	120
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	65.6	21.0	43.2	108	35	143	36	12	48	90	126	150
E07000194	Lichfield	Staffordshire	West Midlands	ENG	44.1	16.6	28.2	71	23	94	24	8	31	227	291	235
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	78.8	22.3	50.1	141	42	183	47	14	61	47	70	141
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	58.6	18.0	34.8	104	22	126	35	7	42	153	212	220
E07000197	Stafford	Staffordshire	West Midlands	ENG	52.1	17.8	34.7	107	38	145	36	13	48	155	214	222
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	49.6	17.4	32.6	82	28	110	27	9	37	184	244	195
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	85.7	24.5	54.9	275	80	355	92	27	118	27	43	12
E07000199	Tamworth	Staffordshire	West Midlands	ENG	51.2	29.5	35.8	53	24	77	18	8	26	143	200	119
E07000200	Babergh	Suffolk	East of England	ENG	49.5	*	27.6	74	11	85	25	4	28	234	298	203
E07000244	East Suffolk	Suffolk	East of England	ENG	47.6	14.3	30.4	189	63	252	63	21	84	206	266	151
E07000202	Ipswich	Suffolk	East of England	ENG	46.4	*	28.2	76	18	94	25	6	31	226	290	69
E07000203	Mid Suffolk	Suffolk	East of England	ENG	40.2	18.1	26.8	68	24	92	23	8	31	244	308	221
E07000245	West Suffolk	Suffolk	East of England	ENG	50.3	15.6	31.6	121	37	158	40	12	53	194	254	168
E07000207	Elmbridge	Surrey	South East	ENG	36.2	*	20.7	62	12	74	21	4	25	289	354	291
E07000208	Epsom and Ewell	Surrey	South East	ENG	31.6	*	20.0	30	12	42	10	4	14	293	358	281
E07000209	Guildford	Surrey	South East	ENG	36.8	18.3	25.3	63	26	89	21	9	30	259	323	277
E07000210	Mole Valley	Surrey	South East	ENG	40.3	*	22.9	53	9	62	18	3	21	281	346	275
E07000211	Reigate and Banstead	Surrey	South East	ENG	41.7	21.6	26.4	80	23	103	27	8	34	248	312	260
E07000212	Runnymede	Surrey	South East	ENG	48.4	*	29.8	50	13	63	17	4	21	215	276	246
E07000213	Spelthorne	Surrey	South East	ENG	57.5	*	36.4	73	21	94	24	7	31	138	192	192
E07000214	Surrey Heath	Surrey	South East	ENG	35.2	*	22.5	41	13	54	14	4	18	283	348	290
E07000215	Tandridge	Surrey	South East	ENG	37.2	*	24.1	44	15	59	15	5	20	268	333	242
E07000216	Waverley	Surrey	South East	ENG	38.0	*	22.9	65	17	82	22	6	27	282	347	293
E07000217	Woking	Surrey	South East	ENG	51.4	*	31.5	64	15	79	21	5	26	195	255	263
E08000037	Gateshead	Tyne & Wear	North East	ENG	81.0	25.0	52.3	218	71	289	73	24	96	32	52	53

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2019/21			Average number of annual prem CHD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	66.4	22.5	44.1	212	74	286	71	25	95	80	115	70
E08000022	North Tyneside	Tyne & Wear	North East	ENG	62.3	26.3	43.5	182	84	266	61	28	89	86	121	123
E08000023	South Tyneside	Tyne & Wear	North East	ENG	74.6	22.8	47.8	160	53	213	53	18	71	55	84	26
E08000024	Sunderland	Tyne & Wear	North East	ENG	82.6	23.1	51.7	319	97	416	106	32	139	39	60	33
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	64.5	33.9	42.7	63	22	85	21	7	28	91	131	147
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	83.9	30.2	56.5	147	56	203	49	19	68	24	39	98
E07000220	Rugby	Warwickshire	West Midlands	ENG	79.8	*	46.7	112	21	133	37	7	44	59	89	212
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	50.6	18.7	31.1	105	29	134	35	10	45	197	257	245
E07000222	Warwick	Warwickshire	West Midlands	ENG	49.4	20.1	34.4	89	38	127	30	13	42	161	220	249
E08000025	Birmingham	West Midlands	West Midlands	ENG	80.0	25.2	51.8	875	285	1,160	292	95	387	37	58	7
E08000026	Coventry	West Midlands	West Midlands	ENG	81.2	23.6	51.9	290	86	376	97	29	125	36	57	72
E08000027	Dudley	West Midlands	West Midlands	ENG	72.8	23.6	47.7	312	106	418	104	35	139	56	85	99
E08000028	Sandwell	West Midlands	West Midlands	ENG	108.0	40.1	73.5	395	149	544	132	50	181	3	4	6
E08000029	Solihull	West Midlands	West Midlands	ENG	46.5	12.5	28.3	134	36	170	45	12	57	225	289	196
E08000030	Walsall	West Midlands	West Midlands	ENG	86.2	33.2	59.2	291	117	408	97	39	136	19	32	28
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	100.1	33.8	66.3	305	106	411	102	35	137	7	12	18
E07000223	Adur	West Sussex	South East	ENG	62.3	*	39.0	56	18	74	19	6	25	115	163	154
E07000224	Arun	West Sussex	South East	ENG	60.8	15.0	36.6	155	45	200	52	15	67	135	189	144
E07000225	Chichester	West Sussex	South East	ENG	44.8	19.1	28.0	86	29	115	29	10	38	229	293	204
E07000226	Crawley	West Sussex	South East	ENG	62.6	*	37.7	77	18	95	26	6	32	127	178	127
E07000227	Horsham	West Sussex	South East	ENG	43.6	*	25.2	94	19	113	31	6	38	260	324	271
E07000228	Mid Sussex	West Sussex	South East	ENG	37.9	*	23.5	78	23	101	26	8	34	275	340	292
E07000229	Worthing	West Sussex	South East	ENG	54.9	17.6	33.9	85	26	111	28	9	37	166	225	161
E06000030	Swindon	Wiltshire	South West	ENG	60.2	16.3	38.0	171	47	218	57	16	73	124	174	162
E06000054	Wiltshire	Wiltshire	South West	ENG	40.5	10.2	24.9	296	78	374	99	26	125	262	327	223
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	42.0	*	23.9	61	10	71	20	3	24	272	337	255
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	39.4	*	24.5	53	15	68	18	5	23	265	330	181
E07000236	Redditch	Worcestershire	West Midlands	ENG	64.1	24.9	40.6	75	22	97	25	7	32	102	147	114
E07000237	Worcester	Worcestershire	West Midlands	ENG	51.7	28.0	34.5	66	23	89	22	8	30	158	217	149
E07000238	Wychavon	Worcestershire	West Midlands	ENG	54.2	22.3	33.7	115	31	146	38	10	49	169	228	179
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	64.4	*	38.3	102	23	125	34	8	42	120	170	107
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	54.0	15.8	34.4	313	97	410	104	32	137	162	221	207
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	96.5	26.6	61.3	298	83	381	99	28	127	12	24	9
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	69.8	34.7	51.6	118	64	182	39	21	61	40	61	16
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	51.6	*	33.1	514	167	681	171	56	227	180	240	210
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	71.8	25.9	47.9	145	59	204	48	20	68	54	82	62
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	57.4	15.8	35.9	143	43	186	48	14	62	142	198	259
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	83.7	26.5	54.7	287	94	381	96	31	127	28	44	38
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	81.9	25.7	53.2	346	114	460	115	38	153	31	50	40
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	77.8	24.1	50.4	281	91	372	94	30	124	45	68	49
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	69.2	23.2	45.6	445	157	602	148	52	201	67	100	88
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	90.8	28.8	59.1	555	182	737	185	61	246	20	33	21
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	68.0	23.4	45.2	194	71	265	65	24	88	70	103	73
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	59.3	21.5	40.1	333	124	457	111	41	152	108	154	82
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	67.2	21.0	43.3	589	196	785	196	65	262	88	124	85
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	79.4	25.9	52.2	379	129	508	126	43	169	35	56	61
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	62.5	17.6	39.3	110	33	143	37	11	48	4	160	10
N09000011	Ards and North Down		Northern Ireland	NI	44.4	16.9	29.7	104	41	145	35	14	48	9	277	9
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	47.9	12.1	29.7	124	32	156	41	11	52	10	279	7
N09000003	Belfast		Northern Ireland	NI	74.6	30.7	49.4	276	104	380	92	35	127	1	73	4

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2019/21			Average number of annual prem CHD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
N09000004	Causeway Coast and Glens		Northern Ireland	NI	51.0	14.1	35.0	99	37	136	33	12	45	7	206	5
N09000005	Derry City and Strabane		Northern Ireland	NI	66.3	19.5	42.5	123	37	160	41	12	53	2	135	1
N09000006	Fermanagh and Omagh		Northern Ireland	NI	63.4	18.0	41.1	98	29	127	33	10	42	3	144	2
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	40.1	11.6	24.9	73	20	93	24	7	31	11	326	11
N09000008	Mid and East Antrim		Northern Ireland	NI	58.2	15.2	36.1	108	30	138	36	10	46	6	194	8
N09000009	Mid Ulster		Northern Ireland	NI	50.5	20.7	36.1	86	36	122	29	12	41	5	193	6
N09000010	Newry, Mourne and Down		Northern Ireland	NI	51.9	17.3	33.4	115	34	149	38	11	50	8	235	3
S12000033	Aberdeen City		Scotland	SCO	80.5	21.7	50.6	218	60	278	73	20	93	16	65	26
S12000034	Aberdeenshire		Scotland	SCO	52.4	23.3	37.6	203	92	295	68	31	98	28	179	30
S12000041	Angus		Scotland	SCO	55.5	27.9	41.3	101	55	156	34	18	52	23	142	20
S12000035	Argyll and Bute		Scotland	SCO	83.5	17.0	49.2	121	27	148	40	9	49	18	74	19
S12000036	City of Edinburgh		Scotland	SCO	71.1	20.0	44.8	414	123	537	138	41	179	20	107	29
S12000005	Clackmannanshire		Scotland	SCO	111.4	46.6	77.8	85	39	124	28	13	41	1	1	8
S12000006	Dumfries and Galloway		Scotland	SCO	64.3	25.4	44.3	162	67	229	54	22	76	21	113	12
S12000042	Dundee City		Scotland	SCO	102.6	32.5	65.7	181	63	244	60	21	81	6	14	6
S12000008	East Ayrshire		Scotland	SCO	92.1	33.3	61.6	164	64	228	55	21	76	9	22	7
S12000045	East Dunbartonshire		Scotland	SCO	44.8	13.6	28.3	71	24	95	24	8	32	32	288	31
S12000010	East Lothian		Scotland	SCO	57.8	18.9	37.3	88	32	120	29	11	40	29	182	22
S12000011	East Renfrewshire		Scotland	SCO	60.0	19.7	38.5	75	28	103	25	9	34	27	168	32
S12000014	Falkirk		Scotland	SCO	84.8	36.8	60.1	192	89	281	64	30	94	10	28	16
S12000047	Fife		Scotland	SCO	79.9	25.2	51.5	426	146	572	142	49	191	15	62	17
S12000049	Glasgow City		Scotland	SCO	111.8	37.5	72.8	742	271	1,013	247	90	338	2	5	2
S12000017	Highland		Scotland	SCO	76.4	24.6	49.7	280	97	377	93	32	126	17	72	18
S12000018	Inverclyde		Scotland	SCO	95.1	35.0	63.3	107	45	152	36	15	51	7	17	4
S12000019	Midlothian		Scotland	SCO	61.4	25.5	42.6	77	35	112	26	12	37	22	134	14
S12000020	Moray		Scotland	SCO	59.7	19.6	39.1	85	30	115	28	10	38	25	162	23
S12000013	Na h-Eileanan Siar		Scotland	SCO	112.6	20.0	66.5	52	9	61	17	3	20	5	9	10
S12000021	North Ayrshire		Scotland	SCO	101.8	37.9	67.9	207	88	295	69	29	98	3	7	3
S12000050	North Lanarkshire		Scotland	SCO	97.0	32.3	62.9	430	159	589	143	53	196	8	19	5
S12000023	Orkney Islands		Scotland	SCO	72.1	2.7	37.0	25	1	26	8	*	9	30	184	24
S12000048	Perth and Kinross		Scotland	SCO	61.4	17.8	39.0	144	45	189	48	15	63	26	165	28
S12000038	Renfrewshire		Scotland	SCO	87.1	23.8	53.6	211	63	274	70	21	91	12	47	9
S12000026	Scottish Borders		Scotland	SCO	58.2	14.2	35.8	113	29	142	38	10	47	31	199	21
S12000027	Shetland Islands		Scotland	SCO	61.0	17.6	40.1	22	6	28	7	2	9	24	153	25
S12000028	South Ayrshire		Scotland	SCO	88.7	27.2	56.3	162	56	218	54	19	73	11	40	13
S12000029	South Lanarkshire		Scotland	SCO	80.2	26.6	52.2	364	132	496	121	44	165	14	54	11
S12000030	Stirling		Scotland	SCO	68.7	26.7	46.8	88	36	124	29	12	41	19	87	27
S12000039	West Dunbartonshire		Scotland	SCO	109.0	31.0	67.7	135	42	177	45	14	59	4	8	1
S12000040	West Lothian		Scotland	SCO	79.5	28.5	53.0	189	73	262	63	24	87	13	51	15
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	73.0	17.3	46.0	141	37	183	47	12	61	13	98	17
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	78.0	19.1	49.2	124	31	159	41	10	53	8	76	9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	66.5	21.4	43.1	152	52	203	51	17	68	15	127	20
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	64.2	24.6	43.3	124	49	170	41	16	57	14	123	14
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	69.5	23.5	46.5	206	76	285	69	25	95	11	91	8
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	61.5	19.6	42.9	72	25	103	24	8	34	17	129	16
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	69.0	20.6	47.9	145	48	204	48	16	68	10	83	12
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	98.8	31.1	66.0	98	32	133	33	11	44	1	13	1
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	81.3	23.6	53.3	202	63	273	67	21	91	7	49	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	49.8	6.0	29.8	77	10	95	26	3	32	22	274	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	90.2	26.8	58.2	170	54	226	57	18	75	4	36	5

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2019/21

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					UNDER 75											
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2019/21			Average number of annual prem CHD deaths - 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	88.1	32.9	63.3	113	47	168	38	16	56	2	18	7
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	78.3	12.0	46.2	141	23	169	47	8	56	12	95	18
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	60.9	24.8	42.9	72	31	102	24	10	34	16	128	15
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	65.8	17.3	42.4	133	39	178	44	13	59	19	136	10
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	89.5	22.5	57.7	71	20	95	24	7	32	5	37	2
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	72.9	27.8	49.1	238	95	328	79	32	109	9	77	4
W06000023	Powys	Powys	Wales / Cymru	WAL	46.4	13.3	35.0	111	33	163	37	11	54	21	207	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	67.2	19.2	42.8	256	77	335	85	26	112	18	130	11
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	65.8	14.4	37.8	124	31	151	41	10	50	20	177	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	94.6	28.5	61.6	193	63	259	64	21	86	3	23	3
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	87.5	21.0	54.4	274	74	357	91	25	119	6	45	13

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population. Some of the data for Wales has been suppressed.
Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area
UK local authorities correct April 2023 - ASDRs for Somerset, North Yorkshire, Cumberland and Westmorland & Furness are provisional.
* indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)
Totals for male & female deaths may not equal total due to suppression of age-band cohorts in Nomis data - England & Wales only
PLEASE NOTE following the 2021 census, OHID's pre-2021 England premature death rates are due to be republished later in 2023, which may affect the values here

Citation: BHF (2023) Analysis of official UK mortality data

Source: England: Number of deaths and mortality rates are taken from OHID's Mortality Profile

Wales: Number of deaths are taken from Nomis Mortality Statistics, mortality rates calculated by the BHF

Scotland: Mortality rates calculated in partnership with NRS (National Records of 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.nomisweb.co.uk/datasets/mortsa>

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

<https://statswales.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 stroke (CBVD), all ages, by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2019/21			Average number of annual stroke (CBVD) deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E06000032	Luton	Bedfordshire	East of England	ENG	56.6	56.5	56.9	112	143	255	37	48	85	50	93	51
E06000055	Bedford	Bedfordshire	East of England	ENG	47.5	45.4	47.0	100	137	237	33	46	79	178	240	152
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	54.2	41.1	46.9	185	180	365	62	60	122	180	242	247
E06000039	Slough	Berkshire	South East	ENG	52.3	46.1	49.0	57	66	123	19	22	41	145	207	74
E06000038	Reading	Berkshire	South East	ENG	50.2	49.5	50.7	76	96	172	25	32	57	126	181	132
E06000036	Bracknell Forest	Berkshire	South East	ENG	37.5	33.6	34.7	44	56	100	15	19	33	291	356	265
E06000037	West Berkshire	Berkshire	South East	ENG	50.5	41.9	46.2	99	116	215	33	39	72	196	258	272
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	46.7	42.5	44.1	93	121	214	31	40	71	229	293	285
E06000041	Wokingham	Berkshire	South East	ENG	44.9	37.8	40.9	94	111	205	31	37	68	270	334	295
E06000023	Bristol, City of	Bristol	South West	ENG	43.4	39.0	41.3	179	232	411	60	77	137	266	330	77
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	52.8	39.4	45.5	125	134	259	42	45	86	208	270	165
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	42.6	38.6	40.6	296	398	694	99	133	231	272	336	268
E07000010	Fenland	Cambridgeshire	East of England	ENG	55.9	51.5	52.9	82	111	193	27	37	64	100	152	50
E06000031	Peterborough	Cambridgeshire	East of England	ENG	61.3	47.5	53.5	127	132	259	42	44	86	93	144	52
E07000008	Cambridge	Cambridgeshire	East of England	ENG	39.2	43.9	41.9	47	75	122	16	25	41	258	322	198
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	47.8	48.7	48.8	112	154	266	37	51	89	153	215	236
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	41.9	46.7	44.5	50	79	129	17	26	43	222	285	250
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	45.6	40.0	42.1	95	122	217	32	41	72	257	321	283
E06000006	Halton	Cheshire	North West	ENG	55.5	38.6	45.5	79	74	153	26	25	51	209	271	41
E06000007	Warrington	Cheshire	North West	ENG	60.4	48.9	53.6	148	170	318	49	57	106	91	141	163
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	50.0	47.4	49.5	252	319	571	84	106	190	136	196	170
E06000049	Cheshire East	Cheshire	North West	ENG	54.2	48.8	51.4	321	400	721	107	133	240	117	172	217
E06000052	Cornwall	Cornwall	South West	ENG	64.7	64.1	64.7	569	816	1,385	190	272	462	5	35	79
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232
E06000001	Hartlepool	County Durham	North East	ENG	64.9	47.7	55.6	74	79	153	25	26	51	66	109	27
E06000047	County Durham	County Durham	North East	ENG	60.4	56.1	58.9	424	518	942	141	173	314	32	69	68
E06000005	Darlington	County Durham	North East	ENG	57.9	57.1	57.7	83	112	195	28	37	65	42	83	100
E06000004	Stockton-on-Tees	County Durham	North East	ENG	62.6	50.8	56.2	145	161	306	48	54	102	61	104	112
E06000063	Cumberland	Cumbria	North West	ENG	63.5	55.5	59.3	256	313	569	85	104	190	30	67	103
E06000064	Westmorland and Furness	Cumbria	North West	ENG	57.0	58.1	58.0	209	311	520	70	104	173	37	76	160
E07000033	Bolsover	Derbyshire	East Midlands	ENG	61.2	54.4	57.1	60	74	134	20	25	45	47	90	57
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	59.4	52.3	54.6	80	107	187	27	36	62	77	124	81
E06000015	Derby	Derbyshire	East Midlands	ENG	57.2	52.1	54.6	165	218	383	55	73	128	80	127	84
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	61.6	40.5	48.4	101	100	201	34	33	67	161	223	158
E07000036	Erewash	Derbyshire	East Midlands	ENG	53.9	58.8	57.4	82	131	213	27	44	71	45	87	159
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	62.1	51.8	56.2	97	105	202	32	35	67	62	105	166
E07000037	High Peak	Derbyshire	East Midlands	ENG	49.9	46.4	48.5	62	78	140	21	26	47	160	222	193
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	56.7	39.3	46.6	67	66	133	22	22	44	186	248	215
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	57.1	49.6	53.2	69	89	158	23	30	53	97	149	248
E06000027	Torbay	Devon	South West	ENG	54.7	54.2	55.5	134	192	326	45	64	109	68	111	48
E07000046	Torridge	Devon	South West	ENG	66.0	81.6	75.0	76	133	209	25	44	70	1	17	66
E06000026	Plymouth	Devon	South West	ENG	59.3	59.0	59.4	191	265	456	64	88	152	29	66	71
E07000043	North Devon	Devon	South West	ENG	60.7	58.3	58.9	98	134	232	33	45	77	33	70	117
E07000047	West Devon	Devon	South West	ENG	59.1	59.7	60.1	57	86	143	19	29	48	22	58	130
E07000042	Mid Devon	Devon	South West	ENG	47.7	58.8	54.0	59	105	164	20	35	55	86	133	155
E07000045	Teignbridge	Devon	South West	ENG	57.7	54.4	56.0	132	187	319	44	62	106	64	107	175
E07000041	Exeter	Devon	South West	ENG	50.4	50.3	52.1	70	122	192	23	41	64	105	159	182
E07000044	South Hams	Devon	South West	ENG	43.0	49.3	46.9	67	107	174	22	36	58	179	241	206
E07000040	East Devon	Devon	South West	ENG	42.5	45.8	45.0	131	213	344	44	71	115	215	277	226
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	50.4	50.8	50.7	303	447	750	101	149	250	125	180	156
E06000059	Dorset	Dorset	South West	ENG	50.6	48.8	49.7	378	513	891	126	171	297	135	194	187
E07000062	Hastings	East Sussex	South East	ENG	60.0	49.3	54.4	74	86	160	25	29	53	81	128	14
E07000061	Eastbourne	East Sussex	South East	ENG	59.2	46.7	52.0	106	132	238	35	44	79	107	161	104

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2019/21			Average number of annual stroke (CBVD) deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E07000064	Rother	East Sussex	South East	ENG	50.4	43.1	46.4	102	134	236	34	45	79	194	256	126
E06000043	Brighton and Hove	East Sussex	South East	ENG	47.6	48.7	48.7	134	189	323	45	63	108	154	216	131
E07000063	Lewes	East Sussex	South East	ENG	50.9	39.1	44.4	92	113	205	31	38	68	226	289	184
E07000065	Wealden	East Sussex	South East	ENG	54.5	50.9	52.7	153	207	360	51	69	120	102	154	238
E07000076	Tendring	Essex	East of England	ENG	48.3	43.7	46.5	139	172	311	46	57	104	189	251	34
E07000073	Harlow	Essex	East of England	ENG	43.8	35.0	38.2	39	45	84	13	15	28	283	347	97
E07000066	Basildon	Essex	East of England	ENG	58.7	36.3	45.3	119	110	229	40	37	76	213	275	106
E06000034	Thurrock	Essex	East of England	ENG	50.2	38.2	42.5	72	79	151	24	26	50	251	315	110
E06000033	Southend-on-Sea	Essex	East of England	ENG	50.5	38.3	43.9	121	138	259	40	46	86	235	299	115
E07000069	Castle Point	Essex	East of England	ENG	54.3	35.9	44.1	77	71	148	26	24	49	230	294	172
E07000071	Colchester	Essex	East of England	ENG	44.8	35.1	39.8	100	108	208	33	36	69	276	340	173
E07000072	Epping Forest	Essex	East of England	ENG	47.4	37.8	41.7	82	98	180	27	33	60	261	325	191
E07000067	Braintree	Essex	East of England	ENG	42.3	39.9	41.7	86	114	200	29	38	67	262	326	194
E07000074	Maldon	Essex	East of England	ENG	38.8	42.6	41.6	41	60	101	14	20	34	264	328	197
E07000070	Chelmsford	Essex	East of England	ENG	56.6	34.2	44.1	134	110	244	45	37	81	231	295	241
E07000075	Rochford	Essex	East of England	ENG	53.9	41.8	46.0	65	75	140	22	25	47	200	262	267
E07000068	Brentwood	Essex	East of England	ENG	47.6	30.6	38.0	54	52	106	18	17	35	284	348	269
E07000077	Uttlesford	Essex	East of England	ENG	33.9	30.1	31.0	39	53	92	13	18	31	294	359	276
E07000081	Gloucester	Gloucestershire	South West	ENG	63.0	46.8	53.6	89	98	187	30	33	62	90	140	128
E07000080	Forest of Dean	Gloucestershire	South West	ENG	48.5	54.3	52.7	64	100	164	21	33	55	103	156	135
E07000078	Cheltenham	Gloucestershire	South West	ENG	52.4	62.0	58.3	82	148	230	27	49	77	34	72	228
E07000083	Tewkesbury	Gloucestershire	South West	ENG	55.3	42.6	48.1	75	83	158	25	28	53	163	225	243
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	34.2	37.3	36.5	127	191	318	42	64	106	289	353	251
E07000079	Cotswold	Gloucestershire	South West	ENG	51.6	44.5	47.7	81	98	179	27	33	60	169	231	258
E07000082	Stroud	Gloucestershire	South West	ENG	54.3	44.4	48.5	91	106	197	30	35	66	158	220	261
E09000002	Barking and Dagenham	Greater London	London	ENG	58.4	41.7	48.6	83	85	168	28	28	56	156	218	5
E09000012	Hackney	Greater London	London	ENG	55.6	49.9	53.0	86	93	179	29	31	60	98	150	8
E09000025	Newham	Greater London	London	ENG	61.3	47.5	53.8	119	114	233	40	38	78	88	138	13
E09000019	Islington	Greater London	London	ENG	45.6	38.3	41.8	68	73	141	23	24	47	259	323	29
E09000030	Tower Hamlets	Greater London	London	ENG	48.4	54.5	51.8	70	94	164	23	31	55	108	163	30
E09000023	Lewisham	Greater London	London	ENG	61.3	59.5	60.4	117	169	286	39	56	95	19	55	35
E09000014	Haringey	Greater London	London	ENG	53.4	41.2	46.5	102	107	209	34	36	70	190	252	36
E09000022	Lambeth	Greater London	London	ENG	53.5	40.5	46.0	109	105	214	36	35	71	199	261	43
E09000031	Waltham Forest	Greater London	London	ENG	45.6	37.3	41.1	93	105	198	31	35	66	267	331	44
E09000028	Southwark	Greater London	London	ENG	60.6	37.8	47.4	119	98	217	40	33	72	174	236	45
E09000005	Brent	Greater London	London	ENG	52.0	41.2	46.5	153	155	308	51	52	103	191	253	47
E09000010	Enfield	Greater London	London	ENG	42.9	41.2	42.2	134	181	315	45	60	105	255	319	58
E09000011	Greenwich	Greater London	London	ENG	56.6	51.8	54.6	121	143	264	40	48	88	79	126	63
E09000009	Ealing	Greater London	London	ENG	56.4	42.8	49.5	182	176	358	61	59	119	137	197	87
E09000018	Hounslow	Greater London	London	ENG	63.1	51.2	57.9	153	150	303	51	50	101	40	79	90
E09000013	Hammersmith and Fulham	Greater London	London	ENG	43.0	47.4	45.8	56	86	142	19	29	47	202	264	93
E09000008	Croydon	Greater London	London	ENG	56.9	45.1	50.7	215	228	443	72	76	148	124	179	96
E09000020	Kensington and Chelsea	Greater London	London	ENG	47.2	30.5	38.2	78	63	141	26	21	47	282	346	118
E09000007	Camden	Greater London	London	ENG	36.1	34.5	35.4	74	96	170	25	32	57	290	354	125
E09000033	Westminster	Greater London	London	ENG	41.6	36.3	38.6	90	98	188	30	33	63	280	344	134
E09000017	Hillingdon	Greater London	London	ENG	45.7	41.6	43.6	138	161	299	46	54	100	236	300	138
E09000026	Redbridge	Greater London	London	ENG	49.0	36.7	42.2	134	135	269	45	45	90	256	320	153
E09000032	Wandsworth	Greater London	London	ENG	48.0	38.0	42.6	107	112	219	36	37	73	247	311	164
E09000016	Havering	Greater London	London	ENG	46.8	43.1	44.8	144	206	350	48	69	117	219	281	167
E09000003	Barnet	Greater London	London	ENG	36.8	31.5	34.2	148	185	333	49	62	111	292	357	171
E09000004	Bexley	Greater London	London	ENG	55.8	42.9	49.0	154	185	339	51	62	113	146	208	177
E09000015	Harrow	Greater London	London	ENG	38.5	36.7	38.0	111	140	251	37	47	84	285	349	188
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2019/21			Average number of annual stroke (CBVD) deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E09000024	Merton	Greater London	London	ENG	45.8	49.9	48.9	84	129	213	28	43	71	147	209	205
E09000029	Sutton	Greater London	London	ENG	44.9	41.7	43.2	97	132	229	32	44	76	241	305	216
E09000006	Bromley	Greater London	London	ENG	46.7	37.7	41.6	185	227	412	62	76	137	263	327	218
E09000021	Kingston upon Thames	Greater London	London	ENG	47.5	34.4	39.9	80	81	161	27	27	54	275	339	252
E09000027	Richmond upon Thames	Greater London	London	ENG	49.6	35.1	40.9	100	108	208	33	36	69	269	333	278
E08000003	Manchester	Greater Manchester	North West	ENG	68.8	56.9	62.4	235	266	501	78	89	167	11	45	2
E08000005	Rochdale	Greater Manchester	North West	ENG	76.1	60.9	68.4	184	194	378	61	65	126	3	28	17
E08000006	Salford	Greater Manchester	North West	ENG	57.4	53.7	55.3	141	174	315	47	58	105	71	117	20
E08000008	Tameside	Greater Manchester	North West	ENG	58.0	51.0	53.5	144	169	313	48	56	104	92	143	22
E08000004	Oldham	Greater Manchester	North West	ENG	62.2	57.0	60.1	158	187	345	53	62	115	21	57	24
E08000001	Bolton	Greater Manchester	North West	ENG	57.4	50.8	54.2	185	215	400	62	72	133	84	131	42
E08000010	Wigan	Greater Manchester	North West	ENG	64.0	52.8	58.0	252	264	516	84	88	172	38	77	91
E08000002	Bury	Greater Manchester	North West	ENG	64.9	47.4	55.4	147	148	295	49	49	98	69	113	102
E08000007	Stockport	Greater Manchester	North West	ENG	53.9	42.3	47.5	213	236	449	71	79	150	173	235	145
E08000009	Trafford	Greater Manchester	North West	ENG	51.0	46.2	48.7	143	193	336	48	64	112	155	217	201
E06000044	Portsmouth	Hampshire	South East	ENG	62.7	49.3	55.5	129	144	273	43	48	91	67	110	54
E06000045	Southampton	Hampshire	South East	ENG	43.1	54.8	51.2	101	181	282	34	60	94	120	175	55
E07000088	Gosport	Hampshire	South East	ENG	61.2	47.6	53.3	67	77	144	22	26	48	96	148	121
E07000090	Havant	Hampshire	South East	ENG	46.4	43.0	44.7	94	124	218	31	41	73	220	282	124
E07000092	Rushmoor	Hampshire	South East	ENG	55.7	41.7	47.7	54	54	108	18	18	36	168	230	186
E07000091	New Forest	Hampshire	South East	ENG	51.3	45.7	48.6	191	262	453	64	87	151	157	219	230
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	52.8	53.6	52.5	103	145	248	34	48	83	104	157	234
E07000093	Test Valley	Hampshire	South East	ENG	42.0	44.3	44.0	77	116	193	26	39	64	232	296	240
E07000085	East Hampshire	Hampshire	South East	ENG	54.0	45.0	49.1	105	127	232	35	42	77	141	203	266
E07000086	Eastleigh	Hampshire	South East	ENG	42.8	42.0	42.7	77	106	183	26	35	61	245	309	270
E07000094	Winchester	Hampshire	South East	ENG	46.8	33.2	40.0	88	95	183	29	32	61	274	338	274
E07000087	Fareham	Hampshire	South East	ENG	41.9	46.5	45.0	78	130	208	26	43	69	217	279	280
E07000089	Hart	Hampshire	South East	ENG	40.0	36.1	37.9	52	66	118	17	22	39	286	350	296
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	53.7	58.4	57.0	171	254	425	57	85	142	48	91	129
E07000243	Stevenage	Hertfordshire	East of England	ENG	58.7	43.1	49.8	54	59	113	18	20	38	133	191	111
E07000095	Broxbourne	Hertfordshire	East of England	ENG	54.0	45.5	49.1	62	76	138	21	25	46	142	204	142
E07000103	Watford	Hertfordshire	East of England	ENG	47.2	48.3	49.3	43	63	106	14	21	35	138	199	185
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	46.9	47.4	46.6	61	99	160	20	33	53	187	249	202
E07000098	Hertsmere	Hertfordshire	East of England	ENG	43.2	40.5	42.4	59	81	140	20	27	47	252	316	214
E07000096	Dacorum	Hertfordshire	East of England	ENG	43.2	40.9	42.5	81	109	190	27	36	63	249	313	229
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	47.2	44.3	45.7	82	116	198	27	39	66	203	265	254
E07000102	Three Rivers	Hertfordshire	East of England	ENG	38.5	35.9	37.8	47	62	109	16	21	36	287	351	273
E07000240	St Albans	Hertfordshire	East of England	ENG	41.8	33.3	37.5	77	89	166	26	30	55	288	352	287
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	42.3	45.9	45.6	79	121	200	26	40	67	207	269	288
E06000046	Isle of Wight	Isle of Wight	South East	ENG	41.6	48.0	46.1	111	173	284	37	58	95	198	260	78
E07000114	Thanet	Kent	South East	ENG	71.3	57.8	63.7	144	179	323	48	60	108	8	39	37
E07000113	Swale	Kent	South East	ENG	49.1	45.4	46.7	84	111	195	28	37	65	184	246	64
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	48.9	49.0	48.9	88	124	212	29	41	71	148	210	83
E06000035	Medway	Kent	South East	ENG	47.8	38.4	42.7	133	150	283	44	50	94	246	310	92
E07000108	Dover	Kent	South East	ENG	50.0	49.3	50.6	89	122	211	30	41	70	127	182	101
E07000109	Gravesham	Kent	South East	ENG	63.5	45.3	53.6	81	77	158	27	26	53	89	139	109
E07000107	Dartford	Kent	South East	ENG	53.9	57.2	56.5	61	86	147	20	29	49	52	95	133
E07000105	Ashford	Kent	South East	ENG	53.8	52.2	53.0	87	118	205	29	39	68	99	151	143
E07000110	Maidstone	Kent	South East	ENG	52.6	47.7	50.5	115	150	265	38	50	88	128	183	174
E07000106	Canterbury	Kent	South East	ENG	58.2	46.1	52.0	131	159	290	44	53	97	106	160	176
E07000115	Tonbridge and Malling	Kent	South East	ENG	49.9	37.1	42.4	79	86	165	26	29	55	253	317	224
E07000111	Sevenoaks	Kent	South East	ENG	50.9	50.9	50.9	89	130	219	30	43	73	122	177	239
E07000116	Tunbridge Wells	Kent	South East	ENG	58.8	60.9	60.4	96	148	244	32	49	81	18	54	256

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2019/21			Average number of annual stroke (CBVD) deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E06000009	Blackpool	Lancashire	North West	ENG	57.8	57.0	58.2	110	144	254	37	48	85	36	74	1
E07000117	Burnley	Lancashire	North West	ENG	57.8	60.2	60.2	63	88	151	21	29	50	20	56	10
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	65.4	61.6	62.7	93	112	205	31	37	68	10	42	15
E07000120	Hyndburn	Lancashire	North West	ENG	71.7	52.1	61.4	68	66	134	23	22	45	16	51	19
E07000122	Pendle	Lancashire	North West	ENG	48.0	45.6	47.5	55	66	121	18	22	40	172	234	31
E07000123	Preston	Lancashire	North West	ENG	63.4	55.2	59.9	94	107	201	31	36	67	23	59	46
E07000125	Rossendale	Lancashire	North West	ENG	50.2	46.9	48.5	42	52	94	14	17	31	159	221	89
E07000121	Lancaster	Lancashire	North West	ENG	54.1	54.6	54.7	100	148	248	33	49	83	75	122	108
E07000128	Wyre	Lancashire	North West	ENG	54.5	50.2	53.4	115	143	258	38	48	86	94	145	146
E07000127	West Lancashire	Lancashire	North West	ENG	64.8	63.2	64.6	105	144	249	35	48	83	6	36	169
E07000118	Chorley	Lancashire	North West	ENG	53.7	49.2	51.8	78	94	172	26	31	57	109	164	180
E07000119	Fylde	Lancashire	North West	ENG	53.9	48.2	51.7	82	104	186	27	35	62	111	166	190
E07000126	South Ribble	Lancashire	North West	ENG	47.0	41.2	43.6	72	86	158	24	29	53	237	301	200
E07000124	Ribble Valley	Lancashire	North West	ENG	48.9	53.1	52.9	49	71	120	16	24	40	101	153	262
E06000016	Leicester	Leicestershire	East Midlands	ENG	59.1	53.0	56.3	173	213	386	58	71	129	59	102	23
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	47.9	42.3	44.5	61	74	135	20	25	45	224	287	209
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	45.6	42.8	43.9	71	93	164	24	31	55	233	297	225
E07000130	Charnwood	Leicestershire	East Midlands	ENG	53.5	40.6	46.7	120	125	245	40	42	82	183	245	231
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	45.9	40.8	42.9	40	53	93	13	18	31	244	308	233
E07000133	Melton	Leicestershire	East Midlands	ENG	49.9	39.8	44.5	36	41	77	12	14	26	225	288	237
E07000129	Blaby	Leicestershire	East Midlands	ENG	40.6	38.6	39.1	53	72	125	18	24	42	278	342	264
E07000131	Harborough	Leicestershire	East Midlands	ENG	41.9	37.0	38.8	55	70	125	18	23	42	279	343	289
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	66.0	54.9	59.7	182	187	369	61	62	123	25	61	32
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	62.8	51.6	56.5	133	154	287	44	51	96	55	98	65
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	62.5	49.2	55.7	64	74	138	21	25	46	65	108	67
E07000136	Boston	Lincolnshire	East Midlands	ENG	45.8	54.3	51.2	45	70	115	15	23	38	118	173	80
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	49.5	46.2	48.0	113	153	266	38	51	89	165	227	113
E07000140	South Holland	Lincolnshire	East Midlands	ENG	43.5	40.5	42.4	68	82	150	23	27	50	254	318	136
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	66.0	48.9	56.5	96	93	189	32	31	63	54	97	137
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	47.9	44.5	46.3	100	132	232	33	44	77	195	257	227
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	54.1	50.2	51.6	96	120	216	32	40	72	113	168	253
E08000011	Knowsley	Merseyside	North West	ENG	58.8	54.4	56.4	99	125	224	33	42	75	56	99	3
E08000012	Liverpool	Merseyside	North West	ENG	65.0	58.6	62.0	314	381	695	105	127	232	13	47	4
E08000013	St. Helens	Merseyside	North West	ENG	73.5	49.2	59.7	172	151	323	57	50	108	24	60	39
E08000015	Wirral	Merseyside	North West	ENG	54.5	53.7	54.1	245	353	598	82	118	199	85	132	75
E08000014	Sefton	Merseyside	North West	ENG	60.8	55.7	58.3	253	359	612	84	120	204	35	73	86
E07000145	Great Yarmouth	Norfolk	East of England	ENG	63.5	55.9	59.7	101	120	221	34	40	74	26	62	25
E07000148	Norwich	Norfolk	East of England	ENG	53.6	58.1	56.3	78	124	202	26	41	67	58	101	60
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	56.8	45.9	50.8	145	161	306	48	54	102	123	178	76
E07000147	North Norfolk	Norfolk	East of England	ENG	50.6	47.7	48.9	118	158	276	39	53	92	149	211	95
E07000143	Breckland	Norfolk	East of England	ENG	49.5	43.1	45.7	116	141	257	39	47	86	205	267	116
E07000149	South Norfolk	Norfolk	East of England	ENG	54.2	40.1	46.2	124	126	250	41	42	83	197	259	219
E07000144	Broadland	Norfolk	East of England	ENG	52.7	46.7	49.1	117	150	267	39	50	89	143	205	244
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	55.2	44.0	48.8	230	242	472	77	81	157	151	213	148
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	51.0	44.8	47.8	235	281	516	78	94	172	166	228	178
E06000057	Northumberland	Northumberland	North East	ENG	61.6	52.6	56.5	308	359	667	103	120	222	53	96	122
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	66.3	60.4	62.8	167	223	390	56	74	130	9	41	11
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	42.3	49.9	46.6	57	93	150	19	31	50	185	247	56
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	47.0	60.9	54.7	72	126	198	24	42	66	76	123	59
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	50.9	46.1	48.8	88	101	189	29	34	63	150	212	105
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	62.3	49.8	56.2	108	118	226	36	39	75	63	106	140
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	58.7	57.8	57.3	89	123	212	30	41	71	46	88	199
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	51.9	50.4	51.2	81	111	192	27	37	64	119	174	213

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2019/21

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					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2019/21			Average number of annual stroke (CBVD) deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	45.5	54.6	51.5	76	139	215	25	46	72	116	171	294
E07000178	Oxford	Oxfordshire	South East	ENG	48.9	37.7	42.9	66	75	141	22	25	47	243	307	183
E07000177	Cherwell	Oxfordshire	South East	ENG	47.0	46.2	46.5	85	119	204	28	40	68	192	254	211
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	47.3	43.1	45.0	79	103	182	26	34	61	216	278	282
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	47.2	44.1	45.3	96	126	222	32	42	74	214	276	284
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	47.6	41.3	44.7	91	111	202	30	37	67	221	283	286
E06000017	Rutland	Rutland	East Midlands	ENG	50.7	38.6	44.3	36	36	72	12	12	24	228	291	279
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	50.1	52.3	51.8	99	134	233	33	45	78	110	165	94
E06000051	Shropshire	Shropshire	West Midlands	ENG	58.1	55.3	57.5	309	410	719	103	137	240	43	85	157
E06000066	Somerset	Somerset	South West	ENG	51.9	48.6	50.4	477	655	1,132	159	218	377	129	185	139
E06000024	North Somerset	Somerset	South West	ENG	41.6	40.4	41.4	141	202	343	47	67	114	265	329	208
E06000022	Bath and North East Somerset	Somerset	South West	ENG	41.5	42.2	42.5	105	159	264	35	53	88	250	314	257
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	49.3	43.8	46.5	137	164	301	46	55	100	193	255	12
E07000199	Tamworth	Staffordshire	West Midlands	ENG	34.3	52.4	44.9	31	64	95	10	21	32	218	280	119
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	62.5	40.6	49.2	74	70	144	25	23	48	139	201	120
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	39.0	28.6	33.9	71	70	141	24	23	47	293	358	141
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	51.3	47.6	49.8	74	101	175	25	34	58	134	193	150
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	55.0	40.3	46.8	86	86	172	29	29	57	181	243	195
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	54.8	44.5	49.1	94	111	205	31	37	68	140	202	220
E07000197	Stafford	Staffordshire	West Midlands	ENG	44.9	40.2	42.9	91	111	202	30	37	67	242	306	222
E07000194	Lichfield	Staffordshire	West Midlands	ENG	46.3	47.9	47.4	74	102	176	25	34	59	175	237	235
E07000202	Ipswich	Suffolk	East of England	ENG	51.3	41.4	45.8	83	92	175	28	31	58	201	263	69
E07000244	East Suffolk	Suffolk	East of England	ENG	48.8	47.3	48.1	225	305	530	75	102	177	162	224	151
E07000245	West Suffolk	Suffolk	East of England	ENG	42.2	45.0	43.9	109	162	271	36	54	90	234	298	168
E07000200	Babergh	Suffolk	East of England	ENG	54.2	37.1	44.4	87	85	172	29	28	57	227	290	203
E07000203	Mid Suffolk	Suffolk	East of England	ENG	52.4	44.3	47.7	83	100	183	28	33	61	170	232	221
E07000213	Spelthorne	Surrey	South East	ENG	46.6	43.7	45.4	63	77	140	21	26	47	210	272	192
E07000215	Tandridge	Surrey	South East	ENG	44.7	51.9	49.1	59	99	158	20	33	53	144	206	242
E07000212	Runnymede	Surrey	South East	ENG	46.4	45.1	46.8	52	71	123	17	24	41	182	244	246
E07000211	Reigate and Banstead	Surrey	South East	ENG	44.3	42.7	43.3	83	121	204	28	40	68	240	304	260
E07000217	Woking	Surrey	South East	ENG	42.4	50.9	48.1	55	91	146	18	30	49	164	226	263
E07000210	Mole Valley	Surrey	South East	ENG	48.0	36.1	41.0	72	78	150	24	26	50	268	332	275
E07000209	Guildford	Surrey	South East	ENG	38.2	42.0	40.3	65	106	171	22	35	57	273	337	277
E07000208	Epsom and Ewell	Surrey	South East	ENG	51.6	34.5	42.5	53	50	103	18	17	34	248	312	281
E07000214	Surrey Heath	Surrey	South East	ENG	36.1	38.2	38.6	45	71	116	15	24	39	281	345	290
E07000207	Elmbridge	Surrey	South East	ENG	41.1	48.3	45.7	76	136	212	25	45	71	204	266	291
E07000216	Waverley	Surrey	South East	ENG	41.6	38.8	40.6	84	123	207	28	41	69	271	335	293
E08000023	South Tyneside	Tyne & Wear	North East	ENG	68.1	55.9	61.7	132	156	288	44	52	96	15	50	26
E08000024	Sunderland	Tyne & Wear	North East	ENG	60.6	54.3	57.4	198	256	454	66	85	151	44	86	33
E08000037	Gateshead	Tyne & Wear	North East	ENG	60.8	57.7	59.6	158	212	370	53	71	123	28	65	53
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	68.3	48.3	56.6	202	200	402	67	67	134	51	94	70
E08000022	North Tyneside	Tyne & Wear	North East	ENG	66.2	56.3	60.6	165	225	390	55	75	130	17	52	123
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	55.4	51.8	54.6	90	111	201	30	37	67	78	125	98
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	58.9	42.3	48.8	49	54	103	16	18	34	152	214	147
E07000220	Rugby	Warwickshire	West Midlands	ENG	49.5	50.9	50.4	70	99	169	23	33	56	130	187	212
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	41.5	38.7	39.6	93	122	215	31	41	72	277	341	245
E07000222	Warwick	Warwickshire	West Midlands	ENG	43.5	43.2	43.4	80	118	198	27	39	66	238	302	249
E08000028	Sandwell	West Midlands	West Midlands	ENG	58.3	53.8	56.3	197	246	443	66	82	148	60	103	6
E08000025	Birmingham	West Midlands	West Midlands	ENG	60.6	50.4	54.9	627	733	1,360	209	244	453	74	121	7
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	61.2	57.3	59.2	185	239	424	62	80	141	31	68	18
E08000030	Walsall	West Midlands	West Midlands	ENG	59.0	54.3	56.4	193	249	442	64	83	147	57	100	28
E08000026	Coventry	West Midlands	West Midlands	ENG	55.6	50.4	53.4	194	241	435	65	80	145	95	146	72
E08000027	Dudley	West Midlands	West Midlands	ENG	48.1	45.8	47.2	206	273	479	69	91	160	176	238	99

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2019/21

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					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2019/21			Average number of annual stroke (CBVD) deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
E08000029	Solihull	West Midlands	West Midlands	ENG	42.0	46.7	45.4	129	216	345	43	72	115	211	273	196
E07000226	Crawley	West Sussex	South East	ENG	54.3	38.0	44.5	57	60	117	19	20	39	223	286	127
E07000224	Arun	West Sussex	South East	ENG	55.5	45.2	50.0	173	212	385	58	71	128	131	188	144
E07000223	Adur	West Sussex	South East	ENG	51.4	33.2	41.7	53	50	103	18	17	34	260	324	154
E07000229	Worthing	West Sussex	South East	ENG	39.0	52.5	47.8	67	143	210	22	48	70	167	229	161
E07000225	Chichester	West Sussex	South East	ENG	48.3	45.0	46.6	111	153	264	37	51	88	188	250	204
E07000227	Horsham	West Sussex	South East	ENG	48.2	40.4	43.3	104	130	234	35	43	78	239	303	271
E07000228	Mid Sussex	West Sussex	South East	ENG	51.4	41.2	45.7	107	130	237	36	43	79	206	268	292
E06000030	Swindon	Wiltshire	South West	ENG	59.6	49.4	54.0	149	163	312	50	54	104	87	135	162
E06000054	Wiltshire	Wiltshire	South West	ENG	50.7	49.2	49.9	362	506	868	121	169	289	132	190	223
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	64.4	60.0	62.0	100	130	230	33	43	77	12	46	107
E07000236	Redditch	Worcestershire	West Midlands	ENG	39.0	53.3	47.2	37	69	106	12	23	35	177	239	114
E07000237	Worcester	Worcestershire	West Midlands	ENG	68.5	62.0	65.9	78	103	181	26	34	60	4	33	149
E07000238	Wychavon	Worcestershire	West Midlands	ENG	43.3	45.1	45.3	95	137	232	32	46	77	212	274	179
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	53.9	63.6	59.6	80	134	214	27	45	71	27	64	181
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	44.9	47.1	47.6	71	111	182	24	37	61	171	233	255
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	80.7	68.1	74.3	205	233	438	68	78	146	2	19	9
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	55.2	53.4	54.3	302	418	720	101	139	240	83	130	207
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	64.2	49.9	55.3	92	103	195	31	34	65	70	115	16
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	55.2	54.8	55.0	109	146	255	36	49	85	72	118	62
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	58.2	55.4	57.0	559	796	1,355	186	265	452	49	92	210
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	50.1	49.3	51.1	131	195	326	44	65	109	121	176	259
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	68.7	57.0	61.8	205	235	440	68	78	147	14	49	38
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	58.2	55.7	57.7	229	296	525	76	99	175	41	82	40
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	55.5	52.9	54.4	183	240	423	61	80	141	82	129	49
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	55.4	48.6	51.6	348	432	780	116	144	260	112	167	88
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	70.6	58.1	64.2	382	439	821	127	146	274	7	37	21
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	51.2	50.7	51.5	219	290	509	73	97	170	115	170	61
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	59.9	50.2	55.0	147	179	326	49	60	109	73	119	73
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	61.1	55.6	57.9	299	386	685	100	129	228	39	78	82
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	53.6	49.4	51.5	429	575	1,004	143	192	335	114	169	85
N09000005	Derry City and Strabane		Northern Ireland	NI	63.2	45.2	55.4	93	92	185	31	31	62	4	112	1
N09000006	Fermanagh and Omagh		Northern Ireland	NI	51.9	55.1	53.6	63	97	160	21	32	53	6	142	2
N09000010	Newry, Mourne and Down		Northern Ireland	NI	55.5	39.4	44.6	98	93	191	33	31	64	11	284	3
N09000003	Belfast		Northern Ireland	NI	53.5	60.0	50.5	175	248	423	58	83	141	9	184	4
N09000004	Causeway Coast and Glens		Northern Ireland	NI	66.1	40.0	57.5	107	120	227	36	40	76	3	84	5
N09000009	Mid Ulster		Northern Ireland	NI	64.0	56.5	62.6	88	117	205	29	39	68	1	43	6
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	52.8	50.4	52.4	112	154	266	37	51	89	8	158	7
N09000008	Mid and East Antrim		Northern Ireland	NI	64.5	53.0	58.8	111	128	239	37	43	80	2	71	8
N09000011	Ards and North Down		Northern Ireland	NI	53.0	47.6	49.3	116	137	253	39	46	84	10	200	9
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	61.7	48.5	54.0	91	109	200	30	36	67	5	134	10
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	52.3	57.7	52.7	86	122	208	29	41	69	7	155	11
S12000039	West Dunbartonshire		Scotland	SCO	89.1	86.0	87.8	82	125	207	27	42	69	1	1	1
S12000049	Glasgow City		Scotland	SCO	85.6	70.5	76.8	451	582	1,033	150	194	344	10	10	2
S12000021	North Ayrshire		Scotland	SCO	90.1	82.5	84.4	148	213	361	49	71	120	3	3	3
S12000018	Inverclyde		Scotland	SCO	87.4	70.2	76.5	83	110	193	28	37	64	11	12	4
S12000050	North Lanarkshire		Scotland	SCO	81.4	71.9	75.7	283	360	643	94	120	214	14	15	5
S12000042	Dundee City		Scotland	SCO	73.1	74.6	74.9	119	192	311	40	64	104	16	18	6
S12000008	East Ayrshire		Scotland	SCO	97.3	77.3	85.4	145	160	305	48	53	102	2	2	7
S12000005	Clackmannanshire		Scotland	SCO	63.5	92.7	81.6	42	76	118	14	25	39	6	6	8
S12000038	Renfrewshire		Scotland	SCO	92.0	76.2	83.0	192	236	428	64	79	143	5	5	9
S12000013	Na h-Eileanan Siar		Scotland	SCO	74.0	74.2	76.1	34	49	83	11	16	28	12	13	10
S12000029	South Lanarkshire		Scotland	SCO	82.6	72.0	77.1	315	402	717	105	134	239	9	9	11

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2019/21			Average number of annual stroke (CBVD) deaths for 2019/21			ASDR Rank (1 = highest 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	UK-wide	4N
S12000006	Dumfries and Galloway		Scotland	SCO	65.0	71.5	69.6	160	231	391	53	77	130	20	24	12
S12000028	South Ayrshire		Scotland	SCO	76.9	87.2	84.4	138	227	365	46	76	122	4	4	13
S12000019	Midlothian		Scotland	SCO	48.0	57.2	53.9	49	79	128	16	26	43	31	136	14
S12000040	West Lothian		Scotland	SCO	73.5	56.1	63.3	132	137	269	44	46	90	28	40	15
S12000014	Falkirk		Scotland	SCO	71.4	77.1	75.3	133	199	332	44	66	111	15	16	16
S12000047	Fife		Scotland	SCO	76.4	80.4	78.9	359	540	899	120	180	300	7	7	17
S12000017	Highland		Scotland	SCO	72.6	72.4	73.5	243	330	573	81	110	191	18	21	18
S12000035	Argyll and Bute		Scotland	SCO	72.2	68.8	71.1	99	127	226	33	42	75	19	22	19
S12000041	Angus		Scotland	SCO	80.0	72.4	75.8	137	182	319	46	61	106	13	14	20
S12000026	Scottish Borders		Scotland	SCO	68.8	68.4	69.5	122	161	283	41	54	94	21	25	21
S12000010	East Lothian		Scotland	SCO	75.7	55.2	62.6	100	109	209	33	36	70	29	44	22
S12000020	Moray		Scotland	SCO	78.3	77.9	77.9	103	144	247	34	48	82	8	8	23
S12000023	Orkney Islands		Scotland	SCO	64.7	71.3	68.6	23	32	55	8	11	18	22	26	24
S12000027	Shetland Islands		Scotland	SCO	38.6	31.0	35.3	13	12	25	4	4	8	32	355	25
S12000033	Aberdeen City		Scotland	SCO	67.6	69.0	68.1	146	238	384	49	79	128	23	29	26
S12000030	Stirling		Scotland	SCO	55.8	67.3	64.0	67	111	178	22	37	59	27	38	27
S12000048	Perth and Kinross		Scotland	SCO	63.9	69.1	67.3	148	235	383	49	78	128	25	31	28
S12000036	City of Edinburgh		Scotland	SCO	75.7	61.6	67.6	380	491	871	127	164	290	24	30	29
S12000034	Aberdeenshire		Scotland	SCO	69.9	76.6	74.2	212	327	539	71	109	180	17	20	30
S12000045	East Dunbartonshire		Scotland	SCO	49.5	61.5	57.2	79	143	222	26	48	74	30	89	31
S12000011	East Renfrewshire		Scotland	SCO	69.5	62.7	64.7	80	124	204	27	41	68	26	34	32
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	46.6	51.9	50.4	104	166	270	35	55	90	17	186	17
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	53.5	55.3	54.9	110	150	260	37	50	87	13	120	20
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	72.3	60.8	66.1	109	115	224	36	38	75	4	32	9
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	54.8	61.7	59.7	102	142	244	34	47	81	7	63	14
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	49.2	51.3	49.9	99	147	246	33	49	82	18	189	12
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	47.0	54.6	51.9	58	91	149	19	30	50	16	162	16
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	54.5	45.6	49.8	157	179	336	52	60	112	19	192	8
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	48.5	50.6	49.6	59	87	146	20	29	49	20	195	7
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	64.8	55.9	60.5	115	136	251	38	45	84	6	53	5
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	55.2	54.8	55.3	119	157	276	40	52	92	12	116	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	44.1	45.1	44.2	69	98	167	23	33	56	22	292	22
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	58.5	49.0	53.3	50	57	107	17	19	36	15	147	1
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	72.2	67.5	68.5	80	109	189	27	36	63	3	27	15
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	72.0	53.3	62.0	134	146	280	45	49	93	5	48	18
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	62.3	53.6	57.8	121	139	260	40	46	87	10	81	10
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	72.2	67.5	70.4	215	266	481	72	89	160	2	23	4
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	76.3	75.4	76.5	54	69	123	18	23	41	1	11	2
W06000023	Powys	Powys	Wales / Cymru	WAL	63.5	46.8	53.8	146	154	300	49	51	100	14	137	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	60.8	49.9	55.4	206	261	467	69	87	156	11	114	11
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	44.9	51.1	49.5	82	132	214	27	44	71	21	198	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	63.9	54.3	58.1	118	139	257	39	46	86	8	75	3
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	63.8	52.8	57.8	200	241	441	67	80	147	9	80	13

Notes: ICD-10 codes I60-I69. Directly standardised using the 2013 European Standard Population.
Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area
UK local authorities correct April 2023 - ASDRs for Somerset, North Yorkshire, Cumberland and Westmorland & Furness are provisional.
* indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)
Totals for male & female deaths may not equal total due to suppression of age-band cohorts in Nomis data - England & Wales only

Citation: BHF (2023) Analysis of official UK mortality data

Source: England: Number of Deaths are taken from Nomis Mortality Statistics <https://www.nomisweb.co.uk/datasets/mortsa>
Wales: Number of Deaths are taken from Nomis Mortality Statistics <https://www.nomisweb.co.uk/datasets/mortsa>
Scotland: Mortality rates calculated in partnership with NRS (National Records of Scotland)

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2019/21

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					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			<i>Total number of stroke (CBVD) deaths 2019/21</i>			Average number of annual stroke (CBVD) deaths for 2019/21			ASDR Rank (1 = highest 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	<i>Men</i>	<i>Women</i>	<i>Total</i>	Men	Women	Total	4N	UK-wide	4N

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.gov.uk/government/statistics/english-indices-of-deprivation-2019>

<https://statswales.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 Deaths and mortality rates for cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2019

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Region	Country	CVD Deaths 2019 estimate	CVD Death Rate (ASDR) 2019	CVD % All Deaths 2019	CHD Deaths 2019 estimate	CHD Death Rate (ASDR) 2019	CHD % All Deaths 2019	Stroke Deaths 2019 estimate	Stroke Death Rate (ASDR) 2019	Stroke % All Deaths 2019
GLOBAL		18,562,510	239.8	33%	9,137,791	118.0	16%	6,552,725	84.2	12%
EUROPE		3,970,970	233.5	44%	2,150,181	126.4	24%	1,108,872	64.4	12%
	Albania	12,904	314.0	57%	6,008	145.8	27%	5,605	136.0	25%
	Andorra	169	105.7	27%	76	47.8	12%	36	23.0	6%
	Austria	32,998	150.6	40%	18,087	83.3	22%	5,374	24.6	7%
	Belarus	75,339	463.1	62%	54,618	334.2	45%	16,906	103.3	14%
	Belgium	33,627	118.6	29%	15,146	54.8	13%	9,326	32.6	8%
	Bosnia and Herzegovina	18,828	343.5	50%	8,817	162.9	24%	7,533	134.9	20%
	Bulgaria	79,119	541.1	64%	34,450	239.1	28%	28,661	191.5	23%
	Croatia	24,721	265.8	47%	13,197	143.8	25%	7,558	78.9	14%
	Cyprus	3,112	190.3	36%	1,596	95.5	18%	745	45.8	9%
	Czechia	51,294	232.2	45%	32,960	149.0	29%	11,530	51.7	10%
	Denmark	15,330	118.8	28%	7,170	55.6	13%	4,540	35.1	8%
	Estonia	8,201	270.6	52%	4,434	144.2	28%	1,193	39.4	8%
	Finland	25,383	173.8	45%	14,812	100.6	26%	5,551	37.7	10%
	France	166,496	91.4	28%	68,325	38.4	11%	44,813	24.5	7%
	Germany	364,285	159.4	38%	184,323	81.4	19%	71,654	31.1	7%
	Greece	55,921	186.8	43%	26,142	91.9	20%	20,416	64.2	16%
	Hungary	61,818	301.6	48%	35,931	174.6	28%	13,091	63.5	10%
	Ireland	10,347	132.8	32%	5,810	74.7	18%	2,363	30.1	7%
	Italy	236,507	126.1	37%	101,159	55.3	16%	67,293	35.2	10%
	Latvia	15,779	356.8	58%	9,021	200.4	33%	4,876	105.9	18%
	Lithuania	21,301	328.8	55%	14,638	222.9	38%	4,886	74.1	13%
	Luxembourg	1,332	116.0	32%	617	54.2	15%	348	30.1	8%
	Malta	1,491	146.7	39%	920	90.8	24%	329	32.0	9%
	Moldova	23,438	405.0	57%	15,367	265.4	37%	5,623	96.7	14%
	Montenegro	3,943	435.5	58%	1,488	164.1	22%	1,882	206.6	28%
	Netherlands	42,569	113.0	27%	17,642	47.4	11%	12,511	33.0	8%
	North Macedonia	14,023	568.7	58%	5,156	209.9	21%	6,911	273.6	29%
	Norway	12,724	111.5	31%	6,271	55.5	15%	3,311	28.7	8%
	Poland	174,736	235.6	43%	97,188	130.3	24%	45,105	61.0	11%
	Portugal	37,353	127.9	32%	12,990	45.8	11%	16,695	56.0	14%
	Romania	150,427	379.6	57%	69,806	177.1	27%	52,826	131.4	20%
	Russian Federation	1,004,931	432.9	56%	562,609	240.6	31%	327,885	139.8	18%
	Serbia	63,769	448.8	54%	28,365	204.4	24%	25,768	174.7	22%
	Slovakia	26,796	298.9	49%	17,777	198.9	33%	5,881	64.8	11%
	Slovenia	7,797	151.1	37%	2,980	59.0	14%	2,050	39.8	10%
	Spain	131,493	106.8	31%	53,632	45.0	13%	37,092	29.3	9%
	Sweden	36,087	138.6	38%	18,975	73.7	20%	8,402	31.8	9%
	Switzerland	23,969	107.1	34%	12,371	55.7	18%	4,881	21.8	7%
	Ukraine	449,376	591.0	64%	325,874	424.2	47%	93,866	122.8	13%
	<i>United Kingdom **</i>	#	188,113	132.4	93,398	66.8	15%	50,633	34.5	8%
	<i>England **</i>	#	153,285	128.8	75,550	64.5	15%	40,480	32.9	8%
	<i>Scotland **</i>	#	19,285	160.0	9,925	83.7	16%	5,885	47.1	10%
	<i>Wales **</i>	#	10,519	141.0	5,321	72.6	16%	2,814	36.4	8%
	<i>Northern Ireland **</i>	#	5,024	138.6	2,601	72.5	15%	1,454	39.0	9%
NORTH AMERICA		1,040,308	151.7	32%	606,533	88.1	19%	207,979	30.0	6%
	Canada	82,644	107.9	29%	48,774	63.9	17%	18,478	23.6	6%
	United States	957,455	157.0	32%	557,649	91.0	19%	189,456	30.8	6%
LATIN AMERICA & CARIBBEAN		962,309	171.0	27%	493,002	87.5	14%	281,734	50.1	8%
	Brazil	397,993	175.7	28%	171,246	74.9	12%	131,007	58.1	9%
ASIA		10,832,421	253.1	35%	5,058,283	117.7	16%	4,377,903	101.8	14%
	China	4,584,273	276.9	43%	1,874,007	116.4	18%	2,189,175	127.2	21%
	India	2,574,410	256.4	27%	1,519,124	150.5	16%	699,078	69.5	7%
	Japan	372,483	77.0	27%	140,588	29.9	10%	144,662	29.7	10%
	Turkey	176,663	217.5	39%	99,046	121.0	22%	48,947	60.6	11%
	United Arab Emirates	8,621	325.9	30%	4,880	175.4	17%	2,168	91.3	7%
AFRICA		1,608,114	317.9	18%	765,149	154.0	9%	533,855	104.6	6%
	South Africa	82,661	222.7	16%	30,470	81.4	6%	29,770	80.6	6%
AUSTRALASIA		63,564	112.8	31%	33,125	59.0	16%	15,574	27.1	8%
	Australia	51,615	108.1	30%	26,633	56.1	16%	12,763	26.2	7%
	New Zealand	11,948	137.9	35%	6,492	75.0	19%	2,811	31.9	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 for 2021 are shown in table 1.1
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>

Citation: BHF (2021) Analysis of GBD mortality data

Source: Global Burden of Disease Collaborative Network.
Global Burden of Disease Study (2020) Results.
Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.
<http://ghdx.healthdata.org/gbd-results-tool>
[accessed March 2021]
[updates not available, because of the pandemic]

Table 1.31 Years of life lost (YLLs) and disability-adjusted life years (DALYs) for CVD, CHD, and stroke, by country and continent 2019

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Region	Country	YLLs CVD A/S 2019 estimate	YLLs CHD A/S 2019 estimate	YLLs Stroke A/S 2019 estimate	DALYs CVD A/S 2019	DALYs CHD A/S 2019	DALYs Stroke A/S 2019
GLOBAL		4,438.7	2,177.0	1,550.0	4,863.6	2,243.5	1,768.1
EUROPE		4,035.1	2,175.4	1,059.5	4,401.1	2,237.9	1,230.5
	Albania	4,967.4	2,362.6	2,007.0	5,433.4	2,442.1	2,204.8
	Andorra	1,571.2	735.8	329.3	1,827.4	775.0	430.5
	Austria	2,068.9	1,175.4	342.2	2,407.5	1,228.1	466.0
	Belarus	8,179.5	5,641.4	1,823.8	8,634.9	5,722.8	2,079.7
	Belgium	1,739.6	852.3	464.7	2,020.6	907.3	569.0
	Bosnia and Herzegovina	5,228.6	2,498.9	1,996.2	5,755.7	2,585.7	2,294.0
	Bulgaria	9,018.5	3,967.0	3,072.6	9,570.4	4,044.9	3,390.2
	Croatia	3,872.3	2,065.7	1,163.4	4,267.0	2,149.3	1,366.7
	Cyprus	2,681.5	1,488.3	569.0	2,938.6	1,538.1	671.2
	Czechia	3,436.5	2,142.8	730.3	3,909.2	2,242.4	931.7
	Denmark	1,720.9	809.8	500.9	1,967.8	846.8	608.5
	Estonia	4,260.1	2,109.1	641.1	4,651.4	2,188.1	812.8
	Finland	2,560.3	1,439.7	536.8	2,864.2	1,495.4	670.9
	France	1,348.5	593.3	357.2	1,628.2	634.3	453.6
	Germany	2,293.2	1,199.3	446.7	2,601.1	1,248.7	565.8
	Greece	2,935.2	1,602.1	871.4	3,198.3	1,650.9	990.8
	Hungary	4,951.0	2,773.8	1,040.7	5,419.9	2,855.5	1,284.2
	Ireland	1,934.0	1,122.0	400.6	2,193.5	1,168.8	497.1
	Italy	1,740.2	806.8	463.1	2,032.1	855.6	559.0
	Latvia	6,148.5	3,214.2	1,619.3	6,603.1	3,302.8	1,862.2
	Lithuania	5,376.2	3,403.2	1,192.6	5,824.0	3,484.8	1,426.0
	Luxembourg	1,664.6	803.8	416.1	1,980.6	861.4	513.2
	Malta	2,233.7	1,406.6	456.0	2,511.2	1,468.4	557.2
	Moldova	6,940.7	4,313.2	1,796.8	7,350.9	4,393.5	2,009.5
	Montenegro	6,875.1	2,733.5	3,067.3	7,344.7	2,825.9	3,315.5
	Netherlands	1,622.5	724.0	453.8	1,883.1	770.4	563.6
	North Macedonia	8,386.9	3,258.0	3,945.6	8,903.0	3,335.0	4,265.9
	Norway	1,561.8	810.6	378.0	1,901.0	868.6	540.5
	Poland	3,733.8	1,986.9	991.1	4,182.8	2,081.4	1,187.3
	Portugal	1,882.7	726.2	771.2	2,149.6	765.1	891.6
	Romania	6,157.7	2,852.0	2,080.8	6,643.7	2,933.5	2,345.9
	Russian Federation	8,003.4	4,218.3	2,333.3	8,476.9	4,300.7	2,601.3
	Serbia	6,393.0	2,934.0	2,452.3	6,881.8	3,017.0	2,742.8
	Slovakia	4,649.2	2,947.5	1,047.1	5,134.0	3,039.4	1,278.6
	Slovenia	2,170.2	913.4	569.3	2,546.3	992.2	722.3
	Spain	1,580.3	715.4	402.6	1,834.1	757.1	502.5
	Sweden	1,913.5	1,042.4	418.6	2,329.2	1,125.1	572.1
	Switzerland	1,420.2	760.8	279.9	1,649.9	801.3	372.3
	Ukraine	10,845.0	7,307.8	2,270.2	11,316.7	7,400.2	2,533.5
	United Kingdom	2,089.9	1,105.7	481.0	2,362.4	1,147.4	579.0
	<i>England</i>	<i>2,022.8</i>	<i>1,059.8</i>	<i>459.1</i>	<i>2,289.6</i>	<i>1,101.1</i>	<i>547.0</i>
	<i>Scotland</i>	<i>2,611.1</i>	<i>1,449.6</i>	<i>660.3</i>	<i>2,935.9</i>	<i>1,489.6</i>	<i>842.2</i>
	<i>Wales</i>	<i>2,257.0</i>	<i>1,225.0</i>	<i>509.3</i>	<i>2,540.4</i>	<i>1,273.9</i>	<i>629.0</i>
	<i>Northern Ireland</i>	<i>2,170.1</i>	<i>1,187.3</i>	<i>533.2</i>	<i>2,427.9</i>	<i>1,234.0</i>	<i>632.8</i>
NORTH AMERICA		2,648.7	1,517.7	485.4	3,098.8	1,569.0	689.5
	Canada	1,690.7	1,020.3	332.0	2,083.1	1,069.1	486.2
	United States	2,763.3	1,577.7	503.7	3,220.5	1,629.4	713.9
LATIN AMERICA & CARIBBEAN		3,223.0	1,621.6	952.9	3,497.6	1,681.3	1,060.0
	Brazil	3,454.4	1,500.6	1,098.7	3,769.7	1,563.3	1,219.6
ASIA		4,721.5	2,239.2	1,851.3	5,169.0	2,310.5	2,102.2
	China	4,393.8	1,791.6	2,097.7	4,938.4	1,885.9	2,412.5
	India	5,300.5	3,146.5	1,391.6	5,587.4	3,201.4	1,505.3
	Japan	1,265.9	502.5	483.0	1,620.5	529.5	730.1
	Turkey	3,611.6	2,060.9	971.3	3,982.9	2,128.4	1,162.6
	United Arab Emirates	5,968.2	3,283.0	1,589.3	6,504.6	3,370.1	1,925.6
AFRICA		5,913.6	2,800.1	1,963.9	6,350.9	2,859.0	2,171.7
	South Africa	3,867.7	1,435.1	1,360.3	4,290.4	1,486.7	1,567.9
AUSTRALASIA		1,649.8	880.2	357.6	1,951.2	926.5	460.6
	Australia	1,568.8	831.6	342.3	1,874.1	879.0	445.2
	New Zealand	2,084.4	1,139.5	439.8	2,364.4	1,180.1	543.7

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>
Citation: BHF (2021) Analysis of GBD data
Source: Global Burden of Disease Collaborative Network. <http://ghdx.healthdata.org/gbd-results-tool>
Global Burden of Disease Study (2020) Results. [accessed March 2021]
Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020. [updates not available, because of the pandemic]



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Table 2.1 Inpatient admissions by main diagnosis in National Health Service hospitals by sex, England, Scotland, Wales, Northern Ireland and United Kingdom 2021/22

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	England		Scotland		Wales		Northern Ireland		United Kingdom		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
All diagnoses	7,229,700	8,742,400	497,997	544,641	299,687	373,639	228,000	218,000	8,255,384	9,878,680	18,141,454
All heart and circulatory diseases (C38.0, F01, G45, I00-I99, P29, Q20-Q28)	559,200	422,200	46,592	35,104	28,259	20,476	16,630	10,540	650,681	488,320	1,139,140
Diseases of the circulatory system (I00-I99)	536,400	400,100	44,793	33,299	27,364	19,542	16,170	10,180	624,727	463,121	1,087,912
Coronary heart disease (I20-I25)	155,030	74,850	14,756	7,452	8,472	4,150	6,670	2,590	184,928	89,042	273,991
<i>Angina pectoris (I20)</i>	26,500	16,250	2,611	1,631	910	649	710	300	30,731	18,830	49,569
<i>Myocardial infarction (I21-I22)</i>	56,300	28,300	6,902	3,563	3,744	1,865	2,490	1,390	69,436	35,118	104,587
Stroke (I60-I69)	60,360	55,370	6,434	5,933	3,872	3,598	650	610	71,316	65,511	136,839
Atrial fibrillation (I48)	61,670	52,220	4,715	4,003	2,733	2,103	1,610	1,190	70,728	59,516	130,258
Heart failure (I50)	52,650	46,230	4,098	3,662	2,643	2,213	1,570	1,380	60,961	53,485	114,452
Other cardiovascular disease (I00-99 only; not listed above)	206,690	171,430	14,790	12,249	9,644	7,478	5,670	4,410	236,794	195,567	432,372
Malignant neoplasm: Heart (C38.0)	101	30	*	*	*	20	*	*	101	50	151
Vascular dementia (F01)	1,370	1,390	126	119	192	194	24	9	1,712	1,712	3,426
Transient cerebral ischaemic attacks and related syndromes (G45)	9,370	10,140	1,194	1,272	499	555	79	66	11,142	12,033	23,184
Cardiovascular disorders originating in the perinatal period (P29)	1,990	1,830	*	*	37	34	68	54	2,095	1,918	4,021
Congenital malformations of the circulatory system (Q20-Q28)	9,920	8,810	479	414	167	131	290	230	10,856	9,585	20,446

Notes: Pregnancy cases not included. ICD-10 codes in parentheses. Sex (gender) not recorded for a small number of admissions (England only)

For England and Northern Ireland, male/female splits are pro rata estimates based on finished consultant episodes volumes, rounded.

Recent Wales data subject to revision. Scottish all diagnosis totals exclude some codes (ICD-10 codes U,V,W,X,Y)

* figures not available, or suppressed (usually fewer than five patients)

Citation: BHF (2023) Analysis of UK hospital data

Source: England - NHS England (2022). Hospital Episode Statistics 2021/22

<https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/2021-22>

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<https://www.health-ni.gov.uk/publications/acute-episode-based-activity-downloadable-data-202122-0>

Table 2.2a All inpatient admissions by main diagnosis in NHS hospitals, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2021/22

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ALL ADMISSIONS		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	2019/20	2020/21	2021/22
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	963,783	807,074	936,556
	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	255,562	205,389	229,895
	Myocardial infarction (I21-I22)			77,055	74,230	69,919	62,268	64,088	76,245	78,174	78,278	79,795	80,621	81,637	81,200	82,827	76,150	84,626
	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	117,608	96,009	113,902
	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	94,146	81,766	98,884
	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	114,991	108,958	115,741
	Other cardiovascular disease (I00-99 only; not listed above)			354,527	374,927	387,967	397,938	398,086	385,920	399,533	413,389	433,987	354,050	358,456	373,200	381,508	314,952	378,134
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	83,099	70,704	78,092
	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	24,288	20,840	22,208
	Myocardial infarction (I21-I22)				9,540	9,927	10,980	11,387	11,224	11,095	10,694	10,437	10,651	10,559	10,583	10,625	10,120	10,465
	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	9,609	7,582	8,718
	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	8,138	7,204	7,760
	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	12,068	11,535	12,367
	Other cardiovascular disease (I00-99 only; not listed above)				37,849	37,659	36,599	36,603	37,019	37,644	37,027	37,802	30,585	30,191	29,554	28,996	23,543	27,039
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	48,579	40,146	46,906
	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	13,727	11,359	12,622
	Myocardial infarction (I21-I22)	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	5,055	4,831	5,609
	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	5,195	4,026	4,836
	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	4,686	3,922	4,856
	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	7,417	7,080	7,470
	Other cardiovascular disease (I00-99 only; not listed above)	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	17,554	13,759	17,122
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	32,505	22,610	26,358
	Coronary heart disease (I20-I25)							12,300	12,700	13,700	13,000	12,700	12,100	11,600	12,000	11,232	8,016	9,266
	Myocardial infarction (I21-I22)							2,600	3,600	4,100	4,100	4,300	4,500	4,400	4,200	4,330	3,327	3,887
	Atrial fibrillation (I48)							4,000	3,900	3,800	3,800	4,300	4,100	3,900	3,800	3,808	2,446	2,802
	Heart Failure (I50)							2,400	2,700	2,800	2,800	2,800	2,900	3,000	3,200	3,585	2,738	2,952
	Stroke (I60-I69)							2,200	2,000	2,200	1,660	1,450	1,400	1,420	1,310	1,234	1,147	1,261
	Other cardiovascular disease (I00-99 only; not listed above)							18,100	14,400	14,300	14,540	13,450	12,300	12,180	12,690	12,646	8,263	10,077
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	1,127,966	940,534	1,087,912
	Coronary heart disease (I20-I25)							335,851	330,552	328,162	320,939	318,154	317,115	312,763	311,519	304,809	245,604	273,991
	Myocardial infarction (I21-I22)							82,185	95,606	98,114	97,695	99,857	101,002	101,845	100,963	102,837	94,428	104,587
	Atrial fibrillation (I48)							114,787	116,766	119,556	121,029	127,122	128,624	128,580	134,707	136,220	110,063	130,258
	Heart Failure (I50)							74,534	76,743	78,459	84,453	91,667	95,764	99,840	101,938	110,555	95,630	114,452
	Stroke (I60-I69)							127,312	127,963	127,513	128,038	129,744	128,571	129,556	131,862	135,710	128,720	136,839
	Other cardiovascular disease (I00-99 only; not listed above)							473,661	457,753	472,780	486,206	506,355	414,484	417,478	433,323	440,704	360,517	432,372

Notes: Pregnancy cases not included. ICD-10 codes in parentheses. Recent Welsh data are subject to revision. Sex (gender) not recorded for a small number of admissions (England only)

Citation: BHF (2023) Analysis of UK hospital data

Source: England - NHS England (2022). Hospital Statistics to 2021/22

Public Health Scotland (2023). Personal correspondence

Digital Health and Care Wales (2023). Personal correspondence and PEDW archive

NI Department of Health (2022). Hospital Statistics to 2021/22

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

<https://nwis.nhs.wales/information-services/health-intelligence/pedw-data-online/>

<https://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 to 2021/22

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MALE		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	2019/20	2020/21	2021/22
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	553,477	460,200	536,400
	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	171,391	137,500	155,030
	Myocardial infarction (I21-I22)			49,467	47,414	44,858	39,442	40,682	49,433	51,347	51,398	52,530	53,484	54,367	52,800	54,114	50,200	56,300
	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	64,437	50,700	61,670
	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	50,426	44,000	52,650
	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	59,116	57,000	60,360
	Other cardiovascular disease (I00-99 only; not listed above)			185,962	198,081	205,132	210,983	214,350	208,641	215,456	220,453	231,807	193,237	196,731	203,400	210,487	171,000	206,690
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	47,517	40,144	44,793
	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	15,980	13,694	14,756
	Myocardial infarction (I21-I22)				5,936	6,175	6,762	7,097	7,021	6,856	6,744	6,593	6,782	6,668	6,723	6,876	6,526	6,902
	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	5,234	3,961	4,715
	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	4,404	3,820	4,098
	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	6,191	6,000	6,434
	Other cardiovascular disease (I00-99 only; not listed above)				19,023	18,982	18,770	18,874	19,166	19,533	19,346	19,894	16,517	16,357	16,009	15,708	12,669	14,790
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	28,107	23,072	27,364
	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	9,134	7,594	8,472
	Myocardial infarction (I21-I22)	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	3,365	3,158	3,744
	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	2,978	2,153	2,733
	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	2,497	2,084	2,643
	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	3,783	3,614	3,872
	Other cardiovascular disease (I00-99 only; not listed above)	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	8,762	7,627	9,644
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	19,373	13,440	16,170
	Coronary heart disease (I20-I25)							8,300	8,600	9,500	9,000	8,800	8,300	8,100	8,400	8,040	5,700	6,670
	Myocardial infarction (I21-I22)							1,600	2,300	2,700	2,700	2,800	3,000	3,000	2,900	2,975	2,300	2,490
	Atrial fibrillation (I48)							2,300	2,100	2,100	2,200	2,400	2,300	2,200	2,100	2,200	1,400	1,610
	Heart Failure (I50)							1,100	1,300	1,400	1,400	1,400	1,400	1,500	1,600	1,866	1,400	1,570
	Stroke (I60-I69)							1,100	1,000	1,100	830	740	660	680	630	611	540	650
	Other cardiovascular disease (I00-99 only; not listed above)							9,400	7,100	7,200	7,270	6,860	6,440	6,220	6,570	6,856	4,400	5,670
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	648,474	536,856	624,727
	Coronary heart disease (I20-I25)							223,285	221,228	220,635	216,351	214,654	214,334	212,195	208,326	204,545	164,488	184,928
	Myocardial infarction (I21-I22)							51,933	61,598	63,944	63,856	65,354	66,634	67,448	65,699	67,330	62,184	69,436
	Atrial fibrillation (I48)							64,434	65,698	66,670	67,918	71,973	73,008	72,909	73,836	74,849	58,214	70,728
	Heart Failure (I50)							39,311	40,567	41,701	45,191	49,332	51,802	54,620	54,806	59,194	51,304	60,961
	Stroke (I60-I69)							63,235	63,942	63,822	64,568	66,180	65,949	66,465	67,546	69,701	67,154	71,316
	Other cardiovascular disease (I00-99 only; not listed above)							253,661	245,932	253,476	258,455	269,928	225,926	228,372	235,847	241,813	195,696	236,794

Notes: Pregnancy cases not included. ICD-10 codes in parentheses. Recent Welsh data are subject to revision. Sex (gender) not recorded for a small number of admissions (England only)

For some years for England and Northern Ireland, male/female splits are pro rata estimates based on finished consultant episodes volumes, rounded.

Citation: BHF (2023) Analysis of UK hospital data

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NI Department of Health (2022). Hospital Statistics to 2021/22

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

<https://nwis.nhs.wales/information-services/health-intelligence/pedw-data-online/>

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

Table 2.2c Inpatient admissions by main diagnosis in NHS hospitals in women, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2021/22

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FEMALE		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	2019/20	2020/21	2021/22
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	410,306	347,000	400,100
	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	84,171	67,900	74,850
	Myocardial infarction (I21-I22)			27,588	26,816	25,061	22,826	23,406	26,812	26,827	26,880	27,265	27,137	27,270	28,400	28,713	26,000	28,300
	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	53,172	45,300	52,220
	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	43,720	38,000	46,230
	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	55,875	52,000	55,370
	Other cardiovascular disease (I00-99 only; not listed above)			168,565	176,846	182,835	186,955	183,736	177,279	184,077	192,936	202,180	160,813	161,725	169,800	171,020	143,800	171,430
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	35,582	30,560	33,299
	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	8,308	7,146	7,452
	Myocardial infarction (I21-I22)				3,604	3,752	4,218	4,290	4,203	4,239	3,950	3,844	3,869	3,891	3,860	3,749	3,594	3,563
	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	4,375	3,621	4,003
	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	3,734	3,384	3,662
	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	5,877	5,535	5,933
	Other cardiovascular disease (I00-99 only; not listed above)				18,826	18,677	17,829	17,729	17,853	18,111	17,681	17,908	14,068	13,834	13,545	13,288	10,874	12,249
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	20,472	17,074	19,542
	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	4,593	3,765	4,150
	Myocardial infarction (I21-I22)	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	1,690	1,673	1,865
	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	2,217	1,873	2,103
	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	2,189	1,838	2,213
	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	3,634	3,466	3,598
	Other cardiovascular disease (I00-99 only; not listed above)	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	7,839	6,132	7,478
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	13,132	9,200	10,180
	Coronary heart disease (I20-I25)							4,000	4,100	4,200	4,000	3,900	3,800	3,500	3,600	3,192	2,300	2,590
	Myocardial infarction (I21-I22)							1,000	1,300	1,400	1,400	1,500	1,500	1,400	1,300	1,355	1,000	1,390
	Atrial fibrillation (I48)							1,700	1,800	1,700	1,600	1,900	1,800	1,700	1,700	1,608	1,100	1,190
	Heart Failure (I50)							1,300	1,400	1,400	1,400	1,400	1,500	1,500	1,600	1,719	1,300	1,380
	Stroke (I60-I69)							1,100	1,000	1,100	830	710	740	740	680	623	600	610
	Other cardiovascular disease (I00-99 only; not listed above)							8,700	7,300	7,100	7,270	6,590	5,860	5,960	6,120	5,790	3,900	4,410
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	479,492	403,834	463,121
	Coronary heart disease (I20-I25)							112,566	109,324	107,527	104,588	103,500	102,781	100,568	103,193	100,265	81,111	89,042
	Myocardial infarction (I21-I22)							30,252	34,008	34,170	33,839	34,503	34,368	34,397	35,264	35,506	32,267	35,118
	Atrial fibrillation (I48)							50,353	51,068	52,886	53,111	55,149	55,616	55,671	60,871	61,371	51,894	59,516
	Heart Failure (I50)							35,223	36,176	36,758	39,262	42,335	43,962	45,220	47,132	51,362	44,522	53,485
	Stroke (I60-I69)							64,077	64,021	63,691	63,470	63,564	62,622	63,091	64,316	66,009	61,601	65,511
	Other cardiovascular disease (I00-99 only; not listed above)							220,000	211,821	219,304	227,751	236,427	188,558	189,106	197,476	197,938	164,706	195,567

Notes: Pregnancy cases not included. ICD-10 codes in parentheses. Recent Welsh data are subject to revision. Sex (gender) not recorded for a small number of admissions (England only)
For some years for England and Northern Ireland, male/female splits are pro rata estimates based on finished consultant episodes volumes, rounded.

Citation: BHF (2023) Analysis of UK hospital data

Source: England - NHS England (2022). Hospital Statistics to 2021/22

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

<https://nwis.nhs.wales/information-services/health-intelligence/pedw-data-online/>

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

Table 2.3 Inpatient episodes by main diagnosis in National Health Service hospitals by sex, England, Scotland, Wales, Northern Ireland and United Kingdom 2021/22

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	England		Scotland		Wales		Northern Ireland		United Kingdom,		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
All diagnoses	8,879,634	10,737,619	719,145	776,655	366,992	442,904	299,000	287,000	10,264,771	12,244,178	22,518,040
All heart and circulatory diseases (C38.0, F01, G45, I00-I99, P29, Q20-Q28)	910,837	686,875	94,840	72,064	42,149	31,134	25,307	16,630	1,073,133	806,703	1,879,974
Diseases of the circulatory system (I00-I99)	878,393	655,027	91,864	69,070	40,970	29,888	24,697	16,167	1,035,924	770,152	1,806,203
Coronary heart disease (I20-I25)	247,860	119,678	31,024	15,656	12,583	6,220	8,972	3,486	300,439	145,040	445,503
<i>Angina pectoris (I20)</i>	40,561	24,881	3,773	2,309	1,259	877	1,047	442	46,640	28,509	75,157
<i>Myocardial infarction (I21-I22)</i>	113,376	56,997	16,778	8,963	6,479	3,192	3,887	2,006	140,414	71,264	211,690
Stroke (I60-I69)	119,037	109,208	15,896	14,700	6,140	5,751	1,147	1,090	142,220	130,749	272,988
Atrial fibrillation (I48)	87,912	74,439	6,962	6,553	3,586	3,007	2,267	1,666	100,727	85,665	186,412
Heart failure (I50)	115,040	101,003	9,908	9,392	4,934	4,146	3,400	2,991	133,282	117,532	250,821
Other cardiovascular disease (I00-99 only; not listed above)	308,544	250,699	28,074	22,769	13,727	10,764	8,911	6,934	359,256	291,166	650,479
Malignant neoplasm: Heart (C38.0)	123	37	*	11	*	22	*	*	123	59	182
Vascular dementia (F01)	3,346	3,382	300	286	319	318	77	31	4,042	4,017	8,059
Transient cerebral ischaemic attacks and related syndromes (G45)	13,660	14,762	1,798	2,056	638	731	146	122	16,242	17,671	33,913
Cardiovascular disorders originating in the perinatal period (P29)	2,290	2,108	*	*	39	37	70	56	2,399	2,201	4,603
Congenital malformations of the circulatory system (Q20-Q28)	13,025	11,559	878	652	183	138	317	254	14,403	12,603	27,014

Notes: Finished consultant episodes (FCE); admissions and day cases combined. Pregnancy cases excluded. Sex (gender) not recorded for some English FCEs.

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.

Recent Wales data subject to revision. Scottish all diagnosis totals exclude some codes (ICD-10 codes U,V,W,X,Y)

* figures not available, or suppressed (usually fewer than five patients)

Citation: BHF (2023) Analysis of UK hospital data

Source: England - NHS England (2022). Hospital Episode Statistics 2021/22

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<https://www.health-ni.gov.uk/publications/acute-episode-based-activity-downloadable-data-202122-0>

Table 2.4a All inpatient episodes by main diagnosis in NHS hospitals, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2021/22

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ALL EPISODES (FCEs)		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	2019/20	2020/21	2021/22
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	1,534,214	1,321,489	1,533,547
	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	393,933	322,111	367,562
	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	166,474	147,063	170,385
	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	164,226	139,173	162,371
	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	205,378	177,242	216,050
	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	220,843	209,675	228,264
	Other cardiovascular disease (I00-99 only; not listed above)	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	549,834	473,288	559,300
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	170,271	148,282	160,934
	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	51,476	43,724	46,680
	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	27,021	24,551	25,741
	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	14,957	11,980	13,515
	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	19,658	17,345	19,300
	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	29,268	29,308	30,596
	Other cardiovascular disease (I00-99 only; not listed above)				52,465	52,363	52,502	52,828	53,739	56,647	56,600	60,582	53,522	53,226	53,136	54,912	45,925	50,843
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	75,052	63,841	70,858
	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	20,724	17,951	18,803
	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	9,135	8,990	9,671
	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	7,414	5,941	6,593
	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	9,517	7,652	9,080
	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	11,456	11,438	11,891
	Other cardiovascular disease (I00-99 only; not listed above)	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	25,941	20,859	24,491
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	46,189	35,999	40,864
	Coronary heart disease (I20-I25)						14,409	14,060	14,520	15,378	15,014	14,963	14,262	14,158	15,262	14,704	11,240	12,458
	Myocardial infarction (I21-I22)							3,540	4,614	5,288	5,369	5,776	5,985	6,081	6,243	6,636	5,461	5,893
	Atrial fibrillation (I48)							4,490	4,518	4,410	4,478	5,205	4,859	4,824	4,982	5,052	3,586	3,933
	Heart Failure (I50)							3,660	4,131	4,360	4,731	5,011	4,990	5,427	6,093	6,758	6,077	6,391
	Stroke (I60-I69)						4,872	3,199	2,943	3,383	2,486	2,202	2,208	2,313	2,219	2,094	1,962	2,237
	Other cardiovascular disease (I00-99 only; not listed above)							21,208	16,763	16,765	17,883	17,107	16,196	16,294	17,651	17,581	13,134	15,845
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	1,825,726	1,569,611	1,806,203
	Coronary heart disease (I20-I25)						496,412	500,668	493,263	492,283	480,943	481,728	483,825	483,945	490,292	480,837	395,026	445,503
	Myocardial infarction (I21-I22)							160,310	182,390	189,939	188,385	197,055	201,841	205,032	207,449	209,266	186,065	211,690
	Atrial fibrillation (I48)							157,390	160,913	164,989	166,624	175,427	177,583	177,894	190,614	191,649	160,680	186,412
	Heart Failure (I50)							145,447	152,754	160,191	173,744	191,278	201,082	212,474	221,967	241,311	208,316	250,821
	Stroke (I60-I69)						239,005	232,923	236,172	239,515	240,146	246,617	248,946	254,193	258,455	263,661	252,383	272,988
	Other cardiovascular disease (I00-99 only; not listed above)							629,960	612,198	636,098	651,799	684,732	594,966	605,825	634,739	648,268	553,206	650,479

Notes: Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses. Sex (gender) not recorded for a small number of admissions (England only)

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

Recent Welsh data are subject to revision.

Citation: BHF (2023) Analysis of UK hospital data

Source: England - NHS England (2022). Hospital Statistics to 2021/22

Public Health Scotland (2023). Personal correspondence

Digital Health and Care Wales (2023). Personal correspondence and PEDW archive

NI Department of Health (2022). Hospital Statistics to 2021/22

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

<https://nwis.nhs.wales/information-services/health-intelligence/pedw-data-online/>

<https://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 to 2021/22

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MALE		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	2019/20	2020/21	2021/22
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	881,061	748,623	878,393
	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	264,188	213,389	247,860
	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	108,764	96,325	113,376
	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	89,978	72,931	87,912
	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	110,004	94,870	115,040
	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	113,534	109,633	119,037
	Other cardiovascular disease (I00-99 only; not listed above)	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	303,357	257,800	308,544
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	97,301	83,988	91,864
	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	34,176	28,692	31,024
	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	17,404	15,741	16,778
	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	7,766	6,068	6,962
	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	10,419	9,022	9,908
	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	15,408	15,049	15,896
	Other cardiovascular disease (I00-99 only; not listed above)				27,177	27,351	27,740	27,979	28,607	30,218	30,302	32,954	29,501	29,405	29,294	29,532	25,157	28,074
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	43,070	36,351	40,970
	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	13,768	11,865	12,583
	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	6,075	5,874	6,479
	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	4,049	3,074	3,586
	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	5,033	4,060	4,934
	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	5,819	5,807	6,140
	Other cardiovascular disease (I00-99 only; not listed above)	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	14,401	11,545	13,727
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	27,529	21,294	24,697
	Coronary heart disease (I20-I25)						9,800	9,521	9,846	10,697	10,418	10,386	9,798	9,863	10,669	10,525	7,987	8,972
	Myocardial infarction (I21-I22)							2,186	2,962	3,461	3,518	3,784	3,938	4,082	4,327	4,554	3,781	3,887
	Atrial fibrillation (I48)							2,605	2,410	2,458	2,559	2,876	2,777	2,702	2,764	2,919	1,988	2,267
	Heart Failure (I50)							1,702	1,977	2,175	2,382	2,522	2,397	2,725	3,022	3,518	3,191	3,400
	Stroke (I60-I69)						2,485	1,628	1,437	1,742	1,242	1,126	1,039	1,108	1,071	1,036	931	1,147
	Other cardiovascular disease (I00-99 only; not listed above)							11,135	8,484	8,602	9,172	9,012	8,739	8,634	9,466	9,531	7,197	8,911
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	1,048,961	890,256	1,035,924
	Coronary heart disease (I20-I25)						323,010	326,136	323,705	324,605	318,102	318,408	321,138	322,268	327,589	322,657	261,933	300,439
	Myocardial infarction (I21-I22)							98,146	114,500	120,536	120,100	125,638	129,855	132,310	134,783	136,797	121,721	140,520
	Atrial fibrillation (I48)							84,722	86,712	88,333	89,415	95,321	96,362	96,522	103,509	104,712	84,061	100,727
	Heart Failure (I50)							75,888	79,853	84,346	91,549	101,303	106,684	114,244	119,247	128,974	111,143	133,282
	Stroke (I60-I69)						115,957	113,368	115,875	118,273	119,212	123,365	125,462	127,851	132,326	135,797	131,420	142,220
	Other cardiovascular disease (I00-99 only; not listed above)							339,109	330,245	342,532	349,784	369,076	325,583	332,507	349,950	356,821	301,699	359,256

Notes: Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses. Sex (gender) not recorded for a small number of admissions (England only)
** Scotland - figures for 2012/13 to 2014/15 do not include subsequent myocardial infarction (I22)
Recent Welsh data are subject to revision.

Citation: BHF (2023) Analysis of UK hospital data

Source: England - NHS England (2022). Hospital Statistics to 2021/22 <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>
Public Health Scotland (2023). Personal correspondence <https://nwis.nhs.wales/information-services/health-intelligence/pedw-data-online/>
Digital Health and Care Wales (2023). Personal correspondence and PEDW archive <https://www.health-ni.gov.uk/articles/episode-based-activity>
NI Department of Health (2022). Hospital Statistics to 2021/22

Table 2.4c Inpatient episodes by main diagnosis in NHS hospitals in women, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2021/22

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FEMALE		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	2019/20	2020/21	2021/22
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	653,153	564,155	655,027
	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	129,745	105,302	119,678
	Myocardial infarction (I21-I22)	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	57,710	49,885	56,997
	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	74,248	65,227	74,439
	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	95,374	81,912	101,003
	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	107,309	100,000	109,208
	Other cardiovascular disease (I00-99 only; not listed above)	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	246,477	211,714	250,699
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	72,970	64,294	69,070
	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	17,300	15,032	15,656
	Myocardial infarction (I21-I22)				7,183	7,937	9,271	9,532	9,205	10,103	9,471	9,972	9,994	9,699	9,859	9,617	8,810	8,963
	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	7,191	5,912	6,553
	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	9,239	8,323	9,392
	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	15,210	14,259	14,700
	Other cardiovascular disease (I00-99 only; not listed above)				25,288	25,012	24,762	24,849	25,132	26,429	26,298	27,628	24,021	23,821	23,842	24,030	20,768	22,769
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	31,982	27,490	29,888
	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	6,956	6,086	6,220
	Myocardial infarction (I21-I22)	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	3,060	3,116	3,192
	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	3,365	2,867	3,007
	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	4,484	3,592	4,146
	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	5,637	5,631	5,751
	Other cardiovascular disease (I00-99 only; not listed above)	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	11,540	9,314	10,764
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	18,660	14,705	16,167
	Coronary heart disease (I20-I25)						4,609	4,539	4,674	4,681	4,596	4,577	4,464	4,295	4,593	4,179	3,253	3,486
	Myocardial infarction (I21-I22)							1,354	1,652	1,827	1,851	1,992	2,047	1,999	1,916	2,082	1,680	2,006
	Atrial fibrillation (I48)							1,885	2,108	1,952	1,919	2,329	2,082	2,122	2,218	2,133	1,598	1,666
	Heart Failure (I50)							1,958	2,154	2,185	2,349	2,489	2,593	2,702	3,071	3,240	2,886	2,991
	Stroke (I60-I69)						2,387	1,571	1,506	1,641	1,244	1,076	1,169	1,205	1,148	1,058	1,031	1,090
	Other cardiovascular disease (I00-99 only; not listed above)							10,073	8,279	8,163	8,711	8,095	7,457	7,660	8,185	8,050	5,937	6,934
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	776,765	670,644	770,152
	Coronary heart disease (I20-I25)						173,402	174,532	169,558	167,678	162,841	163,320	162,687	161,677	162,703	158,180	129,673	145,040
	Myocardial infarction (I21-I22)							62,164	67,890	69,403	68,285	71,417	71,986	72,722	72,666	72,469	63,491	71,158
	Atrial fibrillation (I48)							72,668	74,201	76,656	77,209	80,106	81,221	81,372	87,105	86,937	75,604	85,665
	Heart Failure (I50)							69,559	72,901	75,845	82,195	89,975	94,398	98,230	102,720	112,337	96,713	117,532
	Stroke (I60-I69)						123,048	119,555	120,297	121,242	120,934	123,252	123,484	126,342	126,129	129,214	120,921	130,749
	Other cardiovascular disease (I00-99 only; not listed above)							290,851	281,953	293,566	302,015	315,656	269,383	273,318	284,789	290,097	247,733	291,166

Notes: Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses. Sex (gender) not recorded for a small number of admissions (England only)

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)

Recent Welsh data are subject to revision.

Citation: BHF (2023) Analysis of UK hospital data

Source: England - NHS England (2022). Hospital Statistics to 2021/22.

Public Health Scotland (2023). Personal correspondence.

Digital Health and Care Wales (2023). Personal correspondence and PEDW archive

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

<https://nwis.nhs.wales/information-services/health-intelligence/pedw-data-online/>

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

Table 2.5 Incidence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD) by nation and region, United Kingdom 2019

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Country	English Region	Incidence CVD 2019 est	Incidence A/S CVD 2019 est	Incidence CHD 2019 est	Incidence A/S CHD 2019 est	Incidence Stroke 2019 est	Incidence Stroke A/S 2019
	East Midlands	48,848	564.1	16,753	187.9	5,257	60.0
	East of England	62,304	552.2	20,773	176.6	6,781	58.0
	Greater London	61,360	543.6	19,584	169.4	6,558	56.2
	North East England	29,784	612.2	10,998	220.7	3,125	64.0
	North West England	76,284	596.7	26,512	201.7	8,321	64.2
	South East England	87,621	536.6	27,401	161.3	9,706	57.0
	South West England	59,197	543.3	19,515	171.8	6,719	59.0
	West Midlands	56,723	556.1	18,842	179.2	6,376	60.7
	Yorkshire and the Humber	55,112	572.5	19,755	200.3	6,055	61.9
<i>England</i>		537,232	559.9	180,133	181.8	58,900	59.7
<i>Scotland</i>		56,500	551.9	19,880	189.1	9,071	86.7
<i>Wales</i>		32,179	525.7	12,046	190.0	3,999	65.2
<i>Northern Ireland</i>		16,597	532.7	5,973	187.3	2,217	70.5
United Kingdom		642,508	556.7	218,032	183.0	74,187	62.6

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

Citation:

BHF (2021) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2019 (GBD 2019) Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

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

[accessed March 2021]

[no updates Mar 2023]

Table 2.6 Incidence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2019

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Region	Country	Incidence CVD 2019 est	Incidence A/S CVD 2019 est	Incidence CHD 2019 est	Incidence A/S CHD 2019 est	Incidence Stroke 2019 est	Incidence Stroke A/S 2019
GLOBAL		55,451,741	684.3	21,203,479	262.4	12,224,551	150.8
EUROPE		10,386,576	704.0	4,483,454	289.6	1,691,127	115.9
	Albania	28,094	697.5	10,442	246.3	6,410	158.2
	Andorra	708	516.8	250	180.6	95	69.3
	Austria	107,625	654.2	37,747	215.4	13,290	80.2
	Belarus	159,263	1,018.5	87,861	546.1	28,386	187.3
	Belgium	116,242	546.5	43,494	197.5	15,219	69.3
	Bosnia and Herzegovina	45,211	796.3	16,922	293.7	11,483	206.1
	Bulgaria	114,830	840.1	47,610	332.7	32,386	236.2
	Croatia	54,897	674.3	21,547	249.5	10,988	129.9
	Cyprus	9,400	498.4	2,504	132.1	1,222	69.7
	Czechia	153,431	791.7	73,703	364.2	22,203	114.2
	Denmark	65,155	608.8	22,683	207.4	7,749	72.4
	Estonia	25,591	1,021.2	15,950	594.6	2,333	100.6
	Finland	71,490	630.4	29,663	247.9	10,007	89.9
	France	630,635	499.6	227,286	170.5	79,428	61.4
	Germany	1,070,360	605.3	458,738	242.9	135,705	76.5
	Greece	124,184	558.7	45,114	190.4	21,906	89.4
	Hungary	146,940	816.8	62,412	325.8	26,262	146.3
	Ireland	39,738	552.4	14,498	199.0	4,225	60.2
	Italy	879,388	718.8	319,847	241.1	94,074	68.9
	Latvia	34,869	910.0	17,764	432.5	6,990	183.6
	Lithuania	49,871	899.5	25,844	431.0	9,369	173.4
	Luxembourg	4,990	522.7	1,429	145.6	596	61.4
	Malta	4,515	524.2	1,334	152.0	608	71.3
	Moldova	52,874	934.1	28,056	488.4	9,413	169.5
	Montenegro	7,760	822.2	2,838	294.8	2,135	232.7
	Netherlands	193,681	610.7	85,281	267.2	23,174	73.5
	North Macedonia	24,503	806.7	8,524	280.7	7,529	259.3
	Norway	54,930	626.3	17,012	185.0	7,988	89.7
	Poland	344,392	526.8	85,754	124.8	74,455	113.4
	Portugal	96,119	435.1	19,264	82.7	18,186	76.6
	Romania	274,482	776.4	109,537	293.0	66,930	184.4
	Russian Federation	2,256,855	986.9	1,099,256	470.1	445,959	198.1
	Serbia	135,707	920.4	60,265	405.8	30,995	206.7
	Slovakia	62,150	704.7	26,586	296.5	12,293	140.5
	Slovenia	26,237	661.7	10,913	257.6	3,629	88.9
	Spain	457,183	516.4	166,334	182.1	61,102	65.4
	Sweden	114,074	597.6	38,484	187.8	15,721	81.1
	Switzerland	83,445	511.7	29,752	174.0	9,792	58.9
	Ukraine	844,879	1,139.7	499,577	654.3	127,477	182.0
	United Kingdom	642,508	556.7	218,032	183.0	74,187	62.6
	England	537,232	559.9	180,133	181.8	58,900	59.7
	Scotland	56,500	551.9	19,880	189.1	9,071	86.7
	Wales	32,179	525.7	12,046	190.0	3,999	65.2
	Northern Ireland	16,597	532.7	5,973	187.3	2,217	70.5
NORTH AMERICA		4,103,135	686.4	1,089,947	177.7	498,551	84.8
	Canada	408,831	627.4	130,013	196.0	42,740	66.7
	United States	3,693,571	693.5	959,514	175.5	455,717	87.0
LATIN AMERICA & CARIBBEAN		2,803,489	481.2	937,446	160.7	638,076	109.2
	Brazil	1,095,891	474.9	260,661	109.9	295,510	127.0
ASIA		32,376,834	685.8	12,543,833	269.7	8,111,044	170.9
	China	12,341,074	652.2	3,500,281	197.4	3,935,182	200.8
	India	8,746,953	761.3	4,742,991	427.4	1,291,245	110.7
	Japan	1,537,275	538.1	436,411	126.3	405,022	145.8
	Turkey	574,814	663.0	281,417	325.5	125,345	145.6
	United Arab Emirates	54,088	1,121.5	27,614	654.0	14,482	262.2
AFRICA		5,341,703	737.0	2,006,179	337.9	1,208,520	172.3
	South Africa	309,575	677.8	106,721	244.2	70,796	162.0
AUSTRALASIA		331,884	707.8	164,211	345.2	30,178	65.1
	Australia	284,766	721.5	143,991	360.3	25,524	65.0
	New Zealand	47,118	635.5	20,219	265.6	4,654	65.4

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>
Citation: BHF (2021) Analysis of GBD data
Source: Global Burden of Disease Collaborative Network. <http://ghdx.healthdata.org/gbd-results-tool>
Global Burden of Disease Study 2019 (GBD 2019) Results. [accessed March 2021]
Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020. [no updates Mar 2023]

Table 2.7 Prevalence of selected cardiovascular conditions by nation and region, United Kingdom, latest available

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Nation/Region	ONS Code	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 Heart & Circulatory Diseases (CVD) Estimate	
			N	%	N	%	N	%	N	%	N	%	N	%	N	% popn
East Midlands	E12000004	5,169,389	166,808	3.2	100,209	1.9	771,829	14.9	59,319	1.1	116,303	2.2	31,910	0.6	580,000	11.9
East of England	E12000006	6,738,385	202,668	3.0	121,336	1.8	968,448	14.4	61,257	0.9	148,594	2.2	34,454	0.5	700,000	11.0
London	E12000007	10,647,997	199,337	1.9	114,627	1.1	1,132,600	10.6	59,986	0.6	119,203	1.1	33,579	0.3	650,000	7.4
North East England	E12000001	2,819,816	110,672	3.9	65,227	2.3	450,933	16.0	36,013	1.3	66,898	2.4	24,089	0.9	370,000	14.0
North West England	E12000002	8,014,506	279,569	3.5	160,540	2.0	1,172,228	14.6	87,038	1.1	178,340	2.2	61,569	0.8	940,000	12.7
South East England	E12000008	9,916,320	280,100	2.8	179,777	1.8	1,401,902	14.1	90,143	0.9	231,808	2.3	51,413	0.5	1,000,000	10.8
South West England	E12000009	5,992,028	213,559	3.6	135,667	2.3	903,294	15.1	69,494	1.2	162,936	2.7	39,046	0.7	760,000	13.3
West Midlands	E12000005	6,413,179	201,087	3.1	120,219	1.9	940,563	14.7	61,051	1.0	135,142	2.1	35,939	0.6	680,000	11.4
Yorkshire and The Humber	E12000003	5,892,593	202,676	3.4	119,907	2.0	863,028	14.6	61,936	1.1	129,375	2.2	43,296	0.7	690,000	12.6
England (2021/22)	E92000001	61,604,213	1,856,476	3.0	1,117,509	1.8	8,604,825	14.0	586,237	1.0	1,288,599	2.1	355,295	0.6	6,400,000	11.3
Scotland (2018/19)	S92000003	5,723,722	225,080	3.9	130,317	2.3	790,800	13.8	48,430	0.8	108,359	1.9	48,037	0.8	700,000	12.8
Wales (2019/20)	W92000004	3,242,199	117,174	3.6	70,247	2.2	515,166	15.9	36,055	1.1	78,905	2.4	-	-	340,000	10.9
Northern Ireland (2021/22)	N92000002	2,018,971	73,880	3.7	39,606	2.0	280,317	13.9	19,719	1.0	43,246	2.1	-	-	225,000	11.8
UK	K02000001	72,589,105	2,272,610	3.1	1,357,679	1.9	10,191,108	14.0	690,441	1.0	1,519,109	2.1	n/a		7,600,000	11.3

Notes: These data show total numbers of people on GP patient registers in each area. GPs allocated to region and nation by main surgery postcode (BHF using CACI InSite)
 BHF analysis - adjustments have been made for England & Scotland where active practices did not file patient register numbers in the latest available year.
 BHF CVD estimates based on latest prevalence data; NHS England/PH Scotland/StatsWales/DH Northern Ireland and health surveys: NHS England and Welsh/Scottish Government; plus ONS population estimates
 - CVD estimate shows percentage of population (mid-2021 ONS estimates) and not list size; CVD totals do not add up because of rounding

Citation: BHF (2023) Analysis of UK GP patient register data [except CVD = BHF 2023 estimates]

Source: England - NHS England. Quality & Outcomes Framework (QOF) prevalence data 2021/22
<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2021-22>
 Wales - StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2019/20; updates not available
<https://statswales.gov.wales/Catalogue/Health-and-Social-Care/NHS-Primary-and-Community-Activity/GMS-Contract>
 Scotland - Public Health Scotland. GP prevalence data 2018/19; updates not available
<https://beta.isdscotland.org/find-publications-and-data/health-services/primary-care/general-practice-disease-prevalence-data-visualisation/>
 Northern Ireland - Department of Health, Quality & Outcomes Framework (QOF) prevalence data 2021/22
<https://www.health-ni.gov.uk/articles/prevalence-statistics>

Table 2.8 Prevalence of selected cardiovascular conditions, UK 2006/07 to 2021/22[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	2019/20	2020/21	2021/22
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	3.68	3.64	3.61	3.57	3.53	3.52	3.43	3.46	3.33	3.31	3.27	3.24	3.22	3.20	3.15	3.12
Stroke and TIA	1.66	1.66	1.71	1.73	1.76	1.76	1.75	1.76	1.76	1.79	1.81	1.82	1.84	1.86	1.87	1.88
Atrial fibrillation	1.30	1.31	1.36	1.40	1.44	1.51	1.52	1.54	1.62	1.72	1.84	1.92	1.99	2.05	2.07	2.12
Heart failure	0.80	0.81	0.75	0.74	0.73	0.72	0.72	0.73	0.73	0.78	0.81	0.84	0.93	0.90	0.91	0.95

Notes: BHF analysis. Weighted average based on population in each UK nation - 2019/20 to 2021/22 provisional with some values missing (trend data used for Wales and Scotland)

CHD: coronary heart disease. TIA: transient ischaemic attack (mini-stroke)

Citation: BHF (2023) Analysis of UK GP patient register data

Source: England - NHS Digital. Quality & Outcomes Framework (QOF) prevalence data to 2021/22

<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2021-22>

Public Health Scotland (formerly ISD). Quality & Outcomes Framework (QOF) prevalence data to 2015/16

ISD correspondence for 2016/17 and 2017/18. Latest data (2018/19) by GP at:

<https://beta.isdscotland.org/find-publications-and-data/health-services/primary-care/general-practice-disease-prevalence-data-visualisation/>

StatsWales. Quality & Outcomes Framework (QOF) achievement data to 2018/19

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

StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2019/20

<https://statswales.gov.wales/Catalogue/Health-and-Social-Care/NHS-Primary-and-Community-Activity/GMS-Contract>

Department of Health Northern Ireland. Quality & Outcomes Framework (QOF) reporting data to 2021/22

<https://www.health-ni.gov.uk/articles/prevalence-statistics>

Table 2.9 Prevalence of selected cardiovascular conditions, England 2004/05 to 2021/22

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	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	2019/20	2020/21	2021/22
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	3.60	3.60	3.54	3.50	3.47	3.44	3.40	3.40	3.30	3.34	3.20	3.20	3.15	3.13	3.11	3.10	3.05	3.01
Stroke and TIA	1.50	1.60	1.61	1.60	1.66	1.68	1.71	1.70	1.70	1.70	1.70	1.74	1.75	1.77	1.78	1.80	1.80	1.81
Atrial fibrillation			1.29	1.30	1.35	1.39	1.43	1.50	1.50	1.52	1.60	1.71	1.84	1.91	1.98	2.04	2.05	2.09
Heart failure			0.78	0.80	0.73	0.72	0.71	0.70	0.70	0.71	0.70	0.76	0.79	0.83	0.93	0.89	0.91	0.95

Notes: CHD: coronary heart disease. TIA: transient ischaemic attack (mini-stroke)

Citation: BHF (2023) Analysis of NHS QOF data

Source: England - NHS Digital. Quality & Outcomes Framework (QOF) prevalence data to 2021/22

<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2021-22>

Table 2.10 Prevalence of cardiovascular conditions from GP patient registers, diagnosed percentages by deprivation decile, England 2021/22

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	IMD Deciles										ALL
	Least deprived	9th	8th	7th	6th	5th	4th	3rd	2nd	Most deprived	
	%	%	%	%	%	%	%	%	%	%	%
CHD	2.72	3.01	3.20	3.25	2.94	3.05	3.18	2.73	3.05	3.07	3.01
Stroke and TIA	1.76	1.94	2.03	1.98	1.79	1.85	1.94	1.61	1.81	1.67	1.81
Atrial fibrillation (AF)	2.20	2.28	2.63	2.29	2.13	2.10	1.60	2.14	1.99	1.69	2.09
Heart failure (HF)	0.89	0.94	1.17	1.00	0.92	0.93	0.87	1.07	1.00	0.87	0.95
High blood pressure*	13.72	14.35	15.17	14.68	14.13	14.24	14.34	13.22	13.63	13.40	13.97

Notes:

CHD: coronary heart disease. TIA: transient ischaemic attack (mini-stroke) * GP-diagnosed patients only; not age standardised

NB diagnosis gaps for many condition (e.g. high blood pressure) are often estimated to be highest in areas of greatest deprivation

Citation:

BHF (2023) Analysis of NHS QOF data

Source:

OHID analysis of QOF prevalence data 2021/22 (NHS England 2022); deprivation deciles in England - IMD2019, 2021 geography (districts for CHD, stroke, HBP; CCGs for AF, HF)

<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2021-22>

<https://fingertips.phe.org.uk/> [Office for Health Improvement & Disparities analysis tool; accessed Mar 2023]

Table 2.11 Prevalence of selected cardiovascular conditions, Scotland 2008/09 to 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	4.42	4.38	4.37	4.36	4.29	4.26	4.14	4.10	4.03	3.96	3.93
Stroke and TIA	2.02	2.06	2.10	2.15	2.12	2.16	2.16	2.20	2.23	2.24	2.28
Atrial fibrillation	1.32	1.37	1.42	1.49	1.53	1.59	1.64	1.71	1.77	1.83	1.90
Heart failure	0.84	0.82	0.81	0.81	0.82	0.83	0.82	0.85	0.84	0.83	0.80

Notes: CHD: coronary heart disease. TIA: transient ischaemic attack (mini-stroke)

Citation: BHF (2021) Analysis of Scottish disease prevalence data

Source: Public Health Scotland. Quality & Outcomes Framework (QOF) prevalence data to 2015/16

Correspondence for 2016/17 and 2017/18. Latest data by GP at:

[no updates Mar 2023]

<https://beta.isdscotland.org/find-publications-and-data/health-services/primary-care/general-practice-disease-prevalence-data-visualisation/>

Table 2.12 Prevalence of selected cardiovascular conditions, Wales 2006/07 to 2019/20

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	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	2019/20
	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	4.30	4.20	4.20	4.10	4.00	4.00	3.90	3.88	3.80	3.75	3.70	3.66	3.63	3.61
Stroke and TIA	2.00	2.00	2.00	2.00	2.10	2.10	2.00	2.02	2.00	2.05	2.07	2.09	2.12	2.17
Atrial fibrillation	1.60	1.60	1.70	1.70	1.70	1.80	1.80	1.91	2.00	2.03	2.10	2.24	2.34	2.43
Heart failure	1.00	0.90	0.90	0.90	0.90	0.90	0.90	0.95	1.00	0.99	1.01	1.03	1.06	1.11

Notes:

CHD: coronary heart disease. TIA: transient ischaemic attack (mini-stroke)

Citation:

BHF (2021) Analysis of Welsh disease prevalence data

Source:

StatsWales. Quality & Outcomes Framework (QOF) achievement data to 2018/19

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

StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2019/20

[no updates Mar 2023]

<https://statswales.gov.wales/Catalogue/Health-and-Social-Care/NHS-Primary-and-Community-Activity/GMS-Contract>

Table 2.13 Prevalence of cardiovascular conditions from GP patient registers, by sex and age, Wales 2019/20

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ALL	15 to 19 %	20 to 24 %	25 to 29 %	30 to 34 %	35 to 39 %	40 to 44 %	45 to 49 %	50 to 54 %	55 to 59 %	60 to 64 %	65 to 69 %	70 to 74 %	75 to 79 %	80 to 84 %	85 to 89 %	90 to 94 %	95 and over %
CHD	0.0	0.0	0.0	0.1	0.1	0.4	0.9	1.8	3.3	5.4	8.0	11.0	14.9	19.1	21.5	22.1	19.9
Stroke and TIA	0.0	0.1	0.1	0.1	0.2	0.4	0.6	1.2	1.9	2.8	4.2	5.9	8.7	11.8	14.8	16.7	17.1
Atrial fibrillation	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.7	1.3	2.3	4.0	6.7	10.5	15.6	20.2	21.8	20.8
Heart failure	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.9	2.9	4.5	6.9	9.4	10.6	10.5
High blood pressure*	0.1	0.2	0.5	1.0	2.4	4.8	9.2	14.9	21.1	28.7	37.4	45.7	53.1	58.5	62.8	63.2	60.8

MALE	15 to 19 %	20 to 24 %	25 to 29 %	30 to 34 %	35 to 39 %	40 to 44 %	45 to 49 %	50 to 54 %	55 to 59 %	60 to 64 %	65 to 69 %	70 to 74 %	75 to 79 %	80 to 84 %	85 to 89 %	90 to 94 %	95 and over %
CHD	0.0	0.0	0.0	0.1	0.2	0.5	1.3	2.7	4.8	7.8	11.5	15.5	20.4	25.2	28.2	28.4	24.8
Stroke and TIA	0.0	0.1	0.1	0.1	0.2	0.4	0.7	1.3	2.1	3.4	5.1	7.2	10.2	13.4	16.5	18.4	18.7
Atrial fibrillation	0.0	0.0	0.1	0.2	0.2	0.3	0.6	1.1	1.9	3.2	5.5	8.9	13.3	18.7	23.9	25.3	22.4
Heart failure	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.6	1.0	1.7	2.6	3.9	5.9	8.4	11.2	12.1	11.6
High blood pressure*	0.1	0.2	0.5	1.1	2.5	5.2	10.0	16.3	23.0	31.4	40.4	47.5	53.6	56.6	59.3	57.3	51.1

FEMALE	15 to 19 %	20 to 24 %	25 to 29 %	30 to 34 %	35 to 39 %	40 to 44 %	45 to 49 %	50 to 54 %	55 to 59 %	60 to 64 %	65 to 69 %	70 to 74 %	75 to 79 %	80 to 84 %	85 to 89 %	90 to 94 %	95 and over %
CHD	0.0	0.0	0.0	0.0	0.1	0.2	0.5	1.0	1.8	3.0	4.7	6.8	10.2	14.1	16.9	18.7	18.2
Stroke and TIA	0.0	0.0	0.1	0.1	0.2	0.4	0.6	1.0	1.6	2.3	3.4	4.8	7.4	10.5	13.7	15.9	16.6
Atrial fibrillation	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.7	1.3	2.6	4.6	8.1	13.0	17.7	20.0	20.2
Heart failure	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.1	1.9	3.3	5.6	8.2	9.9	10.2
High blood pressure*	0.1	0.2	0.5	1.0	2.2	4.4	8.4	13.5	19.2	26.0	34.5	44.0	52.6	60.1	65.3	66.3	64.1

Notes: CHD: coronary heart disease. TIA: transient ischaemic attack (mini-stroke) * GP-diagnosed cases only

Citation: BHF (2023) Analysis of Welsh disease prevalence data

Source: StatsWales. Disease prevalence rates by age band and gender (Audit+) 2019/20 [accessed March 2023]

<https://statswales.gov.wales/Catalogue/Health-and-Social-Care/NHS-Primary-and-Community-Activity/GMS-Contract>

Table 2.14 Prevalence of selected cardiovascular conditions, Northern Ireland 2004/05 to 2021/22

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	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	2019/20	2020/21	2021/22
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	4.17	4.23	4.20	4.14	4.06	4.03	3.99	3.94	3.91	3.88	3.84	3.82	3.78	3.75	3.73	3.70	3.69	3.66
Stroke and TIA	1.41	1.57	1.62	1.65	1.68	1.71	1.75	1.78	1.75	1.79	1.81	1.85	1.87	1.89	1.93	1.90	1.95	1.96
Atrial fibrillation			1.25	1.26	1.29	1.33	1.38	1.43	1.45	1.51	1.59	1.68	1.77	1.89	1.98	2.07	2.09	2.14
Heart failure			0.82	0.80	0.75	0.76	0.76	0.75	0.75	0.76	0.78	0.80	0.85	0.88	0.92	0.97	0.96	0.98

Notes: CHD: coronary heart disease. TIA: transient ischaemic attack (also known as mini-stroke)
Citation: BHF (2023) Analysis of NI disease prevalence data
Source: Department of Health Northern Ireland. Quality & Outcomes Framework (QOF) reporting data to 2021/22
<https://www.health-ni.gov.uk/articles/prevalence-statistics>

Table 2.15 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

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region/nation tables see 2.7

shaded entries merged April 2023

region/nation tables see 2.7 shaded entries merged April 2023					GP PREVALENCE DATA (PATIENT REGISTERS)												BHF Heart & Circulatory Diseases (CVD) Estimate		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Patient List (all ages)	Coronary Heart Disease Register		Stroke/TIA Register		Hypertension Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register			
						Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	% popn
E06000055	Bedford	Bedfordshire	East of England	ENG	194,286	5,504	2.8%	3,084	1.6%	27,524	14%	2,051	1.1%	3,853	2.0%	936	0.5%	19,000	10%
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	293,295	8,421	2.9%	4,778	1.6%	40,562	14%	2,269	0.8%	6,189	2.1%	1,273	0.4%	28,000	9%
E06000032	Luton	Bedfordshire	East of England	ENG	263,207	6,477	2.5%	3,420	1.3%	32,046	12%	1,555	0.6%	3,173	1.2%	896	0.3%	19,000	8%
E06000036	Bracknell Forest	Berkshire	South East	ENG	129,085	3,012	2.3%	1,702	1.3%	17,335	13%	1,042	0.8%	2,337	1.8%	490	0.4%	11,000	9%
E06000038	Reading	Berkshire	South East	ENG	250,755	4,412	1.8%	2,885	1.2%	29,058	12%	1,751	0.7%	3,377	1.3%	730	0.3%	16,000	9%
E06000039	Slough	Berkshire	South East	ENG	171,374	4,372	2.6%	1,890	1.1%	20,965	12%	1,273	0.7%	1,716	1.0%	637	0.4%	12,000	8%
E06000037	West Berkshire	Berkshire	South East	ENG	155,491	3,961	2.5%	2,654	1.7%	22,357	14%	1,415	0.9%	3,471	2.2%	706	0.5%	15,000	9%
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	173,335	4,687	2.7%	2,846	1.6%	23,114	13%	1,647	1.0%	3,983	2.3%	618	0.4%	17,000	11%
E06000041	Wokingham	Berkshire	South East	ENG	153,906	3,523	2.3%	2,388	1.6%	19,648	13%	1,306	0.8%	3,255	2.1%	493	0.3%	13,000	7%
E06000023	Bristol, City of	Bristol	South West	ENG	555,667	12,231	2.2%	8,308	1.5%	56,207	10%	4,475	0.8%	8,796	1.6%	2,868	0.5%	45,000	10%
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	578,818	17,055	2.9%	10,072	1.7%	81,411	14%	4,973	0.7%	13,744	2.2%	2,687	0.5%	60,000	11%
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	326,594	7,198	2.2%	3,676	1.1%	41,639	13%	2,366	0.7%	5,209	1.6%	1,299	0.4%	24,000	8%
E07000008	Cambridge	Cambridgeshire	East of England	ENG	208,513	3,429	1.6%	1,980	0.9%	15,371	7%	876	0.4%	2,641	1.3%	680	0.3%	12,000	8%
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	89,832	3,006	3.3%	1,552	1.7%	13,346	15%	1,142	1.3%	2,363	2.6%	523	0.6%	11,000	12%
E07000010	Fenland	Cambridgeshire	East of England	ENG	119,057	4,546	3.8%	2,489	2.1%	19,763	17%	1,193	1.0%	2,849	2.4%	854	0.7%	15,000	15%
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	189,247	6,027	3.2%	3,349	1.8%	28,014	15%	2,037	1.1%	4,537	2.4%	1,124	0.6%	21,000	12%
E06000031	Peterborough	Cambridgeshire	East of England	ENG	234,404	5,767	2.5%	3,152	1.3%	28,511	12%	1,795	0.8%	3,342	1.4%	1,306	0.6%	19,000	9%
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	145,577	4,147	2.8%	2,238	1.5%	18,685	13%	1,263	0.9%	3,476	2.4%	616	0.4%	14,000	9%
E06000049	Cheshire East	Cheshire	North West	ENG	419,739	14,428	3.4%	9,538	2.3%	65,744	16%	5,337	1.3%	11,720	2.8%	2,936	0.7%	54,000	13%
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	377,310	13,164	3.5%	7,810	2.1%	57,580	15%	4,719	1.3%	10,506	2.8%	2,683	0.7%	48,000	13%
E06000006	Halton	Cheshire	North West	ENG	135,230	5,651	4.2%	2,706	2.0%	21,573	16%	1,550	1.1%	3,368	2.5%	1,212	0.9%	18,000	14%
E06000007	Warrington	Cheshire	North West	ENG	223,699	7,847	3.5%	4,200	1.9%	32,277	14%	2,218	1.0%	5,139	2.3%	1,471	0.7%	26,000	12%
E06000052	Cornwall	Cornwall	South West	ENG	595,200	26,047	4.4%	17,239	2.9%	96,090	16%	9,988	1.7%	17,890	3.0%	4,099	0.7%	92,000	16%
E06000053	Isles of Scilly	Cornwall	South West	ENG	2,412	74	3.1%	46	1.9%	293	12%	25	1.0%	50	2.1%	20	0.8%	260	11%
E06000047	County Durham	County Durham	North East	ENG	560,720	24,118	4.3%	13,756	2.5%	96,239	17%	8,351	1.5%	13,556	2.4%	5,109	0.9%	80,000	15%
E06000005	Darlington	County Durham	North East	ENG	111,094	3,895	3.5%	2,532	2.3%	18,128	16%	1,826	1.6%	2,585	2.3%	990	0.9%	15,000	14%
E06000001	Hartlepool	County Durham	North East	ENG	97,209	4,098	4.2%	2,156	2.2%	16,616	17%	1,049	1.1%	2,250	2.3%	834	0.9%	13,000	14%
E06000004	Stockton-on-Tees	County Durham	North East	ENG	204,636	7,476	3.7%	4,620	2.3%	31,598	15%	2,074	1.0%	4,859	2.4%	1,443	0.7%	25,000	13%
E06000063	Cumberland (NEW)	Cumbria	North West	ENG	283,061	13,568	4.8%	7,482	2.6%	46,700	16%	3,900	1.4%	7,619	2.7%	3,054	1.1%	44,000	16%
E06000064	Westmorland & Furness (NEW)	Cumbria	North West	ENG	231,779	9,300	4.0%	5,913	2.6%	38,101	16%	2,647	1.1%	6,692	2.9%	1,964	0.8%	32,000	14%
E07000026	Allerdale > CUMBERLAND	Cumbria	North West	ENG	100,710	4,760	4.7%	2,769	2.7%	17,318	17%	1,365	1.4%	2,969	2.9%	989	1.0%	16,000	17%
E07000027	Barrow-in-Furness > W&F	Cumbria	North West	ENG	68,955	2,798	4.1%	1,532	2.2%	10,916	16%	868	1.3%	1,660	2.4%	599	0.9%	9,200	14%
E07000028	Carlisle > CUMBERLAND	Cumbria	North West	ENG	112,240	5,325	4.7%	2,790	2.5%	17,235	15%	1,422	1.3%	2,746	2.4%	1,298	1.2%	17,000	15%
E07000029	Copeland > CUMBERLAND	Cumbria	North West	ENG	70,111	3,483	5.0%	1,923	2.7%	12,147	17%	1,113	1.6%	1,904	2.7%	767	1.1%	11,000	16%
E07000030	Eden > W&F	Cumbria	North West	ENG	54,198	2,360	4.4%	1,412	2.6%	9,442	17%	642	1.2%	1,649	3.0%	521	1.0%	8,100	15%
E07000031	South Lakeland > W&F	Cumbria	North West	ENG	108,626	4,142	3.8%	2,969	2.7%	17,743	16%	1,137	1.0%	3,383	3.1%	844	0.8%	15,000	14%
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	138,524	5,296	3.8%	3,310	2.4%	22,392	16%	1,809	1.3%	3,716	2.7%	1,232	0.9%	19,000	15%
E07000033	Bolsover	Derbyshire	East Midlands	ENG	97,565	3,885	4.0%	2,182	2.2%	17,207	18%	989	1.0%	2,426	2.5%	746	0.8%	13,000	16%
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	113,752	4,538	4.0%	2,694	2.4%	20,631	18%	1,298	1.1%	3,030	2.7%	1,097	1.0%	16,000	15%
E06000015	Derby	Derbyshire	East Midlands	ENG	303,668	8,878	2.9%	5,241	1.7%	39,000	13%	3,372	1.1%	5,529	1.8%	2,105	0.7%	31,000	12%
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	85,657	3,214	3.8%	2,124	2.5%	15,262	18%	1,265	1.5%	2,920	3.4%	652	0.8%	13,000	18%
E07000036	Erewash	Derbyshire	East Midlands	ENG	112,829	3,836	3.4%	2,438	2.2%	18,572	16%	1,327	1.2%	2,809	2.5%	931	0.8%	14,000	12%
E07000037	High Peak	Derbyshire	East Midlands	ENG	96,845	3,795	3.9%	2,472	2.6%	15,852	16%	1,529	1.6%	2,646	2.7%	775	0.8%	14,000	15%
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	79,602	3,336	4.2%	2,131	2.7%	14,439	18%	1,044	1.3%	2,255	2.8%	697	0.9%	12,000	12%
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	94,005	2,911	3.1%	1,838	2.0%	13,925	15%	1,022	1.1%	2,125	2.3%	737	0.8%	11,000	10%
E07000040	East Devon	Devon	South West	ENG	131,826	5,746	4.4%	3,863	2.9%	24,761	19%	2,189	1.7%	5,113	3.9%	1,075	0.8%	22,000	14%
E07000041	Exeter	Devon	South West	ENG	159,836	4,063	2.5%	2,624	1.6%	18,868	12%	1,218	0.8%	3,078	1.9%	778	0.5%	14,000	11%
E07000042	Mid Devon	Devon	South West	ENG	96,173	3,471	3.6%	2,250	2.3%	15,390	16%	978	1.0%	2,865	3.0%	560	0.6%	12,000	14%
E07000043	North Devon	Devon	South West	ENG	110,757	5,047	4.6%	3,173	2.9%	17,135	15%	1,175	1.1%	3,235	2.9%	902	0.8%	17,000	17%
E06000026	Plymouth	Devon	South West	ENG	298,096	10,983	3.7%	6,028	2.0%	41,459	14%	3,327	1.1%	6,833	2.3%	2,113	0.7%	36,000	14%
E07000044	South Hams	Devon	South West	ENG	66,235	2,564	3.9%	1,856	2.8%	11,064	17%	717	1.1%	2,274	3.4%	453	0.7%	9,700	11%
E07000045	Teignbridge	Devon	South West	ENG	132,919	5,060	3.8%	3,542	2.7%	23,177	17%	1,268	1.0%	4,216	3.2%	1,083	0.8%	19,000	14%
E06000027	Torbay	Devon	South West	ENG	148,606	6,107	4.1%	4,111	2.8%	26,742	18%	1,753	1.2%	4,758	3.2%	1,490	1.0%	22,000	16%
E07000046	Torridge	Devon	South West	ENG	73,543	3,527	4.8%	2,277	3.1%	12,827	17%	743	1.0%	2,322	3.2%				

Table 2.15 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

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region/nation tables see 2.7

shaded entries merged April 2023

region/nation tables see 2.7 shaded entries merged April 2023					GP PREVALENCE DATA (PATIENT REGISTERS)														BHF Heart & Circulatory Diseases (CVD) Estimate	
					Patient List <i>(all ages)</i>	Coronary Heart Disease Register		Stroke/TIA Register		Hypertension Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register				
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N		Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	% popn	
E07000061	Eastbourne	East Sussex	South East	ENG	107,620	3,777	3.5%	2,682	2.5%	17,724	16%	1,317	1.2%	3,666	3.4%	799	0.7%	15,000	15%	
E07000062	Hastings	East Sussex	South East	ENG	100,814	3,500	3.5%	2,249	2.2%	15,882	16%	1,215	1.2%	2,627	2.6%	732	0.7%	13,000	14%	
E07000063	Lewes	East Sussex	South East	ENG	101,117	3,816	3.8%	2,518	2.5%	16,887	17%	1,063	1.1%	3,321	3.3%	804	0.8%	14,000	14%	
E07000064	Rother	East Sussex	South East	ENG	91,443	4,152	4.5%	2,782	3.0%	18,855	21%	1,289	1.4%	3,850	4.2%	798	0.9%	16,000	17%	
E07000065	Wealden	East Sussex	South East	ENG	166,210	5,598	3.4%	3,850	2.3%	27,435	17%	1,562	0.9%	5,418	3.3%	965	0.6%	21,000	13%	
E07000066	Basildon	Essex	East of England	ENG	206,723	5,736	2.8%	3,787	1.8%	30,275	15%	1,814	0.9%	3,815	1.8%	1,015	0.5%	20,000	11%	
E07000067	Braintree	Essex	East of England	ENG	143,086	4,588	3.2%	2,646	1.8%	20,627	14%	1,181	0.8%	3,118	2.2%	743	0.5%	15,000	10%	
E07000068	Brentwood	Essex	East of England	ENG	79,165	2,148	2.7%	1,518	1.9%	11,203	14%	578	0.7%	1,784	2.3%	253	0.3%	7,700	10%	
E07000069	Castle Point	Essex	East of England	ENG	89,430	3,266	3.7%	1,832	2.0%	16,614	19%	1,249	1.4%	2,296	2.6%	491	0.5%	11,000	12%	
E07000070	Chelmsford	Essex	East of England	ENG	204,152	5,341	2.6%	3,398	1.7%	28,055	14%	1,291	0.6%	4,232	2.1%	753	0.4%	18,000	10%	
E07000071	Colchester	Essex	East of England	ENG	209,094	5,412	2.6%	3,089	1.5%	27,159	13%	1,798	0.9%	4,124	2.0%	855	0.4%	19,000	10%	
E07000072	Epping Forest	Essex	East of England	ENG	117,824	3,430	2.9%	1,986	1.7%	16,717	14%	1,408	1.2%	2,654	2.3%	533	0.5%	12,000	9%	
E07000073	Harlow	Essex	East of England	ENG	102,515	2,757	2.7%	1,482	1.4%	14,398	14%	991	1.0%	1,749	1.7%	504	0.5%	9,200	10%	
E07000074	Maldon	Essex	East of England	ENG	58,050	1,993	3.4%	1,212	2.1%	9,909	17%	573	1.0%	1,489	2.6%	307	0.5%	6,900	10%	
E07000075	Rochford	Essex	East of England	ENG	96,797	3,179	3.3%	1,920	2.0%	15,952	16%	1,096	1.1%	2,420	2.5%	433	0.4%	11,000	13%	
E06000033	Southend-on-Sea	Essex	East of England	ENG	190,537	5,739	3.0%	3,554	1.9%	28,454	15%	2,125	1.1%	4,013	2.1%	831	0.4%	20,000	11%	
E07000076	Tendring	Essex	East of England	ENG	156,683	7,049	4.5%	4,081	2.6%	31,307	20%	2,208	1.4%	4,879	3.1%	1,465	0.9%	24,000	16%	
E06000034	Thurrock	Essex	East of England	ENG	184,541	4,295	2.3%	2,828	1.5%	25,870	14%	1,608	0.9%	2,865	1.6%	794	0.4%	15,000	9%	
E07000077	Uttlesford	Essex	East of England	ENG	95,380	2,671	2.8%	1,575	1.7%	13,987	15%	697	0.7%	2,286	2.4%	442	0.5%	9,400	10%	
E07000078	Cheltenham	Gloucestershire	South West	ENG	144,731	4,343	3.0%	2,627	1.8%	17,816	12%	1,444	1.0%	3,486	2.4%	843	0.6%	16,000	13%	
E07000079	Cotswold	Gloucestershire	South West	ENG	94,039	3,171	3.4%	2,029	2.2%	14,472	15%	894	1.0%	3,015	3.2%	468	0.5%	12,000	13%	
E07000080	Forest of Dean	Gloucestershire	South West	ENG	83,072	3,349	4.0%	2,023	2.4%	14,342	17%	1,119	1.3%	2,594	3.1%	530	0.6%	12,000	14%	
E07000081	Gloucester	Gloucestershire	South West	ENG	158,075	4,513	2.9%	2,687	1.7%	21,259	13%	1,509	1.0%	3,207	2.0%	800	0.5%	16,000	12%	
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	278,463	8,338	3.0%	5,406	1.9%	39,713	14%	2,867	1.0%	6,785	2.4%	1,611	0.6%	31,000	11%	
E07000082	Stroud	Gloucestershire	South West	ENG	125,312	4,343	3.5%	2,611	2.1%	19,757	16%	1,326	1.1%	3,511	2.8%	684	0.5%	15,000	12%	
E07000083	Tewkesbury	Gloucestershire	South West	ENG	69,771	2,570	3.7%	1,557	2.2%	11,212	16%	692	1.0%	2,080	3.0%	399	0.6%	9,000	9%	
E09000002	Barking and Dagenham	Greater London	London	ENG	261,544	4,480	1.7%	2,543	1.0%	29,521	11%	1,252	0.5%	2,392	0.9%	727	0.3%	14,000	6%	
E09000003	Barnet	Greater London	London	ENG	431,198	10,156	2.4%	5,650	1.3%	49,133	11%	2,711	0.6%	6,268	1.5%	1,343	0.3%	32,000	8%	
E09000004	Bexley	Greater London	London	ENG	249,233	6,519	2.6%	4,005	1.6%	35,143	14%	2,010	0.8%	4,782	1.9%	1,017	0.4%	23,000	9%	
E09000005	Brent	Greater London	London	ENG	477,178	9,010	1.9%	4,990	1.0%	53,001	11%	2,995	0.6%	4,025	0.8%	1,764	0.4%	28,000	8%	
E09000006	Bromley	Greater London	London	ENG	354,352	9,470	2.7%	5,428	1.5%	45,844	13%	2,382	0.7%	7,407	2.1%	1,308	0.4%	32,000	10%	
E09000007	Camden	Greater London	London	ENG	308,011	4,241	1.4%	2,658	0.9%	26,886	9%	1,835	0.6%	3,112	1.0%	935	0.3%	16,000	8%	
E09000001	City of London	Greater London	London	ENG	10,363	175	1.7%	97	0.9%	887	9%	58	0.6%	147	1.4%	34	0.3%	630	7%	
E09000008	Croydon	Greater London	London	ENG	431,872	9,276	2.1%	5,655	1.3%	53,652	12%	2,494	0.6%	5,566	1.3%	1,437	0.3%	30,000	8%	
E09000009	Ealing	Greater London	London	ENG	461,828	11,263	2.4%	4,964	1.1%	58,030	13%	2,870	0.6%	5,293	1.1%	1,330	0.3%	32,000	9%	
E09000010	Enfield	Greater London	London	ENG	356,633	7,935	2.2%	4,189	1.2%	45,654	13%	2,288	0.6%	4,520	1.3%	1,164	0.3%	25,000	8%	
E09000011	Greenwich	Greater London	London	ENG	311,777	5,732	1.8%	3,563	1.1%	37,126	12%	1,734	0.6%	3,303	1.1%	1,132	0.4%	19,000	7%	
E09000012	Hackney	Greater London	London	ENG	346,661	5,349	1.5%	3,046	0.9%	30,828	9%	2,269	0.7%	2,551	0.7%	1,075	0.3%	18,000	7%	
E09000013	Hammersmith and Fulham	Greater London	London	ENG	346,066	3,930	1.1%	2,683	0.8%	23,723	7%	1,145	0.3%	2,649	0.8%	1,079	0.3%	14,000	8%	
E09000014	Haringey	Greater London	London	ENG	322,391	5,121	1.6%	3,123	1.0%	33,728	10%	1,773	0.5%	3,132	1.0%	883	0.3%	17,000	6%	
E09000015	Harrow	Greater London	London	ENG	273,354	7,451	2.7%	3,665	1.3%	36,201	13%	2,246	0.8%	3,772	1.4%	1,049	0.4%	22,000	8%	
E09000016	Havering	Greater London	London	ENG	264,544	6,464	2.4%	4,195	1.6%	37,708	14%	1,966	0.7%	5,054	1.9%	1,148	0.4%	23,000	9%	
E09000017	Hillingdon	Greater London	London	ENG	331,512	7,892	2.4%	4,225	1.3%	41,215	12%	2,214	0.7%	5,019	1.5%	1,225	0.4%	25,000	8%	
E09000018	Hounslow	Greater London	London	ENG	325,624	7,368	2.3%	3,582	1.1%	37,838	12%	1,895	0.6%	3,486	1.1%	955	0.3%	21,000	7%	
E09000019	Islington	Greater London	London	ENG	283,608	3,701	3.1%	2,563	1.7%	22,631	8%	1,357	0.6%	2,478	2.2%	902	1.0%	14,000	6%	
E09000020	Kensington and Chelsea	Greater London	London	ENG	236,135	3,683	1.6%	2,453	1.0%	19,131	8%	966	0.4%	2,743	1.2%	761	0.3%	13,000	9%	
E09000021	Kingston upon Thames	Greater London	London	ENG	211,573	4,201	2.0%	2,354	1.1%	21,771	10%	1,271	0.6%	3,180	1.5%	639	0.3%	14,000	8%	
E09000022	Lambeth	Greater London	London	ENG	425,214	4,933	1.2%	3,879	0.9%	39,057	9%	1,895	0.4%	3,278	0.8%	1,219	0.3%	19,000	6%	
E09000023	Lewisham	Greater London	London	ENG	349,548	5,554	1.6%	3,912	1.1%	37,888	11%	1,754	0.5%	3,150	0.9%	1,361	0.4%	19,000	6%	
E09000024	Merton	Greater London	London	ENG	234,889	4,426	1.9%	2,465	1.0%	25,104	11%	1,398	0.6%	2,911	1.2%	754	0.3%	15,000	7%	
E09000025	Newham	Greater London	London	ENG	436,971	7,117	1.6%	3,321	0.8%	43,010	10%	2,237	0.5%	2,317	0.5%	836	0.2%	19,000	5%	
E09000026	Redbridge	Greater London	London	ENG	357,184	8,107	2.3%	3,861	1.1%	41,143	12%	1,734	0.5%	3,702	1.0%	860	0.2%	22,000	7%	
E09000027	Richmond upon Thames	Greater London	London	ENG	240,591	4,693	2.0%	2,950	1.2%	23,666	10%	1,329	0.6%	4,034	1.7%	645	0.3%	17,000	9%	
E09000028	Southwark	Greater London	London	ENG	370,016	4,710	1.3%	3,619	1.0%	37,962	10%	1,970	0.5%	3,292	0.9%	1,209	0.3%	18,000	6%	
E09000029	Sutton	Greater London	London	ENG	211,351	5,113	2.4%	2,905	1.4%	27,110	13%	1,600	0.8%	3,534	1.7%	808	0.4%	17,000	8%	
E09000030	Tower Hamlets	Greater London	London	ENG	372,467	5,144	1.4%	2,570	0.7%	26,278	7%	1,478								

Table 2.15 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

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shaded entries merged April 2023

region/nation tables see 2.7 shaded entries merged April 2023					GP PREVALENCE DATA (PATIENT REGISTERS)														BHF Heart & Circulatory Diseases (CVD) Estimate	
					Patient List <i>(all ages)</i>	Coronary Heart Disease Register		Stroke/TIA Register		Hypertension Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register				
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N		Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	% popn	
E09000033	Westminster	Greater London	London	ENG	324,556	4,805	1.5%	2,853	0.9%	23,364	7%	1,406	0.4%	2,927	0.9%	1,011	0.3%	16,000	8%	
E08000001	Bolton	Greater Manchester	North West	ENG	320,318	9,402	2.9%	6,126	1.9%	43,487	14%	2,574	0.8%	5,808	1.8%	1,840	0.6%	32,000	11%	
E08000002	Bury	Greater Manchester	North West	ENG	208,875	6,598	3.2%	4,049	1.9%	28,614	14%	2,090	1.0%	4,069	1.9%	1,339	0.6%	22,000	11%	
E08000003	Manchester	Greater Manchester	North West	ENG	699,027	15,197	2.2%	8,625	1.2%	69,146	10%	4,631	0.7%	7,392	1.1%	4,212	0.6%	49,000	9%	
E08000004	Oldham	Greater Manchester	North West	ENG	250,387	7,496	3.0%	4,554	1.8%	33,816	14%	2,096	0.8%	4,125	1.6%	1,859	0.7%	25,000	10%	
E08000005	Rochdale	Greater Manchester	North West	ENG	242,694	8,059	3.3%	4,689	1.9%	34,514	14%	2,236	0.9%	4,331	1.8%	2,022	0.8%	26,000	12%	
E08000006	Salford	Greater Manchester	North West	ENG	308,441	8,891	2.9%	5,104	1.7%	35,546	12%	2,509	0.8%	5,212	1.7%	2,244	0.7%	29,000	11%	
E08000007	Stockport	Greater Manchester	North West	ENG	320,757	11,527	3.6%	6,996	2.2%	47,838	15%	3,814	1.2%	7,617	2.4%	2,194	0.7%	40,000	14%	
E08000008	Tameside	Greater Manchester	North West	ENG	232,596	8,525	3.7%	4,695	2.0%	37,042	16%	2,373	1.0%	4,588	2.0%	1,964	0.8%	27,000	12%	
E08000009	Trafford	Greater Manchester	North West	ENG	245,660	7,760	3.2%	4,745	1.9%	34,242	14%	2,153	0.9%	5,659	2.3%	1,558	0.6%	27,000	11%	
E08000010	Wigan	Greater Manchester	North West	ENG	331,950	12,843	3.9%	6,982	2.1%	53,102	16%	3,846	1.2%	7,891	2.4%	2,541	0.8%	42,000	13%	
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	183,307	4,421	2.4%	3,023	1.6%	25,125	14%	1,145	0.6%	3,663	2.0%	930	0.5%	16,000	9%	
E07000085	East Hampshire	Hampshire	South East	ENG	121,630	3,881	3.2%	2,614	2.1%	18,571	15%	1,186	1.0%	3,320	2.7%	658	0.5%	14,000	11%	
E07000086	Eastleigh	Hampshire	South East	ENG	134,861	3,780	2.8%	2,595	1.9%	19,674	15%	1,429	1.1%	3,222	2.4%	671	0.5%	14,000	10%	
E07000087	Fareham	Hampshire	South East	ENG	121,977	4,419	3.6%	2,765	2.3%	21,283	17%	1,800	1.5%	3,636	3.0%	753	0.6%	16,000	14%	
E07000088	Gosport	Hampshire	South East	ENG	84,096	3,112	3.7%	1,837	2.2%	14,206	17%	1,334	1.6%	2,307	2.7%	654	0.8%	11,000	13%	
E07000089	Hart	Hampshire	South East	ENG	107,994	3,069	2.8%	1,871	1.7%	15,808	15%	915	0.8%	2,734	2.5%	494	0.5%	11,000	11%	
E07000090	Havant	Hampshire	South East	ENG	130,479	5,134	3.9%	3,199	2.5%	22,522	17%	1,946	1.5%	3,944	3.0%	1,036	0.8%	19,000	15%	
E07000091	New Forest	Hampshire	South East	ENG	189,018	8,248	4.4%	5,645	3.0%	36,043	19%	3,833	2.0%	7,235	3.8%	1,433	0.8%	32,000	18%	
E06000044	Portsmouth	Hampshire	South East	ENG	231,003	6,169	2.7%	3,720	1.6%	27,694	12%	2,753	1.2%	4,370	1.9%	1,449	0.6%	23,000	11%	
E07000092	Rushmoor	Hampshire	South East	ENG	107,920	2,789	2.6%	1,660	1.5%	15,599	14%	1,248	1.2%	2,083	1.9%	614	0.6%	10,000	10%	
E06000045	Southampton	Hampshire	South East	ENG	301,686	6,566	2.2%	4,518	1.5%	32,550	11%	2,625	0.9%	4,783	1.6%	1,494	0.5%	25,000	10%	
E07000093	Test Valley	Hampshire	South East	ENG	116,604	3,257	2.8%	2,448	2.1%	17,168	15%	1,060	0.9%	2,906	2.5%	598	0.5%	13,000	10%	
E07000094	Winchester	Hampshire	South East	ENG	129,236	3,523	2.7%	2,711	2.1%	18,338	14%	1,172	0.9%	3,474	2.7%	591	0.5%	14,000	11%	
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	192,676	6,834	3.5%	4,797	2.5%	31,892	17%	2,053	1.1%	5,675	2.9%	1,291	0.7%	25,000	13%	
E07000095	Broxbourne	Hertfordshire	East of England	ENG	106,623	3,011	2.8%	1,854	1.7%	14,975	14%	813	0.8%	2,110	2.0%	532	0.5%	10,000	10%	
E07000096	Dacorum	Hertfordshire	East of England	ENG	174,681	4,681	2.7%	2,702	1.5%	23,859	14%	1,300	0.7%	3,748	2.1%	906	0.5%	16,000	10%	
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	152,844	4,061	2.7%	2,561	1.7%	20,323	13%	1,268	0.8%	3,281	2.1%	723	0.5%	15,000	10%	
E07000098	Hertsmere	Hertfordshire	East of England	ENG	168,239	4,845	2.9%	2,692	1.6%	22,131	13%	1,283	0.8%	3,427	2.0%	716	0.4%	16,000	15%	
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	137,234	3,735	2.7%	2,502	1.8%	18,631	14%	871	0.6%	3,011	2.2%	603	0.4%	13,000	10%	
E07000240	St Albans	Hertfordshire	East of England	ENG	161,512	3,679	2.3%	2,303	1.4%	17,637	11%	804	0.5%	3,097	1.9%	485	0.3%	13,000	9%	
E07000243	Stevenage	Hertfordshire	East of England	ENG	99,972	2,528	2.5%	1,584	1.6%	12,747	13%	674	0.7%	1,679	1.7%	435	0.4%	8,500	10%	
E07000102	Three Rivers	Hertfordshire	East of England	ENG	85,746	2,408	2.8%	1,482	1.7%	12,179	14%	741	0.9%	1,937	2.3%	397	0.5%	8,600	9%	
E07000103	Watford	Hertfordshire	East of England	ENG	79,576	1,818	2.3%	1,069	1.3%	9,005	11%	502	0.6%	1,071	1.3%	289	0.4%	5,800	6%	
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	138,278	3,383	2.4%	2,280	1.6%	17,656	13%	892	0.6%	2,725	2.0%	626	0.5%	12,000	10%	
E06000046	Isle of Wight	Isle of Wight	South East	ENG	145,597	5,642	3.9%	3,960	2.7%	26,833	18%	1,953	1.3%	4,387	3.0%	2,049	1.4%	22,000	16%	
E07000105	Ashford	Kent	South East	ENG	135,595	3,809	2.8%	2,374	1.8%	20,061	15%	979	0.7%	3,372	2.5%	700	0.5%	14,000	11%	
E07000106	Canterbury	Kent	South East	ENG	182,736	5,248	2.9%	3,514	1.9%	26,230	14%	1,308	0.7%	4,619	2.5%	994	0.5%	19,000	12%	
E07000107	Dartford	Kent	South East	ENG	132,696	3,053	2.3%	2,079	1.6%	19,268	15%	870	0.7%	2,444	1.8%	565	0.4%	11,000	9%	
E07000108	Dover	Kent	South East	ENG	116,708	4,006	3.4%	2,552	2.2%	19,540	17%	1,077	0.9%	3,390	2.9%	816	0.7%	15,000	13%	
E07000112	Folkestone and Hythe	Kent	South East	ENG	114,285	4,215	3.7%	2,607	2.3%	20,022	18%	1,084	0.9%	3,670	3.2%	770	0.7%	15,000	14%	
E07000109	Gravesham	Kent	South East	ENG	135,781	3,416	2.5%	2,131	1.6%	18,443	14%	938	0.7%	2,596	1.9%	530	0.4%	12,000	11%	
E07000110	Maidstone	Kent	South East	ENG	182,052	4,931	2.7%	3,323	1.8%	26,542	15%	1,559	0.9%	4,216	2.3%	781	0.4%	18,000	10%	
E06000035	Medway	Kent	South East	ENG	295,548	7,749	2.6%	3,931	1.3%	42,730	14%	2,751	0.9%	5,150	1.7%	1,275	0.4%	26,000	9%	
E07000111	Sevenoaks	Kent	South East	ENG	99,250	2,645	2.7%	1,932	1.9%	13,925	14%	844	0.9%	2,688	2.7%	494	0.5%	11,000	9%	
E07000113	Swale	Kent	South East	ENG	150,709	4,404	2.9%	2,501	1.7%	23,490	16%	1,472	1.0%	3,204	2.1%	832	0.6%	15,000	10%	
E07000114	Thanet	Kent	South East	ENG	152,187	5,351	3.5%	3,422	2.2%	25,952	17%	1,517	1.0%	4,296	2.8%	1,190	0.8%	19,000	14%	
E07000115	Tonbridge and Malling	Kent	South East	ENG	139,240	3,689	2.6%	2,418	1.7%	19,359	14%	1,177	0.8%	3,295	2.4%	683	0.5%	14,000	11%	
E07000116	Tunbridge Wells	Kent	South East	ENG	127,844	3,112	2.4%	2,488	1.9%	17,200	13%	1,024	0.8%	3,161	2.5%	586	0.5%	13,000	11%	
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	181,344	6,226	3.4%	3,178	1.8%	25,178	14%	1,508	0.8%	2,903	1.6%	1,258	0.7%	19,000	12%	
E06000009	Blackpool	Lancashire	North West	ENG	176,350	7,797	4.4%	4,274	2.4%	31,492	18%	2,952	1.7%	4,576	2.6%	2,006	1.1%	27,000	19%	
E07000117	Burnley	Lancashire	North West	ENG	102,943	3,906	3.8%	2,063	2.0%	15,184	15%	945	0.9%	2,151	2.1%	984	1.0%	12,000	13%	
E07000118	Chorley	Lancashire	North West	ENG	118,983	4,454	3.7%	2,384	2.0%	18,678	16%	1,457	1.2%	2,914	2.4%	958	0.8%	15,000	13%	
E07000119	Fylde	Lancashire	North West	ENG	73,600	3,540	4.8%	2,056	2.8%	14,211	19%	1,236	1.7%	2,600	3.5%	696	0.9%	12,000	15%	
E07000120	Hyndburn	Lancashire	North West	ENG	79,451	3,229	4.1%	1,681	2.1%	12,505	16%	803	1.0%	1,658	2.1%	852	1.1%	1		

Table 2.15 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

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region/nation tables see 2.7

shaded entries merged April 2023

region/nation tables see 2.7 shaded entries merged April 2023					GP PREVALENCE DATA (PATIENT REGISTERS)												BHF Heart & Circulatory Diseases (CVD) Estimate		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Patient List (all ages)	Coronary Heart Disease Register		Stroke/TIA Register		Hypertension Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register			
						Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	% popn
E07000124	Ribble Valley	Lancashire	North West	ENG	61,844	2,227	3.6%	1,354	2.2%	10,726	17%	774	1.3%	1,734	2.8%	418	0.7%	8,000	13%
E07000125	Rossendale	Lancashire	North West	ENG	73,759	2,656	3.6%	1,543	2.1%	10,954	15%	608	0.8%	1,539	2.1%	708	1.0%	8,700	12%
E07000126	South Ribble	Lancashire	North West	ENG	123,515	4,355	3.5%	2,475	2.0%	19,273	16%	1,628	1.3%	3,065	2.5%	879	0.7%	15,000	13%
E07000127	West Lancashire	Lancashire	North West	ENG	115,393	4,297	3.7%	2,432	2.1%	19,100	17%	1,359	1.2%	3,058	2.7%	778	0.7%	15,000	13%
E07000128	Wyre	Lancashire	North West	ENG	108,940	5,279	4.8%	3,039	2.8%	20,940	19%	2,024	1.9%	3,515	3.2%	1,144	1.1%	18,000	16%
E07000129	Blaby	Leicestershire	East Midlands	ENG	102,426	3,135	3.1%	1,949	1.9%	15,988	16%	1,162	1.1%	2,398	2.3%	470	0.5%	11,000	11%
E07000130	Charnwood	Leicestershire	East Midlands	ENG	199,322	5,336	2.7%	3,414	1.7%	27,148	14%	2,326	1.2%	4,272	2.1%	1,072	0.5%	20,000	11%
E07000131	Harborough	Leicestershire	East Midlands	ENG	92,945	2,729	2.9%	1,881	2.0%	14,292	15%	1,019	1.1%	2,485	2.7%	443	0.5%	11,000	11%
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	110,056	3,370	3.1%	2,276	2.1%	18,060	16%	1,755	1.6%	2,796	2.5%	632	0.6%	13,000	11%
E06000016	Leicester	Leicestershire	East Midlands	ENG	424,495	9,882	2.3%	5,210	1.2%	51,880	12%	3,552	0.8%	4,503	1.1%	1,441	0.3%	30,000	8%
E07000133	Melton	Leicestershire	East Midlands	ENG	54,148	1,795	3.3%	1,107	2.0%	9,365	17%	817	1.5%	1,586	2.9%	399	0.7%	7,000	14%
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	113,602	3,472	3.1%	2,208	1.9%	17,599	15%	1,324	1.2%	2,871	2.5%	613	0.5%	13,000	12%
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	65,743	2,009	3.1%	1,262	1.9%	10,249	16%	904	1.4%	1,525	2.3%	323	0.5%	7,400	13%
E07000136	Boston	Lincolnshire	East Midlands	ENG	88,127	3,035	3.4%	1,890	2.1%	13,744	16%	1,038	1.2%	2,022	2.3%	559	0.6%	11,000	16%
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	150,158	8,031	5.3%	4,681	3.1%	30,743	20%	2,849	1.9%	5,503	3.7%	1,448	1.0%	28,000	20%
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	115,535	3,150	2.7%	1,904	1.6%	14,010	12%	957	0.8%	2,077	1.8%	553	0.5%	11,000	11%
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	171,728	6,373	3.7%	4,138	2.4%	27,408	16%	1,503	0.9%	4,618	2.7%	1,571	0.9%	22,000	14%
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	99,943	3,914	3.9%	2,193	2.2%	16,370	16%	1,224	1.2%	2,764	2.8%	602	0.6%	13,000	11%
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	187,391	7,782	4.2%	4,087	2.2%	31,686	17%	1,644	0.9%	4,585	2.4%	1,188	0.6%	24,000	14%
E07000140	South Holland	Lincolnshire	East Midlands	ENG	96,586	3,882	4.0%	2,289	2.4%	18,014	19%	1,711	1.8%	2,688	2.8%	639	0.7%	14,000	15%
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	162,299	6,354	3.9%	3,618	2.2%	28,680	18%	2,751	1.7%	4,610	2.8%	1,057	0.7%	23,000	16%
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	82,074	3,474	4.2%	1,952	2.4%	14,245	17%	1,059	1.3%	2,322	2.8%	611	0.7%	12,000	13%
E08000011	Knowsley	Merseyside	North West	ENG	164,826	6,549	4.0%	3,125	1.9%	25,338	15%	1,819	1.1%	3,514	2.1%	1,530	0.9%	20,000	13%
E08000012	Liverpool	Merseyside	North West	ENG	577,593	18,098	3.1%	10,111	1.8%	77,298	13%	5,934	1.0%	11,007	1.9%	4,197	0.7%	61,000	13%
E08000014	Sefton	Merseyside	North West	ENG	279,103	11,473	4.1%	6,638	2.4%	47,762	17%	3,962	1.4%	8,433	3.0%	2,257	0.8%	40,000	14%
E08000013	St. Helens	Merseyside	North West	ENG	200,349	8,376	4.2%	4,146	2.1%	34,512	17%	2,126	1.1%	5,369	2.7%	1,693	0.8%	27,000	15%
E08000015	Wirral	Merseyside	North West	ENG	339,544	13,125	3.9%	7,783	2.3%	55,398	16%	5,118	1.5%	10,340	3.0%	2,790	0.8%	48,000	15%
E07000143	Breckland	Norfolk	East of England	ENG	143,150	5,382	3.8%	3,321	2.3%	24,411	17%	1,446	1.0%	4,201	2.9%	929	0.6%	19,000	13%
E07000144	Broadland	Norfolk	East of England	ENG	113,650	3,912	3.4%	2,564	2.3%	18,677	16%	1,026	0.9%	3,269	2.9%	694	0.6%	14,000	11%
E07000145	Great Yarmouth	Norfolk	East of England	ENG	109,102	4,202	3.9%	2,563	2.3%	19,122	18%	1,050	1.0%	2,609	2.4%	908	0.8%	14,000	14%
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	155,885	6,455	4.1%	4,216	2.7%	27,862	18%	1,606	1.0%	5,010	3.2%	916	0.6%	22,000	14%
E07000147	North Norfolk	Norfolk	East of England	ENG	106,127	5,063	4.8%	3,329	3.1%	21,677	20%	1,359	1.3%	4,276	4.0%	835	0.8%	18,000	17%
E07000148	Norwich	Norfolk	East of England	ENG	177,780	4,374	2.5%	3,009	1.7%	19,962	11%	1,311	0.7%	3,097	1.7%	878	0.5%	16,000	11%
E07000149	South Norfolk	Norfolk	East of England	ENG	142,588	4,763	3.3%	3,117	2.2%	21,738	15%	1,118	0.8%	3,711	2.6%	713	0.5%	17,000	12%
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	383,520	12,354	3.3%	6,972	1.8%	58,231	15%	4,470	1.1%	8,259	2.1%	2,500	0.7%	42,000	12%
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	438,123	11,368	2.7%	6,733	1.5%	61,415	14%	3,485	0.8%	9,008	2.0%	2,299	0.5%	40,000	9%
E06000057	Northumberland	Northumberland	North East	ENG	331,613	15,027	4.5%	9,233	2.8%	59,403	18%	5,794	1.7%	9,982	3.0%	2,952	0.9%	53,000	16%
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	129,267	4,754	3.7%	2,775	2.1%	19,781	15%	1,554	1.2%	2,795	2.2%	857	0.7%	16,000	13%
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	118,453	4,118	3.5%	2,579	2.2%	17,751	15%	1,658	1.4%	3,368	2.8%	1,029	0.9%	16,000	14%
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	107,423	3,756	3.5%	2,287	2.1%	16,448	15%	1,514	1.4%	2,772	2.6%	643	0.6%	13,000	12%
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	95,309	3,236	3.4%	2,102	2.2%	14,474	15%	922	1.0%	2,304	2.4%	556	0.6%	11,000	9%
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	104,787	3,851	3.7%	1,970	1.9%	15,798	15%	1,022	1.0%	2,271	2.2%	624	0.6%	12,000	11%
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	152,555	5,721	3.8%	3,552	2.3%	24,439	16%	1,636	1.1%	4,010	2.6%	946	0.6%	20,000	16%
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	392,795	9,009	2.3%	5,432	1.4%	40,920	10%	2,966	0.8%	5,009	1.3%	1,806	0.5%	30,000	9%
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	125,433	3,920	3.1%	2,564	2.0%	17,382	14%	1,254	1.0%	3,226	2.6%	575	0.5%	14,000	12%
E07000177	Cherwell	Oxfordshire	South East	ENG	178,005	4,478	2.5%	3,267	1.8%	23,200	13%	1,516	0.9%	3,778	2.1%	947	0.5%	17,000	11%
E07000178	Oxford	Oxfordshire	South East	ENG	222,603	3,218	1.4%	2,471	1.1%	18,779	8%	1,183	0.5%	2,689	1.2%	750	0.3%	13,000	8%
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	154,602	3,889	2.5%	2,926	1.9%	21,564	14%	1,430	0.9%	3,949	2.6%	733	0.5%	16,000	11%
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	128,487	3,370	2.6%	2,846	2.2%	18,015	14%	1,076	0.8%	3,064	2.4%	612	0.5%	13,000	9%
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	118,857	3,349	2.8%	2,478	2.1%	19,036	16%	1,303	1.1%	3,342	2.8%	629	0.5%	14,000	12%
E06000017	Rutland	Rutland	East Midlands	ENG	41,818	1,464	3.5%	979	2.3%	7,523	18%	735	1.8%	1,403	3.4%	241	0.6%	5,900	14%
E06000051	Shropshire	Shropshire	West Midlands	ENG	324,294	12,195	3.8%	8,716	2.7%	54,789	17%	3,593	1.1%	9,731	3.0%	2,605	0.8%	45,000	14%
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	198,495	6,016	3.0%	3,910	2.0%	28,081	14%	1,603	0.8%	3,879	2.0%	1,309	0.7%	21,000	11%
E06000022	Bath and North East Somerset	Somerset	South West	ENG	217,379	6,098	2.8%	3,937	1.8%	27,670	13%	2,103	1.0%	5,153	2.4%	1,053</			

Table 2.15 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

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region/nation tables see 2.7

shaded entries merged April 2023

region/nation tables see 2.7 shaded entries merged April 2023					GP PREVALENCE DATA (PATIENT REGISTERS)												BHF Heart & Circulatory Diseases (CVD) Estimate		
					Patient List (all ages)	Coronary Heart Disease Register		Stroke/TIA Register		Hypertension Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register			
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N		Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	% popn
E07000246	Somerset West and Taunton > SOMERSET	Somerset	South West	ENG	162,841	6,203	3.8%	4,061	2.5%	26,812	16%	1,805	1.1%	5,073	3.1%	1,323	0.8%	23,000	15%
E07000189	South Somerset > SOMERSET	Somerset	South West	ENG	180,284	6,854	3.8%	4,325	2.4%	32,567	18%	2,373	1.3%	5,732	3.2%	1,440	0.8%	25,000	14%
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	107,753	3,999	3.7%	2,099	1.9%	17,599	16%	1,229	1.1%	2,568	2.4%	753	0.7%	13,000	13%
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	132,767	4,074	3.1%	2,289	1.7%	18,618	14%	1,424	1.1%	2,874	2.2%	617	0.5%	14,000	11%
E07000194	Lichfield	Staffordshire	West Midlands	ENG	85,104	3,097	3.6%	1,707	2.0%	13,520	16%	955	1.1%	2,497	2.9%	463	0.5%	11,000	10%
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	130,654	4,528	3.5%	3,168	2.4%	21,860	17%	1,463	1.1%	3,492	2.7%	906	0.7%	17,000	14%
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	94,509	3,449	3.6%	2,128	2.3%	16,123	17%	987	1.0%	2,753	2.9%	524	0.6%	12,000	11%
E07000197	Stafford	Staffordshire	West Midlands	ENG	131,214	4,574	3.5%	2,914	2.2%	20,864	16%	1,504	1.1%	3,555	2.7%	878	0.7%	17,000	12%
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	92,187	3,664	4.0%	2,398	2.6%	17,435	19%	1,186	1.3%	2,918	3.2%	605	0.7%	13,000	14%
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	293,322	9,819	3.3%	6,111	2.1%	47,898	16%	3,179	1.1%	6,398	2.2%	2,193	0.7%	34,000	13%
E07000199	Tamworth	Staffordshire	West Midlands	ENG	91,215	3,095	3.4%	1,693	1.9%	13,148	14%	892	1.0%	2,114	2.3%	482	0.5%	10,000	13%
E07000200	Babergh	Suffolk	East of England	ENG	90,354	3,569	4.0%	2,048	2.3%	15,699	17%	1,398	1.5%	2,802	3.1%	585	0.6%	13,000	14%
E07000244	East Suffolk	Suffolk	East of England	ENG	245,201	10,412	4.2%	6,133	2.5%	43,924	18%	3,498	1.4%	7,879	3.2%	1,861	0.8%	37,000	15%
E07000202	Ipswich	Suffolk	East of England	ENG	182,369	5,425	3.0%	3,098	1.7%	24,389	13%	1,846	1.0%	3,589	2.0%	1,029	0.6%	18,000	13%
E07000203	Mid Suffolk	Suffolk	East of England	ENG	98,191	3,517	3.6%	2,163	2.2%	16,993	17%	1,295	1.3%	2,845	2.9%	560	0.6%	13,000	13%
E07000245	West Suffolk	Suffolk	East of England	ENG	197,888	6,517	3.3%	3,796	1.9%	30,502	15%	2,358	1.2%	5,073	2.6%	1,207	0.6%	23,000	13%
E07000207	Elmbridge	Surrey	South East	ENG	153,607	3,418	2.2%	2,358	1.5%	17,568	11%	934	0.6%	3,203	2.1%	535	0.3%	13,000	9%
E07000208	Epsom and Ewell	Surrey	South East	ENG	86,628	2,185	2.5%	1,412	1.6%	11,543	13%	492	0.6%	1,827	2.1%	352	0.4%	7,700	10%
E07000209	Guildford	Surrey	South East	ENG	126,474	2,699	2.1%	1,611	1.3%	14,558	12%	823	0.7%	2,557	2.0%	462	0.4%	10,000	7%
E07000210	Mole Valley	Surrey	South East	ENG	95,863	2,827	2.9%	1,974	2.1%	14,176	15%	686	0.7%	2,747	2.9%	487	0.5%	11,000	13%
E07000211	Reigate and Banstead	Surrey	South East	ENG	149,474	3,814	2.6%	2,527	1.7%	19,370	13%	995	0.7%	3,460	2.3%	624	0.4%	14,000	9%
E07000212	Runnymede	Surrey	South East	ENG	83,537	2,163	2.6%	1,422	1.7%	10,881	13%	647	0.8%	1,832	2.2%	425	0.5%	8,000	9%
E07000213	Spelthorne	Surrey	South East	ENG	107,214	3,139	2.9%	1,918	1.8%	15,737	15%	941	0.9%	2,448	2.3%	552	0.5%	11,000	11%
E07000214	Surrey Heath	Surrey	South East	ENG	110,290	3,002	2.7%	1,841	1.7%	15,347	14%	769	0.7%	2,576	2.3%	479	0.4%	11,000	12%
E07000215	Tandridge	Surrey	South East	ENG	90,305	2,861	3.2%	1,752	1.9%	12,374	14%	788	0.9%	2,426	2.7%	443	0.5%	10,000	11%
E07000216	Waverley	Surrey	South East	ENG	159,610	4,678	2.9%	2,849	1.8%	22,779	14%	1,548	1.0%	4,588	2.9%	746	0.5%	18,000	14%
E07000217	Woking	Surrey	South East	ENG	121,783	2,883	2.4%	1,775	1.5%	14,608	12%	874	0.7%	2,401	2.0%	512	0.4%	10,000	10%
E08000037	Gateshead	Tyne & Wear	North East	ENG	209,433	7,725	3.7%	5,026	2.4%	34,319	16%	2,441	1.2%	5,067	2.4%	1,881	0.9%	27,000	14%
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	336,537	9,241	2.7%	5,853	1.7%	40,139	12%	2,764	0.8%	5,478	1.6%	2,459	0.7%	32,000	11%
E08000022	North Tyneside	Tyne & Wear	North East	ENG	217,753	8,647	4.0%	5,590	2.6%	34,485	16%	3,353	1.5%	5,198	2.4%	1,917	0.9%	30,000	14%
E08000023	South Tyneside	Tyne & Wear	North East	ENG	158,827	6,604	4.2%	3,442	2.2%	24,902	16%	2,325	1.5%	3,996	2.5%	1,466	0.9%	22,000	15%
E08000024	Sunderland	Tyne & Wear	North East	ENG	286,617	12,732	4.4%	6,444	2.2%	49,060	17%	3,327	1.2%	7,272	2.5%	2,515	0.9%	40,000	15%
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	67,748	2,045	3.0%	1,417	2.1%	10,853	16%	634	0.9%	1,570	2.3%	345	0.5%	7,400	11%
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	128,917	3,779	2.9%	2,641	2.0%	22,152	17%	1,397	1.1%	2,860	2.2%	832	0.6%	14,000	10%
E07000220	Rugby	Warwickshire	West Midlands	ENG	117,444	2,849	2.4%	1,986	1.7%	15,482	13%	973	0.8%	2,328	2.0%	632	0.5%	11,000	10%
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	154,680	4,875	3.2%	3,579	2.3%	25,542	17%	1,723	1.1%	4,469	2.9%	817	0.5%	19,000	14%
E07000222	Warwick	Warwickshire	West Midlands	ENG	152,185	3,952	2.6%	2,895	1.9%	20,433	13%	1,371	0.9%	3,409	2.2%	709	0.5%	15,000	10%
E08000025	Birmingham	West Midlands	West Midlands	ENG	1,339,600	35,023	2.6%	18,489	1.4%	158,357	12%	9,453	0.7%	18,163	1.4%	5,625	0.4%	110,000	10%
E08000026	Coventry	West Midlands	West Midlands	ENG	430,876	9,140	2.1%	6,025	1.4%	51,874	12%	3,031	0.7%	6,086	1.4%	2,137	0.5%	32,000	9%
E08000027	Dudley	West Midlands	West Midlands	ENG	331,379	13,337	4.0%	6,566	2.0%	56,942	17%	3,267	1.0%	8,515	2.6%	1,935	0.6%	41,000	13%
E08000028	Sandwell	West Midlands	West Midlands	ENG	366,390	12,904	3.5%	5,750	1.6%	54,388	15%	3,357	0.9%	6,006	1.6%	1,901	0.5%	37,000	11%
E08000029	Solihull	West Midlands	West Midlands	ENG	234,349	7,109	3.0%	4,469	1.9%	34,497	15%	2,070	0.9%	5,323	2.3%	1,266	0.5%	25,000	12%
E08000030	Walsall	West Midlands	West Midlands	ENG	297,341	11,256	3.8%	5,235	1.8%	44,620	15%	3,225	1.1%	6,320	2.1%	1,857	0.6%	34,000	12%
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	295,365	8,669	2.9%	5,062	1.7%	41,610	14%	3,004	1.0%	5,284	1.8%	1,596	0.5%	29,000	11%
E07000223	Adur	West Sussex	South East	ENG	65,218	2,570	3.9%	1,396	2.1%	11,140	17%	687	1.1%	2,010	3.1%	515	0.8%	8,800	14%
E07000224	Arun	West Sussex	South East	ENG	169,141	7,274	4.3%	4,456	2.6%	30,664	18%	1,985	1.2%	5,761	3.4%	1,281	0.8%	26,000	16%
E07000225	Chichester	West Sussex	South East	ENG	115,386	4,350	3.8%	2,864	2.5%	18,532	16%	1,206	1.0%	3,695	3.2%	678	0.6%	16,000	13%
E07000226	Crawley	West Sussex	South East	ENG	140,334	3,865	2.8%	1,978	1.4%	17,980	13%	1,078	0.8%	2,319	1.7%	546	0.4%	12,000	10%
E07000227	Horsham	West Sussex	South East	ENG	152,046	4,978	3.3%	3,058	2.0%	22,663	15%	1,137	0.7%	4,143	2.7%	724	0.5%	17,000	12%
E07000228	Mid Sussex	West Sussex	South East	ENG	162,638	5,059	3.1%	3,450	2.1%	23,897	15%	1,582	1.0%	4,335	2.7%	781	0.5%	19,000	12%
E07000229	Worthing	West Sussex	South East	ENG	117,962	4,470	3.8%	2,777	2.4%	19,490	17%	1,317	1.1%	3,431	2.9%	829	0.7%	16,000	14%
E06000030	Swindon	Wiltshire	South West	ENG	243,668	6,645	2.7%	3,888	1.6%	35,134	14%	2,432	1.0%	4,696	1.9%	1,363	0.6%	23,000	10%
E06000054	Wiltshire	Wiltshire	South West	ENG	505,550	17,425	3.4%	11,190	2.2%	78,416	16%	5,595	1.1%	14,151	2.8%	3,099	0.6%	63,000	12%
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	99,223	3,314	3.3%	2,267	2.3%	15,218	15%	1,104	1.1%	2,580	2.6%	539	0.5%	12,000	12%
E07000235	Malvern Hills	Worcestershire	West Midlands																

Table 2.15 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

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region/nation tables see 2.7

shaded entries merged April 2023

region/nation tables see 2.7 shaded entries merged April 2023					GP PREVALENCE DATA (PATIENT REGISTERS)														BHF Heart & Circulatory Diseases (CVD) Estimate	
					Patient List (all ages)	Coronary Heart Disease Register		Stroke/TIA Register		Hypertension Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register				
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N		Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	% popn	
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	109,304	4,157	3.8%	3,008	2.8%	20,468	19%	1,733	1.6%	3,260	3.0%	815	0.7%	16,000	16%	
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	326,064	15,300	4.7%	7,851	2.4%	59,347	18%	4,399	1.3%	10,129	3.1%	2,745	0.8%	49,000	14%	
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	307,146	10,643	3.5%	4,766	1.6%	43,592	14%	2,511	0.8%	5,394	1.8%	2,296	0.7%	31,000	12%	
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	167,475	5,482	3.3%	3,174	1.9%	21,786	13%	1,241	0.7%	3,099	1.9%	1,277	0.8%	18,000	13%	
E06000065	North Yorkshire (NEW)	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	584,805	23,723	4.1%	15,083	2.6%	99,971	17%	7,555	1.3%	17,869	3.1%	5,023	0.9%	89,000	14%	
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	137,902	5,627	4.1%	3,401	2.5%	24,258	18%	1,468	1.1%	3,556	2.6%	1,246	0.9%	19,000	14%	
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	233,046	6,828	2.9%	4,711	2.0%	28,820	12%	2,544	1.1%	5,324	2.3%	1,551	0.7%	26,000	13%	
E07000163	Craven > N YORKS	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	30,391	1,211	4.0%	830	2.7%	5,650	19%	335	1.1%	961	3.2%	310	1.0%	8,500	15%	
E07000164	Hambleton > N YORKS	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	88,669	3,588	4.0%	2,658	3.0%	15,893	18%	1,297	1.5%	2,986	3.4%	672	0.8%	14,000	15%	
E07000165	Harrogate > N YORKS	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	168,381	6,328	3.8%	3,744	2.2%	26,622	16%	1,878	1.1%	4,924	2.9%	1,309	0.8%	22,000	13%	
E07000166	Richmondshire > N YORKS	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	44,701	1,646	3.7%	1,257	2.8%	8,268	18%	477	1.1%	1,351	3.0%	316	0.7%	6,200	12%	
E07000167	Ryedale > N YORKS	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	52,241	2,174	4.2%	1,374	2.6%	9,140	17%	774	1.5%	1,673	3.2%	409	0.8%	7,900	14%	
E07000168	Scarborough > N YORKS	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	118,833	5,863	4.9%	3,341	2.8%	22,160	19%	1,922	1.6%	3,875	3.3%	1,402	1.2%	20,000	18%	
E07000169	Selby > N YORKS	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	81,589	2,913	3.6%	1,879	2.3%	12,238	15%	872	1.1%	2,099	2.6%	605	0.7%	10,000	11%	
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	265,577	11,074	4.2%	5,945	2.2%	41,135	15%	3,048	1.1%	6,121	2.3%	2,661	1.0%	35,000	14%	
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	331,903	10,703	3.2%	6,801	2.0%	51,160	15%	3,942	1.2%	7,810	2.4%	2,515	0.8%	39,000	13%	
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	267,038	10,134	3.8%	5,981	2.2%	42,809	16%	2,746	1.0%	6,421	2.4%	1,940	0.7%	33,000	12%	
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	618,854	19,943	3.2%	12,829	2.1%	80,279	13%	7,352	1.2%	13,085	2.1%	4,089	0.7%	70,000	13%	
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	626,947	19,468	3.1%	10,753	1.7%	85,250	14%	6,121	1.0%	10,640	1.7%	4,193	0.7%	59,000	11%	
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	222,570	7,723	3.5%	4,553	2.0%	31,042	14%	2,086	0.9%	4,646	2.1%	1,721	0.8%	25,000	12%	
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	450,837	14,897	3.3%	8,520	1.9%	65,713	15%	4,107	0.9%	8,303	1.8%	3,359	0.7%	48,000	11%	
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	910,116	24,302	2.7%	15,472	1.7%	114,314	13%	8,757	1.0%	15,796	1.7%	5,666	0.6%	86,000	11%	
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	388,571	13,783	3.5%	8,417	2.2%	60,502	16%	3,621	0.9%	8,634	2.2%	2,778	0.7%	46,000	13%	
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	132,741	4,906	3.7%	2,534	1.9%	18,403	14%	1,212	0.9%	2,810	2.1%			15,000	10%	
N09000011	Ards and North Down		Northern Ireland	NI	164,188	7,451	4.5%	3,725	2.3%	24,515	15%	1,899	1.2%	4,281	2.6%			22,000	13%	
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	226,684	7,852	3.5%	3,965	1.7%	30,366	13%	2,451	1.1%	4,420	1.9%			24,000	11%	
N09000003	Belfast		Northern Ireland	NI	431,620	15,258	3.5%	8,668	2.0%	55,238	13%	4,020	0.9%	8,409	1.9%			47,000	14%	
N09000004	Causeway Coast and Glens		Northern Ireland	NI	150,223	5,866	3.9%	3,307	2.2%	23,608	16%	1,513	1.0%	3,686	2.5%			18,000	13%	
N09000005	Derry City and Strabane		Northern Ireland	NI	175,051	5,623	3.2%	3,264	1.9%	23,385	13%	1,462	0.8%	3,397	1.9%			18,000	12%	
N09000006	Fermanagh and Omagh		Northern Ireland	NI	124,117	4,723	3.8%	2,661	2.1%	19,280	16%	1,111	0.9%	2,990	2.4%			15,000	13%	
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	119,941	4,398	3.7%	2,501	2.1%	16,405	14%	1,034	0.9%	2,761	2.3%			13,000	9%	
N09000008	Mid and East Antrim		Northern Ireland	NI	144,665	5,764	4.0%	2,988	2.1%	22,026	15%	1,297	0.9%	3,459	2.4%			17,000	12%	
N09000009	Mid Ulster		Northern Ireland	NI	157,172	5,428	3.5%	2,634	1.7%	20,431	13%	1,458	0.9%	3,034	1.9%			16,000	11%	
N09000010	Newry, Mourne and Down		Northern Ireland	NI	192,569	6,611	3.4%	3,359	1.7%	26,660	14%	2,262	1.2%	3,999	2.1%			20,000	11%	
S12000033	Aberdeen City		Scotland	SCO	247,078	8,133	3.3%	4,395	1.8%	28,418	12%	1,756	0.7%	3,827	1.5%	1,841	0.7%	25,000	11%	
S12000034	Aberdeenshire		Scotland	SCO	243,833	9,100	3.7%	4,747	1.9%	34,091	14%	2,203	0.9%	4,735	1.9%	1,810	0.7%	28,000	11%	
S12000041	Angus		Scotland	SCO	119,375	5,187	4.3%	3,259	2.7%	19,418	16%	925	0.8%	2,770	2.3%	1,212	1.0%	17,000	15%	
S12000035	Argyll and Bute		Scotland	SCO	88,520	4,356	4.9%	2,566	2.9%	15,453	17%	926	1.0%	2,473	2.8%	855	1.0%	14,000	16%	
S12000036	City of Edinburgh		Scotland	SCO	560,720	14,611	2.6%	9,678	1.7%	57,724	10%	3,201	0.6%	8,036	1.4%	3,314	0.6%	48,000	9%	
S12000005	Clackmannanshire		Scotland	SCO	57,227	2,575	4.5%	1,427	2.5%	8,881	16%	547	1.0%	1,106	1.9%	534	0.9%	7,700	15%	
S12000006	Dumfries and Galloway		Scotland	SCO	153,936	7,628	5.0%	4,085	2.7%	26,264	17%	1,351	0.9%	4,062	2.6%	1,516	1.0%	23,000	15%	
S12000042	Dundee City		Scotland	SCO	162,650	6,178	3.8%	3,857	2.4%	21,824	13%	1,711	1.1%	2,954	1.8%	1,799	1.1%	21,000	14%	
S12000008	East Ayrshire		Scotland	SCO	128,473	6,383	5.0%	3,583	2.8%	21,727	17%	1,577	1.2%	2,695	2.1%	1,408	1.1%	20,000	16%	
S12000045	East Dunbartonshire		Scotland	SCO	107,645	4,359	4.0%	2,526	2.3%	16,128	15%	1,032	1.0%	2,626	2.4%	606	0.6%	14,000	13%	
S12000010	East Lothian		Scotland	SCO	111,007	4,359	3.9%	2,686	2.4%	16,022	14%	986	0.9%	2,343	2.1%	936	0.8%	14,000	13%	
S12000011	East Renfrewshire		Scotland	SCO	108,788	3,870	3.6%	2,265	2.1%	13,506	12%	870	0.8%	1,932	1.8%	608	0.6%	12,000	12%	
S12000014	Falkirk		Scotland	SCO	162,976	7,045	4.3%	3,633	2.2%	24,526	15%	1,307	0.8%	2,962	1.8%	1,364	0.8%	20,000	12%	
S12000047	Fife		Scotland	SCO	383,447	14,913	3.9%	9,670	2.5%	59,182	15%	3,068	0.8%	6,968	1.8%	3,690	1.0%	48,000	13%	
S12000049	Glasgow City		Scotland	SCO	728,969	24,945	3.4%	14,482	2.0%	79,113	11%	6,047	0.8%	10,282	1.4%	5,299	0.7%	76,000	12%	
S12000017	Highland		Scotland	SCO	240,679	10,741	4.5%	6,149	2.6%	36,574	15%	2,403	1.0%	5,520	2.3%	2,468	1.0%	34,000	14%	
S12000018	Inverclyde		Scotland	SCO	80,774	4,194	5.2%	2,532	3.1%	12,688	16%	815	1.0%	1,696	2.1%	888	1.1%	13,000	17%	
S12000019	Midlothian		Scotland	SCO	96,612	3,885	4.0%	2,317	2.4%	13,821	14%	954	1.0%	1,843	1.9%	936	1.0%	12,000	13%	
S12000020	Moray		Scotland	SCO	93,430	3,912	4.2%	2,292	2.5%	14,219	15%	1,029	1.1%	2,081	2.2%	824	0.9%	13,000	13%	
S12000013	Na h-Eileanan Siar (Western Isles)		Scotland	SCO	26,845	1,508	5.6%	725	2.7%	5,216	19%	46								

Table 2.15 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

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region/nation tables see 2.7 shaded entries merged April 2023					GP PREVALENCE DATA (PATIENT REGISTERS)												BHF Heart & Circulatory Diseases (CVD) Estimate		
					Patient List <i>(all ages)</i>	Coronary Heart Disease Register		Stroke/TIA Register		Hypertension Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register			
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N		Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	% popn
S12000038	Renfrewshire		Scotland	SCO	182,675	8,007	4.4%	4,126	2.3%	26,466	14%	1,873	1.0%	3,659	2.0%	1,513	0.8%	24,000	13%
S12000026	Scottish Borders		Scotland	SCO	119,046	5,537	4.7%	3,413	2.9%	17,992	15%	1,126	0.9%	2,890	2.4%	1,074	0.9%	18,000	16%
S12000027	Shetland Islands		Scotland	SCO	22,696	788	3.5%	431	1.9%	3,811	17%	297	1.3%	557	2.5%	197	0.9%	2,800	12%
S12000028	South Ayrshire		Scotland	SCO	113,913	5,975	5.2%	3,405	3.0%	19,491	17%	1,168	1.0%	2,749	2.4%	1,243	1.1%	18,000	16%
S12000029	South Lanarkshire		Scotland	SCO	335,602	14,093	4.2%	7,777	2.3%	48,601	14%	2,412	0.7%	6,609	2.0%	2,784	0.8%	42,000	13%
S12000030	Stirling		Scotland	SCO	98,046	3,513	3.6%	1,874	1.9%	12,528	13%	765	0.8%	1,757	1.8%	599	0.6%	11,000	12%
S12000039	West Dunbartonshire		Scotland	SCO	96,129	4,367	4.5%	2,465	2.6%	14,424	15%	1,165	1.2%	2,148	2.2%	1,098	1.1%	14,000	16%
S12000040	West Lothian		Scotland	SCO	194,520	6,880	3.5%	4,147	2.1%	26,467	14%	1,297	0.7%	3,070	1.6%	1,615	0.8%	21,000	11%
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	116,701	5,138	4.4%	2,926	2.5%	21,137	18%	1,546	1.3%	3,387	2.9%			15,000	13%
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	112,119	4,714	4.2%	2,549	2.3%	19,276	17%	1,392	1.2%	3,128	2.8%			13,000	14%
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	153,155	5,571	3.6%	2,983	1.9%	24,818	16%	1,585	1.0%	3,689	2.4%			16,000	10%
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	137,501	4,755	3.5%	2,751	2.0%	23,141	17%	1,497	1.1%	3,133	2.3%			14,000	10%
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	174,183	7,518	4.3%	4,263	2.4%	28,698	16%	2,093	1.2%	5,173	3.0%			21,000	11%
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	93,036	3,553	3.8%	2,021	2.2%	15,547	17%	1,357	1.5%	2,612	2.8%			11,000	16%
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	120,802	4,750	3.9%	3,044	2.5%	21,620	18%	1,402	1.2%	3,983	3.3%			15,000	12%
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	71,773	3,032	4.2%	1,624	2.3%	13,422	19%	1,072	1.5%	1,620	2.3%			8,300	12%
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	187,510	7,009	3.7%	3,767	2.0%	31,104	17%	1,667	0.9%	4,162	2.2%			19,000	11%
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	101,517	3,778	3.7%	2,508	2.5%	17,151	17%	1,556	1.5%	2,993	2.9%			12,000	13%
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	159,783	4,907	3.1%	2,870	1.8%	22,548	14%	1,300	0.8%	2,971	1.9%			14,000	9%
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	96,863	3,651	3.8%	2,090	2.2%	15,679	16%	1,042	1.1%	2,351	2.4%			10,000	11%
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	126,905	4,183	3.3%	2,542	2.0%	20,487	16%	1,347	1.1%	3,119	2.5%			13,000	11%
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	65,716	2,606	4.0%	1,684	2.6%	11,764	18%	788	1.2%	1,826	2.8%			7,800	11%
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	159,454	6,388	4.0%	4,402	2.8%	26,974	17%	1,896	1.2%	4,302	2.7%			19,000	13%
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	61,130	2,209	3.6%	1,296	2.1%	10,302	17%	585	1.0%	1,386	2.3%			6,200	11%
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	245,950	9,270	3.8%	5,215	2.1%	41,481	17%	2,232	0.9%	5,774	2.3%			25,000	11%
W06000023	Powys	Powys	Wales / Cymru	WAL	139,458	5,676	4.1%	3,730	2.7%	24,313	17%	1,836	1.3%	4,111	2.9%			17,000	13%
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	387,023	9,758	2.5%	6,106	1.6%	45,901	12%	3,478	0.9%	6,268	1.6%			29,000	8%
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	131,256	4,376	3.3%	2,915	2.2%	20,059	15%	1,579	1.2%	3,240	2.5%			14,000	11%
W06000012	Neath/Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	146,956	5,768	3.9%	3,449	2.3%	24,130	16%	1,861	1.3%	3,726	2.5%			17,000	12%
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	253,408	8,564	3.4%	5,512	2.2%	35,614	14%	2,944	1.2%	5,951	2.3%			26,000	11%

Notes:

TIA = transient ischaemic attacks; PAD = peripheral arterial disease

Local authorities updated to April 2023 - shaded entries merged into new councils from this month.

These data show total numbers of people on GP patient registers in each area. GPs allocated to region and nation by main office postcode (BHF analysis using CACI InSite)

Adjustments have been made where patients were missing from lists, or active practices did not file patient numbers in the latest year.

BHF CVD estimates based on latest prevalence data; NHS England/PH Scotland/StatsWales/DH Northern Ireland and health surveys: NHS England and Welsh/Scottish Government; plus ONS population estimates

- CVD estimate shows percentage of population (mid-2021 ONS estimates) and not a proportion of the list size

region/nation totals see Table 2.7

Citation:

BHF (2023) Analysis of UK GP patient register data [except CVD = BHF 2023 estimates]

Source:

England - NHS England. Quality & Outcomes Framework (QOF) prevalence data 2021/22

<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2021-22>

Wales - StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2019/20; updates not available

<https://statswales.gov.wales/Catalogue/Health-and-Social-Care/NHS-Primary-and-Community-Activity/GMS-Contract>

Scotland - Public Health Scotland. GP prevalence data 2018/19; updates not available

<https://beta.isdscotland.org/find-publications-and-data/health-services/primary-care/general-practice-disease-prevalence-data-visualisation/>

Northern Ireland - Department of Health, Quality & Outcomes Framework (QOF) prevalence data 2021/22

<https://www.health-ni.gov.uk/articles/prevalence-statistics>

Table 2.16 Prevalence of selected cardiovascular conditions by sex, England 2003 to 2017

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		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.

Citation:

BHF (2018) Analysis of NHS survey data

Source:

Health Survey for England 2017, NHS England (2018) [accessed December 2018; updates not available]

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

Table 2.17 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.

Citation:

BHF (2018) Analysis of NHS survey data

Source:

Health Survey for England 2017, NHS England (2018) [accessed December 2018; updates not available]

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

Table 2.18 Prevalence of selected cardiovascular conditions by equivalised household income and sex, 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.

Citation:

BHF (2018) Analysis of NHS survey data

Source:

Health Survey for England 2017, NHS England (2018) [accessed December 2018; updates not available]

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

Table 2.19 Prevalence of selected cardiovascular conditions by sex, Scotland 2003 to 2021

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		2003	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2021
		%	%	%	%	%	%	%	%	%	%	%	%	%	%
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	7.0	7
	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	4.0	4
	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	5.5	5
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	3.0	3
	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	3.0	2
	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	3.0	3
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	17.0	18
	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	14.0	14
	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	15.5	16

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 high blood pressure.

Citation:

BHF (2023) Analysis of Scottish health survey data

Source:

The Scottish Government. The Scottish Health Survey 2021 and previous editions. No data for 2020.

www.gov.scot/collections/scottish-health-survey/

Table 2.20 Prevalence of selected cardiovascular conditions by age group, Scotland 2003 to 2021

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		2003	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2021
		%	%	%	%	%	%	%	%	%	%	%	%	%	%
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	-	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	1.0	1
	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	3.0	3
	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	6.0	8
	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	13.0	10
	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	24.0	20
	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	5.5	5
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	-	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	-	-	2
	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	4.5	1
	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	4.0	3
	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	6.5	6
	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	11.0	10
	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	3.0	3
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	4.5	5
	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	6.0	9
	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	8.0	10
	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	12.0	10
	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	16.5	20
	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	26.0	26
	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	45.5	41
	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	15.5	16

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 high blood pressure.

Citation:

BHF (2023) Analysis of Scottish health survey data

Source:

The Scottish Government. The Scottish Health Survey 2021 and previous editions. No data for 2020.

www.gov.scot/collections/scottish-health-survey/

Table 2.21 Prevalence of selected cardiovascular conditions by equivalised household income and sex, Scotland 2021

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		Equivalised household income quintile				
		Highest	2nd	3rd	4th	Lowest
		%	%	%		%
CHD	Men	4	6	8	10	9
	Women	4	2	3	6	5
	All adults	4	4	5	8	7
Stroke	Men	1	3	2	5	5
	Women	3	1	2	3	4
	All adults	2	2	2	4	4
Any CVD	Men	17	15	17	22	21
	Women	15	15	11	16	16
	All adults	16	15	14	19	19

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

Citation:

BHF (2023) Analysis of Scottish health survey data

Source:

Scottish Government (2022). The Scottish Health Survey 2021. Supplementary tables.

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

Table 2.22 Prevalence of selected cardiovascular conditions by deprivation quintile and sex, Scotland 2021

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		SIMD Quintiles				
		Least deprived quintile	4th	3rd	2nd	Most deprived quintile
		%	%	%	%	%
CHD	Men	5	5	5	9	11
	Women	3	3	2	6	9
	All adults	4	4	4	7	10
Stroke	Men	3	1	2	5	6
	Women	1	1	3	4	4
	All adults	2	1	2	5	5
Any CVD	Men	15	15	17	22	22
	Women	11	15	12	17	18
	All adults	13	15	14	19	20

Notes:

For all adults aged 16 years and over. SIMD = Scottish Index of Multiple Deprivation

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

Citation:

BHF (2023) Analysis of Scottish health survey data

Source:

Scottish Government (2022). The Scottish Health Survey 2021. Supplementary tables.

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

Table 2.23 Prevalence of any cardiovascular condition by deprivation quintile and sex, Scotland 2003 to 2021

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Any CVD	SIMD Quintiles	2003 %	2008 %	2009 %	2010 %	2011 %	2012 %	2013 %	2014 %	2015 %	2016 %	2017 %	2018 %	2019 %	2021 %
Men	Least deprived quintile	12	14	13	17	14	17	13	16	13	12	13	16	14	15
	2nd	16	14	15	18	14	18	16	17	17	16	15	17	15	15
	3rd	16	17	16	15	18	13	16	18	12	18	13	15	19	17
	4th	18	18	17	17	18	21	19	17	15	18	20	16	16	22
	Most deprived quintile	22	19	22	19	20	19	19	26	23	17	25	17	22	22
Women	Least deprived quintile	11	15	10	10	13	9	12	13	13	13	12	12	11	11
	2nd	14	15	12	14	13	15	13	12	13	13	12	14	11	15
	3rd	15	17	14	13	14	16	15	13	14	14	13	17	13	12
	4th	16	16	16	18	13	17	19	14	15	15	17	16	15	17
	Most deprived quintile	19	19	19	17	18	25	21	19	20	20	21	21	18	18
All Adults	Least deprived quintile	12	14	12	13	13	13	13	14	13	12	12	14	12	13
	2nd	15	14	14	16	13	17	14	14	15	14	13	15	13	15
	3rd	16	17	15	14	16	15	15	15	13	16	13	16	16	14
	4th	17	17	16	17	15	19	19	15	15	16	18	16	16	19
	Most deprived quintile	20	19	20	18	19	23	20	23	21	19	22	19	20	20

Notes: For all adults aged 16 years and over. SIMD = Scottish Index of Multiple Deprivation

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

Citation: BHF (2023) Analysis of Scottish health survey data

Source: The Scottish Government. The Scottish Health Survey 2021 and previous editions. No data for 2020.

www.gov.scot/collections/scottish-health-survey/

Table 2.24 Prevalence of heart and circulatory complaints by sex and age, Wales 2016/17 to 2019/20

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		2016/17	2017/18	2018/19	2019/20
		%	%	%	%
Men	16-44	1.8	1.8	2.5	1.5
	45-64	16.0	16.1	16.1	16.2
	65+	32.8	33.5	33.6	32.8
	All adults	13.5	13.9	14.2	13.7
Women	16-44	3.0	2.4	2.6	2.5
	45-64	13.6	11.0	9.6	12.3
	65+	27.7	26.2	28.0	28.6
	All adults	12.7	11.4	11.5	12.5
Both	16-44	2.4	2.1	2.6	2.0
	45-64	14.8	13.5	12.7	14.2
	65+	30.1	29.6	30.6	30.5
	All adults	13.1	12.6	12.8	13.1

Notes: Adults aged 16 years and over.

Citation: BHF (2021) Analysis of Welsh survey data

Source: National Survey for Wales [accessed March 2021; updates not available]

<https://gov.wales/adult-general-health-and-illness-national-survey-wales>

Table 2.25 Prevalence of heart and circulatory complaints by deprivation quintile, Wales 2019/20

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	WIMD Quintiles				
	Least deprived	4th	3rd	2nd	Most deprived
	%	%	%	%	%
Heart & Circulatory Complaints	11.3	12.1	12.5	13.3	15.0

Notes: Adults aged 16 years and over. WIMD = Welsh Index of Multiple Deprivation

Citation: BHF (2021) Analysis of Welsh survey data

Source: National Survey for Wales: adult general health and illness by WIMD deprivation quintile [accessed March 2021; updates not available]
<https://gov.wales/adult-general-health-and-illness-national-survey-wales-april-2019-march-2020>

Table 2.26 Prevalence of congenital heart disease, diagnoses in babies, England 2019[Back to Table of Contents](#)

	Number of babies	Prevalence rate per 10,000 births
Congenital heart defects	3,852	62.6
Severe congenital heart defects	1,703	27.7
Ventricular septal defect [VSD]	1,608	26.1
Atrial septal defect [ASD]	648	10.5
Atrioventricular septal defect	364	5.9
Coarctation of aorta	296	4.8
Tetralogy of Fallot	287	4.7
Pulmonary valve stenosis	212	3.4
Transposition of great vessels [TGV/TGA]	196	3.2
Hypoplastic left heart (syndrome)	184	3.0
Double outlet right ventricle	125	2.0
Pulmonary valve atresia	102	1.7
Mitral valve anomalies	97	1.6
Aortic valve atresia/stenosis	74	1.2
Total anomalous pulmonary venous return	66	1.1
Common arterial truncus	59	1.0
Tricuspid atresia and stenosis	56	0.9
Single ventricle	37	0.6
Aortic atresia/interrupted aortic arch	27	0.4
Ebstein's anomaly	23	0.4
Patent ductus arteriosus	20	0.3
Hypoplastic right heart (syndrome)	18	0.3

Notes: Number of babies diagnosed with congenital anomalies; birth prevalence (per 10,000 total births)
Calculations based on 614,952 births in England (2019); figures include genetic conditions
Note that congenital heart disease can be diagnosed at any age; diagnoses later in childhood and adulthood are common.

Citation: BHF (2023) Analysis of NCARDRS congenital anomaly statistics [accessed March 2023]

Source: National Congenital Anomaly & Rare Disease Registration Service (NCARDRS) congenital anomaly statistics: annual data. Tables.
<https://www.gov.uk/government/publications/ncardrs-congenital-anomaly-annual-data>

Table 2.27 Prevalence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD) by nation and region, United Kingdom 2019

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Nation	English Region	Prevalence A/S CVD 2019 est	Prevalence A/S CHD 2019 est	Prevalence Stroke A/S 2019
	East Midlands	5,592	1,654	586
	East of England	5,543	1,590	576
	Greater London	5,540	1,502	560
	North East England	5,844	1,814	626
	North West England	5,820	1,740	625
	South East England	5,435	1,496	567
	South West England	5,408	1,540	587
	West Midlands	5,596	1,615	601
	Yorkshire and the Humber	5,542	1,685	610
<i>England</i>		<i>5,571</i>	<i>1,607</i>	<i>590</i>
<i>Scotland</i>		<i>5,558</i>	<i>1,783</i>	<i>1,232</i>
<i>Wales</i>		<i>5,319</i>	<i>1,787</i>	<i>805</i>
<i>Northern Ireland</i>		<i>5,151</i>	<i>1,726</i>	<i>660</i>
United Kingdom		5,546	1,635	658

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

For actual CHD/stroke prevalence totals from UK patient data, and BHF CVD estimates, see Table 2.7

Citation:

BHF (2021) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2019 (GBD 2019) Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

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

[accessed March 2021]

[no updates Mar 2023]

Table 2.28 Prevalence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2019

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Region	Country	Prevalence CVD 2019 est	Prevalence A/S CVD 2019 est	Prevalence CHD 2019 est	Prevalence A/S CHD 2019 est	Prevalence Stroke 2019 est	Prevalence Stroke A/S 2019
GLOBAL		523,199,456	6,431.6	197,219,450	2,421.0	101,474,558	1,240.3
EUROPE		94,819,276	6,428.5	37,982,644	2,459.7	13,456,010	978.8
	Albania	289,436	7,244.8	109,567	2,529.4	39,915	994.3
	Andorra	7,068	5,119.0	2,355	1,702.0	885	671.2
	Austria	1,058,981	6,271.1	306,974	1,788.1	130,632	827.7
	Belarus	1,101,143	7,056.4	580,377	3,619.9	192,844	1,305.0
	Belgium	1,182,981	5,603.3	407,560	1,878.4	138,000	697.0
	Bosnia and Herzegovina	423,873	7,338.7	181,696	3,059.9	84,587	1,510.9
	Bulgaria	1,003,030	7,425.8	444,797	3,027.1	211,510	1,605.2
	Croatia	561,125	6,732.1	255,390	2,912.8	81,664	1,026.1
	Cyprus	97,824	5,136.8	30,065	1,545.5	12,405	682.0
	Czechia	1,531,929	7,786.2	715,298	3,406.0	192,928	1,026.8
	Denmark	619,142	5,751.5	195,074	1,763.0	71,554	719.9
	Estonia	197,417	7,882.0	117,113	4,319.6	18,955	869.4
	Finland	641,021	5,620.2	221,923	1,875.7	92,719	904.9
	France	6,778,417	5,377.6	2,101,934	1,622.0	741,738	635.0
	Germany	10,170,286	5,773.5	3,646,985	1,995.1	1,317,688	796.1
	Greece	1,125,317	5,063.1	367,951	1,627.4	162,441	793.1
	Hungary	1,416,193	7,697.5	636,087	3,275.3	214,386	1,236.6
	Ireland	396,368	5,475.0	135,237	1,836.9	44,036	643.7
	Italy	9,612,414	7,499.4	2,757,143	2,032.3	772,098	632.9
	Latvia	272,328	7,129.7	148,260	3,611.3	42,211	1,228.7
	Lithuania	391,204	7,169.5	199,186	3,359.5	58,188	1,184.2
	Luxembourg	56,353	5,864.5	14,895	1,515.3	5,986	650.4
	Malta	46,291	5,255.4	14,563	1,615.5	5,354	674.4
	Moldova	382,222	6,706.9	201,318	3,479.1	59,557	1,084.3
	Montenegro	68,422	7,106.3	32,081	3,262.8	11,646	1,255.4
	Netherlands	1,768,113	5,527.6	740,162	2,259.2	216,712	731.0
	North Macedonia	212,146	6,739.4	89,809	2,848.3	50,331	1,615.4
	Norway	586,710	6,544.4	157,232	1,695.9	95,196	1,095.7
	Poland	4,238,172	6,353.9	1,491,616	2,130.2	623,986	984.2
	Portugal	1,088,398	4,870.8	304,034	1,325.3	166,193	803.9
	Romania	2,553,334	7,140.8	1,080,126	2,876.8	452,322	1,327.7
	Russian Federation	17,197,802	7,452.5	8,457,546	3,577.3	3,020,719	1,365.7
	Serbia	1,180,087	7,688.5	591,020	3,709.9	218,355	1,463.6
	Slovakia	604,373	6,796.2	254,172	2,760.1	101,260	1,166.5
	Slovenia	285,329	6,989.7	123,961	2,867.3	29,187	769.1
	Spain	4,519,727	5,028.8	1,528,788	1,685.5	552,068	663.2
	Sweden	1,230,392	6,475.8	364,179	1,819.1	176,295	1,065.3
	Switzerland	822,501	4,986.3	270,308	1,619.6	93,345	608.3
	Ukraine	5,584,329	7,485.4	3,143,342	4,050.7	926,607	1,356.5
	United Kingdom #	6,499,102	5,545.7	1,975,561	1,635.0	718,222	658.5
	England #	5,439,764	5,571.1	1,616,746	1,607.2	531,774	589.8
	Scotland #	569,537	5,557.7	189,204	1,782.6	120,587	1,231.6
	Wales #	328,120	5,318.6	114,247	1,787.5	46,305	804.7
	Northern Ireland #	161,681	5,151.1	55,365	1,726.3	19,556	660.2
NORTH AMERICA		43,975,157	7,529.2	9,986,696	1,626.2	7,702,816	1,345.6
	Canada	4,298,909	6,798.8	1,115,492	1,663.0	610,452	985.5
	United States	39,669,218	7,617.1	8,867,236	1,621.4	7,091,313	1,388.6
LATIN AMERICA & CARIBBEAN		30,325,429	5,159.2	10,957,904	1,893.5	6,641,685	1,114.2
	Brazil	12,746,932	5,453.5	4,003,896	1,708.7	2,985,012	1,256.6
ASIA		295,161,128	6,197.8	120,805,500	2,564.4	62,507,323	1,297.7
	China	120,332,012	6,176.8	45,196,852	2,322.7	28,760,186	1,468.9
	India	71,130,330	6,152.1	37,554,167	3,471.8	9,650,716	761.7
	Japan	17,250,847	5,804.5	3,696,208	1,084.0	4,027,066	1,375.9
	Turkey	5,477,042	6,240.8	2,785,049	3,227.0	1,080,379	1,213.6
	United Arab Emirates	455,632	8,472.3	197,600	5,246.7	136,808	2,225.7
AFRICA		54,708,173	7,067.2	16,461,721	2,819.4	10,511,189	1,393.3
	South Africa	3,179,254	6,740.3	926,504	2,153.9	664,089	1,413.4
AUSTRALASIA		3,022,001	6,369.2	1,387,757	2,836.8	287,249	652.3
	Australia	2,584,966	6,478.0	1,205,750	2,930.3	242,448	651.0
	New Zealand	437,034	5,784.4	182,008	2,341.9	44,801	660.8

Notes: All figures are 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>

Citation: BHF (2021) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.

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

Global Burden of Disease Study 2019 (GBD 2019) Results.

[accessed March 2021]

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

[no updates Mar 2023]



bhf.org.uk/statistics

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Heart and Circulatory Disease Statistics 2023 - 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.

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3.2	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Wales - 2004/05 to 2021/22
3.3	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Scotland - 2001/02 to 2021/22
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3.14	Out-of-hospital cardiac arrest (OHCA) survival rates, Scotland - 2011/12 to 2021/22

Table 3.1 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), England 1981 to 2021

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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	2019	2020	2021
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	2,907	2,791	2,650
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	31,573	30,987	29,975
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	971	950	926
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	39,564	40,331	40,591
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	72,986	73,622	73,108
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	51,431	52,444	52,720
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	18,871	19,453	19,666
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	33,346	33,071	32,304
Anti-fibrinolytic drugs and haemostatics (2.11)					282	327	352	358	363	373	392	396	393	408	416	409	402	414	438	442	486
Lipid-regulating 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	76,044	78,348	79,309
other BNF sections (small volumes)									16	19	21	25	24	26	32	47	64	89	116	136	153
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	328,247	332,575	331,888

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

Citation: BHF (2023) Analysis of prescription data

Source: NHS England. Prescription cost analysis to 2018
<https://digital.nhs.uk/data-and-information/publications/statistical/prescription-cost-analysis>
NHSBSA. Prescription cost analysis from 2019 [accessed Feb 2023]
<https://www.nhsbsa.nhs.uk/statistical-collections/prescription-cost-analysis-england>

Table 3.2 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Wales 2004/05 to 2021/22

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Thousands (000s)																		
Prescriptions	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	2019/20	2020/21	2021/22
Positive inotropic drugs (2.1)	361	363	354	330	314	307	294	283	270	257	247	232	223	213	203	203	194	188
Diuretics (2.2)	3,004	3,105	3,083	3,005	2,979	2,986	2,973	2,971	2,918	2,882	2,855	2,760	2,696	2,594	2,509	2,476	2,395	2,340
Anti-arrhythmic drugs (2.3)	104	98	93	85	79	73	67	64	61	61	60	59	59	58	56	57	57	57
Beta-adrenoreceptor blocking drugs (2.4)	2,007	2,115	2,091	2,070	2,113	2,187	2,254	2,356	2,433	2,520	2,600	2,653	2,710	2,744	2,775	2,871	2,862	2,908
Antihypertensive and heart failure drugs (2.5)	3,181	3,531	3,863	4,180	4,427	4,657	4,816	4,972	5,063	5,191	5,302	5,330	5,381	5,361	5,362	5,489	5,409	5,451
Nitrates, calcium blockers & other antianginal drugs (2.6)	2,627	2,777	2,932	3,044	3,137	3,228	3,273	3,342	3,385	3,442	3,493	3,511	3,553	3,543	3,560	3,668	3,647	3,712
Anticoagulants and protamine (2.8)	547	587	621	658	693	733	771	825	884	957	1,053	1,139	1,210	1,245	1,291	1,352	1,350	1,372
Antiplatelet drugs (2.9)	2,405	2,622	2,747	2,879	3,022	3,038	2,928	2,916	2,877	2,851	2,795	2,668	2,574	2,453	2,354	2,312	2,256	2,230
Anti-fibrinolytic drugs and haemostatics (2.11)	21	23	24	28	29	29	30	33	32	32	33	32	33	31	33	34	34	37
Lipid-regulating drugs (2.12)	2,712	3,239	3,734	4,041	4,345	4,619	4,715	4,843	4,971	5,092	5,153	5,124	5,136	5,148	5,159	5,306	5,315	5,401
<i>other BNF sections (small volumes)</i>							1	1	1	1	1	1	2	2	3	4	4	5
All prescriptions for disease of the circulatory system	16,969	18,460	19,542	20,321	21,140	21,858	22,123	22,605	22,896	23,284	23,592	23,510	23,576	23,394	23,305	23,772	23,523	23,702

Notes:

British National Formulary (BNF) codes in parentheses

Citation:

BHF (2023) Analysis of prescription data

Source:

Health Statistics and Analysis Unit. Prescription cost analysis. Welsh Government: Cardiff.
<https://gov.wales/prescriptions-wales> [accessed Feb 2023]

Table 3.3 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Scotland 2001/02 to 2021/22

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	Thousands (000s)																	
Prescriptions	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	2019/20	2020/21	2021/22
Positive inotropic drugs (2.1)	358	323	315	305	296	291	283	276	269	260	252	246	241	236	228	228	217	214
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	2,626	2,501	2,475
Anti-arrhythmic drugs (2.3)	102	90	85	81	77	73	70	71	69	68	67	66	66	65	65	66	64	64
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	3,414	3,356	3,450
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	5,355	5,174	5,273
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	3,842	3,729	3,827
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	1,290	1,258	1,295
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	2,847	2,764	2,750
Anti-fibrinolytic drugs and haemostatics (2.11)	35	36	38	39	41	42	43	44	47	47	47	48	47	47	49	51	49	55
Lipid-regulating 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	5002	4,989	5,003	5,009	5,173	5,080	5,182
other BNF sections (small volumes)	1	1	1	1	1	1	1	0	1	1	4	1	3	3	3	4	3	5
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	24,896	24,197	24,591

Notes: British National Formulary (BNF) codes in parentheses
Citation: BHF (2023) Analysis of prescription data
Source: Public Health Scotland. Prescription Cost Analysis. NHS National Services: Edinburgh. and previous editions.
www.isdscotland.org/Health-Topics/Prescribing-and-medicines/Community-Dispensing/Prescription-Cost-Analysis/
<https://publichealthscotland.scot/publications/dispenser-payments-and-prescription-cost-analysis/>

[to 2016]
[from 2017]

Table 3.4 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Northern Ireland 2000 to 2022

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Prescriptions	Thousands (000s)																		
	2000	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Positive inotropic drugs (2.1)	132	107	104	101	99	96	95	93	92	90	88	82	80	75	72	70	68	67	67
Diuretics (2.2)	819	1,015	1,009	992	983	983	992	1,002	996	978	961	940	926	908	896	898	893	878	871
Anti-arrhythmic drugs (2.3)	41	38	36	35	34	32	31	32	31	30	29	28	28	27	26	25	25	24	24
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	1,395	1,427	1,455	1,490
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	1,957	1,986	2,008	2,062
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	1,387	1,412	1,432	1,484
Anticoagulants and protamine (2.8)	138	183	194	207	220	233	249	274	300	334	366	394	427	454	477	502	519	530	547
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	1,124	1,113	1,094	1,080
Anti-fibrinolytic drugs and haemostatics (2.11)	10	12	12	13	13	14	14	16	17	16	16	16	16	16	17	18	18	19	20
Lipid-regulating 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	2,237	2,293	2,338	2,431
<i>other BNF sections (small volumes)</i>												3	1	1	2	2	3	3	4
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	9,616	9,757	9,848	10,080

Notes: British National Formulary (BNF) codes in parentheses

Citation: BHF (2023) Analysis of prescription data

Source: HSC (2023). Prescription Cost Analysis. Business Services Organisation: Belfast.
www.hscbusiness.hscni.net/services/3177.htm

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

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Prescriptions	England 2021	Wales 2021/22	Scotland 2021/22	Northern Ireland 2022	UK latest
Positive inotropic drugs (2.1)	2,650	188	214	67	3,120
Diuretics (2.2)	29,975	2,340	2,475	871	35,661
Anti-arrhythmic drugs (2.3)	926	57	64	24	1,072
Beta-adrenoreceptor blocking drugs (2.4)	40,591	2,908	3,450	1,490	48,439
Antihypertensive and heart failure drugs (2.5)	73,108	5,451	5,273	2,062	85,895
Nitrates, calcium blockers & other antianginal drugs (2.6)	52,720	3,712	3,827	1,484	61,742
Anticoagulants and protamine (2.8)	19,666	1,372	1,295	547	22,880
Antiplatelet drugs (2.9)	32,304	2,230	2,750	1,080	38,364
Anti-fibrinolytic drugs and haemostatics (2.11)	486	37	55	20	598
Lipid-regulating drugs (2.12)	79,309	5,401	5,182	2,431	92,324
<i>other BNF sections (small volumes)</i>	153	5	5	4	166
All prescriptions for disease of the cardiovascular system	331,888	23,702	24,591	10,080	390,261

Notes: Figures 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.

Citation: BHF (2023) Analysis of prescription data

Source: England - NHSBSA (2022). Prescription cost analysis 2021

<https://www.nhsbsa.nhs.uk/statistical-collections/prescription-cost-analysis-england>

Health Statistics and Analysis Unit (2022). Prescription cost analysis 2021/22. Welsh Government: Cardiff

<https://gov.wales/prescriptions-wales>

Public Health Scotland (2022). Prescription Cost Analysis 2021/22

<https://publichealthscotland.scot/publications/dispenser-payments-and-prescription-cost-analysis/>

HSC (2023). Prescription Cost Analysis 2022. Business Services Organisation: Belfast

www.hscbusiness.hscni.net/services/3177.htm

[all accessed Feb 2023]

Table 3.6 Number of CABGs and PCIs, United Kingdom 1977 to 2020/21[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
2019/20	14,030	100,112
2020/21	8,451 **	82,188 **

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.

Citation: BHF (2023) Analysis of BCIS/SCTS data**Source:** Data from 2016 to date taken from British Cardiovascular Intervention Society. BCIS Audit returns .<https://www.bcis.org.uk/audit-results/>

** pandemic year; excludes Scotland (see next table)

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

<https://scts.org/professionals/reports/resources/default.aspx>

Table 3.7 Number and rate of CABGs, Scotland 2008/09 to 2021/22

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Sex	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	2019/20	2020/21	2021/22
Males	Discharges	1,581	1,494	1,382	1,291	1,187	1,207	1,300	1,009	1,095	1,135	1,151	1,186	796	884
	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	44.5	29.9	33.1
	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	45.0	45.3	30.2	33.0
Females	Discharges	450	426	365	351	296	331	324	245	275	266	317	264	184	219
	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	9.4	6.6	7.8
	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	9.1	6.3	7.4
All	Discharges	2,031	1,920	1,747	1,642	1,483	1,538	1,624	1,254	1,370	1,401	1,468	1,450	980	1,103
	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	26.5	17.9	20.1
	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	27.2	28.0	27.2	18.2	20.2

Notes: The European Standard Population (ESP), which was first used in 1976, was revised in 2013. Figures using ESP1976 and ESP2013 are not comparable.

Citation: BHF (2023) Analysis of PHS data

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

All records were extracted from the SMR01 linked database.

Data for most recent year is provisional and subject to change in future analyses.

<https://publichealthscotland.scot/publications/scottish-heart-disease-statistics/>

Table 3.8 Number of valve replacements and repairs, United Kingdom 2002/03 to 2020/21

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Operation	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
Aortic valve replacement (AVR) - total activity	7,009	8,145	8,661	10,132	9,969	10,629	11,800	11,343	11,061	11,484	11,857	11,973	12,483	12,322
Isolated AVR procedures	3,777	4,351	4,546	4,971	4,809	5,279	5,815	5,706	5,263	4,865	4,733	4,671	4,767	4,919
Combined AVR and CABG procedures	2,377	2,871	3,032	3,718	3,603	3,727	4,138	3,892	3,684	3,367	3,552	3,287	3,419	3,298

Citation: BHF (2023) Analysis of SCTS data

Source: The Society for Cardiothoracic Surgery in Great Britain & Ireland (2020)
<https://scts.org/professionals/reports/resources/default.aspx>

Operation	2016/17	2017/18	2018/19	2019/20	2020/21
Aortic valve replacement (AVR) - total activity	11,447	11,353	12,608	12,612	10,506
Isolated AVR	5,297	5,041	5,039	4,584	2,790
AVR & CABG	2,896	2,657	2,682	2,352	1,388
TAVI	3,254	3,655	4,887	5,676	6,328

Citation: BHF (2023) Analysis of NICOR data

Source: NICOR, Adult Cardiac Surgery (Surgery Audit) 2022. UK data - excluding Scotland
<https://www.nicor.org.uk/adult-cardiac-surgery-surgery-audit/>

Table 3.9 Cardiothoracic transplant list, United Kingdom 2021/22[Back to Table of Contents](#)

Heart transplant list	New registrations in 2021/22		Total registrations	
	Number	%	Number	%
Remained active / suspended	130	47	368	57
Transplanted	102	37	178	28
Removed	34	12	73	11
Died	8	3	23	4
TOTAL	274		642	

Heart/lung transplant list	Number		%	
	Number	%	Number	%
Remained active / suspended	4	44	10	50
Transplanted #	0	0	3	15
Removed	5	56	6	30
Died	0	0	1	5
TOTAL	9		20	

Notes:

Includes re-registrations for second or subsequent transplants

Patients may have received heart, lung, or heart-lung

Transplant activity for the year ending 31 March 2022

Percentages may not add up to 100 due to rounding

Citation:

BHF (2023) Analysis of NHSBT data

Source:

NHS Blood and Transplant (2022). 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 2021/22

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Heart	2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20		2020/21		2021/22	
Country	<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>	<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	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	148	2.6	127	2.3	137	2.4
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	4	1.3	6	1.9	5	1.6
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	13	2.4	21	3.8	25	4.6
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	3	1.6	3	1.6	9	4.7
other #									1				2		1				6		4		3	
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	174	2.6	161	2.4	179	2.6

Heart and lung	2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20		2020/21		2021/22	
Country									<i>n</i>		<i>n</i>		<i>n</i>		<i>n</i>		<i>n</i>		<i>n</i>		<i>n</i>		<i>n</i>	
England									1		6		2		9		2		5		2		3	
Wales									0		0		0		1		2		0		0		0	
Scotland									0		0		0		1		0		0		0		0	
Northern Ireland									0		0		0		1		0		0		0		0	
UK									1		6		2		12		4		5		2		3	

ALL HEART and HEART/LUNG TRANSPLANTS

UK	182	200	201	210	187	179	163	182
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Notes: # patients whose postcodes were unknown, or resided in the Isle of Man or Republic of Ireland. Excludes lung transplant.

Citation: BHF (2023) Analysis of NHSBT data

Source: Organ Donation and Transplantation. Quarterly and annual activity reports. NHS Blood & 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 2020/21

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Country	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
	<i>rate</i>	<i>rate</i>	<i>rate</i>	<i>rate</i>	<i>rate</i>	<i>rate</i>	<i>rate</i>	<i>rate</i>	<i>rate</i>	<i>rate</i>	<i>rate</i>
England	528	524	559	594	592	555	555	551	552	558	437
Wales	-	-	565	560	596	523	456	464	500	500	403
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) for 2015/16 onwards. Pacemaker data for Scotland are known to be incomplete and are therefore not shown.

Citation: BHF (2023) Analysis of NICOR/EHRA data

Source: Figures for England, Wales and Northern Ireland from National Audit of Cardiac Rhythm Management. [accessed Feb 2023]

<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 (OHCA) overall survival rates, by Ambulance Service, England 2011-12 to 2021-22; April 2011 to Dec 2021

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OVERALL SURVIVAL RATES (ALL RESUSCITATION ATTEMPTS)

Ambulance Service	Code	Number of resuscitation attempts by Financial Year											Number of resuscitation attempts by Calendar Year										
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Isle of Wight NHS Trust	R1F	115	100	132	127	139	111	127	124	123	109	136	77	110	121	126	142	110	133	126	124	112	123
London Ambulance Service NHS Trust	RRU	4,119	4,408	4,239	4,597	4,317	4,357	4,292	3,876	4,242	4,770	4,190	3,053	4,268	4,341	4,429	4,373	4,348	4,310	4,045	4,070	4,571	4,505
North East Ambulance Service NHS Foundation Trust	RX6	1,340	1,645	1,611	1,550	1,720	1,882	2,071	1,837	1,913	2,093	2,183	974	1,603	1,625	1,488	1,717	1,794	2,007	1,904	1,951	2,037	2,193
North West Ambulance Service NHS Trust	RX7	2,137	3,414	3,502	3,453	3,371	3,734	3,924	3,515	2,950	3,032	3,621	1,556	3,024	3,660	3,523	3,151	3,612	3,921	3,652	3,153	2,980	3,407
Yorkshire Ambulance Service NHS Trust	RX8	2,730	3,017	2,838	2,742	2,676	3,079	2,940	3,214	2,452	3,017	3,340	1,970	2,973	2,908	2,719	2,685	2,965	2,968	3,201	2,643	2,770	3,421
East Midlands Ambulance Service NHS Trust	RX9	1,487	2,935	2,595	2,608	2,338	2,459	2,227	2,484	2,800	2,959	2,997	689	2,989	2,674	2,515	2,397	2,466	2,307	2,324	2,864	2,847	3,052
West Midlands Ambulance Service NHS Foundation Trust	RYA	2,282	2,909	3,861	4,100	4,046	3,794	3,777	3,503	3,579	3,744	3,561	1,680	2,862	3,470	4,064	4,047	3,850	3,663	3,739	3,485	3,742	3,599
East of England Ambulance Service NHS Trust	RYC	3,161	3,059	3,073	3,346	3,127	3,468	3,562	3,385	3,594	3,538	3,593	2,324	3,132	2,970	3,234	3,274	3,280	3,579	3,458	3,569	3,516	3,640
South East Coast Ambulance Service NHS Foundation Trust	RYD	2,270	2,551	2,691	2,728	2,802	3,021	3,023	2,663	2,589	2,633	2,749	1,513	2,566	2,721	2,690	2,752	2,995	2,980	2,870	2,550	2,633	2,738
South Central Ambulance Service NHS Foundation Trust	RYE	1,353	1,031	1,236	1,433	1,392	1,244	1,436	1,962	2,155	2,405	2,418	1,044	1,103	1,065	1,471	1,450	1,224	1,354	1,816	2,124	2,348	2,392
South Western Ambulance Service NHS Foundation Trust	RYF	3,142	3,715	3,750	3,722	3,444	3,680	3,910	3,634	3,592	3,095	3,526	2,242	3,572	3,821	3,660	3,474	3,757	3,750	3,718	3,636	3,285	3,417
England		24,136	28,784	29,528	30,406	29,372	30,829	31,289	30,197	29,989	31,395	32,314	17,122	28,202	29,376	29,919	29,462	30,401	30,972	30,853	30,169	30,841	32,487

Ambulance Service	Code	Number discharged from hospital alive by Financial Year (30-day survival from Jan 2021)											Number discharged from hospital alive by Calendar Year (30-day survival from Jan 2021)										
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Isle of Wight NHS Trust	R1F	5	8	9	7	15	12	14	13	13	9	13	4	4	12	9	10	13	13	14	13	12	11
London Ambulance Service NHS Trust	RRU	381	390	436	416	388	415	402	419	397	340	395	294	369	420	426	413	400	401	424	410	331	385
North East Ambulance Service NHS Foundation Trust	RX6	108	101	110	74	102	134	182	190	127	127	212	80	113	106	64	112	119	166	194	151	106	205
North West Ambulance Service NHS Trust	RX7	174	256	309	321	311	349	382	308	249	231	281	138	220	310	324	302	337	388	320	276	207	278
Yorkshire Ambulance Service NHS Trust	RX8	167	238	291	292	248	310	301	329	234	263	264	134	221	270	286	259	290	313	327	249	251	262
East Midlands Ambulance Service NHS Trust	RX9	95	203	128	129	130	149	156	196	218	184	201	35	212	148	128	138	127	170	181	208	176	217
West Midlands Ambulance Service NHS Foundation Trust	RYA	195	217	253	340	348	339	343	402	399	306	296	152	209	243	316	370	316	343	392	402	333	286
East of England Ambulance Service NHS Trust	RYC	155	192	200	218	196	293	310	363	302	278	255	116	176	196	226	203	248	316	348	332	274	280
South East Coast Ambulance Service NHS Foundation Trust	RYD	129	153	198	233	213	248	209	223	229	218	299	86	153	198	220	230	237	210	214	223	226	281
South Central Ambulance Service NHS Foundation Trust	RYE	76	162	240	240	189	148	212	262	223	204	218	41	154	220	242	211	152	191	263	230	204	208
South Western Ambulance Service NHS Foundation Trust	RYF	216	334	386	360	307	305	340	370	390	372	358	150	321	354	384	310	317	332	357	381	377	367
England		1,701	2,254	2,560	2,630	2,447	2,702	2,851	3,075	2,781	2,532	2,792	1,230	2,152	2,477	2,625	2,558	2,556	2,843	3,034	2,875	2,497	2,780

Ambulance Service	Code	Discharged from hospital alive % by Financial Year (30-day survival from Jan 2021)											Discharged from hospital alive % by Calendar Year (30-day survival from Jan 2021)										
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Isle of Wight NHS Trust	R1F	4.3	8.0	6.8	5.5	10.8	10.8	11.0	10.5	10.6	8.3	9.6	5.2	3.6	9.9	7.1	7.0	11.8	9.8	11.1	10.5	10.7	8.9
London Ambulance Service NHS Trust	RRU	9.2	8.8	10.3	9.0	9.0	9.5	9.4	10.8	9.4	7.1	9.4	9.6	8.6	9.7	9.6	9.4	9.2	9.3	10.5	10.1	7.2	8.5
North East Ambulance Service NHS Foundation Trust	RX6	8.1	6.1	6.8	4.8	5.9	7.1	8.8	10.3	6.6	6.1	9.7	8.2	7.0	6.5	4.3	6.5	6.6	8.3	10.2	7.7	5.2	9.3
North West Ambulance Service NHS Trust	RX7	8.1	7.5	8.8	9.3	9.2	9.3	9.7	8.8	8.4	7.6	7.8	8.9	7.3	8.5	9.2	9.6	9.3	9.9	8.8	8.8	6.9	8.2
Yorkshire Ambulance Service NHS Trust	RX8	6.1	7.9	10.3	10.6	9.3	10.1	10.2	10.2	9.5	8.7	7.9	6.8	7.4	9.3	10.5	9.6	9.8	10.5	10.2	9.4	9.1	7.7
East Midlands Ambulance Service NHS Trust	RX9	6.4	6.9	4.9	4.9	5.6	6.1	7.0	7.9	7.8	6.2	6.7	5.1	7.1	5.5	5.1	5.8	5.2	7.4	7.8	7.3	6.2	7.1
West Midlands Ambulance Service NHS Foundation Trust	RYA	8.5	7.5	6.6	8.3	8.6	8.9	9.1	11.5	11.1	8.2	8.3	9.0	7.3	7.0	7.8	9.1	8.2	9.4	10.5	11.5	8.9	7.9
East of England Ambulance Service NHS Trust	RYC	4.9	6.3	6.5	6.5	6.3	8.4	8.7	10.7	8.4	7.9	7.1	5.0	5.6	6.6	7.0	6.2	7.6	8.8	10.1	9.3	7.8	7.7
South East Coast Ambulance Service NHS Foundation Trust	RYD	5.7	6.0	7.4	8.5	7.6	8.2	6.9	8.4	8.8	8.3	10.9	5.7	6.0	7.3	8.2	8.4	7.9	7.0	7.5	8.7	8.6	10.3
South Central Ambulance Service NHS Foundation Trust	RYE	5.6	15.7	19.4	16.7	13.6	11.9	14.8	13.4	10.3	8.5	9.0	3.9	14.0	20.7	16.5	14.6	12.4	14.1	14.5	10.8	8.7	8.7
South Western Ambulance Service NHS Foundation Trust	RYF	6.9	9.0	10.3	9.7	8.9	8.3	8.7	10.2	10.9	12.0	10.2	6.7	9.0	9.3	10.5	8.9	8.4	8.9	9.6	10.5	11.5	10.7
England		7.0	7.8	8.7	8.6	8.3	8.8	9.1	10.2	9.3	8.1	8.6	7.2	7.6	8.4	8.8	8.7	8.4	9.2	9.8	9.5	8.1	8.6

Notes: Data for South Western Ambulance Service includes Great Western Ambulance Service up to January 2013, when they merged.
Survival to discharge then 30-day survival from Jan 2021 NB statistics for Wales and Northern Ireland are not routinely published

Citation: BHF (2023) Analysis of NHS/Warwick OHCA data

Source: NHS England (2023) Ambulance Quality Indicators; Out of Hospital Cardiac Arrest Outcome study, University of Warwick <https://www.england.nhs.uk/statistics/statistical-work-areas/ambulance-quality-indicators/> [AmbCO series; accessed Feb 2023; recent data subject to revision]

Table 3.13 Out-of-hospital cardiac arrest (OHCA) Utstein survival rates, by Ambulance Service, England 2011-12 to 2021-22; April 2011 to Dec 2021

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UTSTEIN COHORT ONLY

Ambulance Service	Code	Number of resuscitation attempts by Financial Year											Number of resuscitation attempts by Calendar Year										
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Isle of Wight NHS Trust	R1F	24	10	28	27	30	23	27	19	20	9	13	16	15	23	30	25	28	22	24	20	12	8
London Ambulance Service NHS Trust	RRU	536	553	578	518	542	583	571	532	600	526	525	399	535	579	521	556	543	579	551	592	547	537
North East Ambulance Service NHS Foundation Trust	RX6	318	199	133	166	141	219	331	227	246	291	312	230	263	123	146	161	188	303	252	229	302	303
North West Ambulance Service NHS Trust	RX7	252	423	417	395	414	464	551	507	476	447	590	193	362	447	383	394	448	554	517	499	436	532
Yorkshire Ambulance Service NHS Trust	RX8	332	446	382	301	295	510	531	380	337	407	484	236	428	397	316	328	423	526	434	335	385	486
East Midlands Ambulance Service NHS Trust	RX9	197	482	308	277	281	338	325	343	377	345	409	83	475	366	271	267	309	373	319	374	354	395
West Midlands Ambulance Service NHS Foundation Trust	RYA	285	315	414	485	489	432	414	472	546	530	536	210	335	379	436	519	434	407	456	516	566	527
East of England Ambulance Service NHS Trust	RYC	365	388	322	310	313	376	410	415	521	457	533	281	384	317	309	323	349	419	394	527	460	518
South East Coast Ambulance Service NHS Foundation Trust	RYD	219	314	300	376	392	370	392	394	396	441	489	139	313	313	337	380	397	389	394	376	453	464
South Central Ambulance Service NHS Foundation Trust	RYE	176	114	160	399	336	359	422	266	297	327	302	99	169	125	355	356	347	394	300	295	341	287
South Western Ambulance Service NHS Foundation Trust	RYF	482	540	568	567	498	528	630	568	607	505	594	353	525	560	585	512	511	587	581	634	519	555
England		3,186	3,784	3,610	3,821	3,731	4,202	4,604	4,123	4,423	4,285	4,787	2,239	3,804	3,629	3,689	3,821	3,977	4,553	4,222	4,397	4,375	4,612

Ambulance Service	Code	Number discharged from hospital alive by Financial Year (30-day survival from Jan 2021)											Number discharged from hospital alive by Calendar Year (30-day survival from Jan 2021)										
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Isle of Wight NHS Trust	R1F	4	5	6	6	13	7	9	8	5	1	2	3	4	6	8	9	9	6	10	6	3	0
London Ambulance Service NHS Trust	RRU	167	158	187	163	171	172	182	194	180	146	137	123	158	177	168	187	160	179	188	191	148	146
North East Ambulance Service NHS Foundation Trust	RX6	82	56	43	44	47	75	116	82	58	90	108	64	66	40	36	56	66	104	89	64	84	106
North West Ambulance Service NHS Trust	RX7	54	96	99	90	103	122	140	140	129	106	146	45	73	111	84	100	118	138	140	144	97	140
Yorkshire Ambulance Service NHS Trust	RX8	69	121	124	123	111	188	152	111	117	97	102	49	120	109	120	131	149	171	126	111	103	100
East Midlands Ambulance Service NHS Trust	RX9	40	114	55	43	54	72	77	88	107	71	84	20	101	81	39	55	60	88	82	98	83	80
West Midlands Ambulance Service NHS Foundation Trust	RYA	51	46	84	100	120	114	126	156	169	118	132	40	48	78	94	119	107	122	150	166	137	122
East of England Ambulance Service NHS Trust	RYC	87	97	63	64	74	118	117	162	153	140	123	70	90	71	55	81	96	127	148	165	138	136
South East Coast Ambulance Service NHS Foundation Trust	RYD	49	52	64	98	83	93	100	100	107	100	141	34	54	64	87	88	95	98	94	103	101	132
South Central Ambulance Service NHS Foundation Trust	RYE	18	26	60	118	89	82	133	87	89	67	81	10	27	42	115	100	79	121	93	95	72	72
South Western Ambulance Service NHS Foundation Trust	RYF	82	139	166	157	138	126	145	141	179	142	152	63	121	149	177	140	126	138	138	180	144	149
England		703	910	951	1,006	1,003	1,169	1,297	1,269	1,293	1,078	1,208	521	862	928	983	1,066	1,065	1,292	1,258	1,323	1,110	1,183

Ambulance Service	Code	Discharged from hospital alive % by Financial Year (30-day survival from Jan 2021)											Discharged from hospital alive % by Calendar Year (30-day survival from Jan 2021)										
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Isle of Wight NHS Trust	R1F	16.7	50.0	21.4	22.2	43.3	30.4	33.3	42.1	25.0	11.1	15.4	18.8	26.7	26.1	26.7	36.0	32.1	27.3	41.7	30.0	25.0	0.0
London Ambulance Service NHS Trust	RRU	31.2	28.6	32.4	31.5	31.5	29.5	31.9	36.5	30.0	27.8	26.1	30.8	29.5	30.6	32.2	33.6	29.5	30.9	34.1	32.3	27.1	27.2
North East Ambulance Service NHS Foundation Trust	RX6	25.8	28.1	32.3	26.5	33.3	34.2	35.0	36.1	23.6	30.9	34.6	27.8	25.1	32.5	24.7	34.8	35.1	34.3	35.3	27.9	27.8	35.0
North West Ambulance Service NHS Trust	RX7	21.4	22.7	23.7	22.8	24.9	26.3	25.4	27.6	27.1	23.7	24.7	23.3	20.2	24.8	21.9	25.4	26.3	24.9	27.1	28.9	22.2	26.3
Yorkshire Ambulance Service NHS Trust	RX8	20.8	27.1	32.5	40.9	37.6	36.9	28.6	29.2	34.7	23.8	21.1	20.8	28.0	27.5	38.0	39.9	35.2	32.5	29.0	33.1	26.8	20.6
East Midlands Ambulance Service NHS Trust	RX9	20.3	23.7	17.9	15.5	19.2	21.3	23.7	25.7	28.4	20.6	20.5	24.1	21.3	22.1	14.4	20.6	19.4	23.6	25.7	26.2	23.4	20.3
West Midlands Ambulance Service NHS Foundation Trust	RYA	17.9	14.6	20.3	20.6	24.5	26.4	30.4	33.1	31.0	22.3	24.6	19.0	14.3	20.6	21.6	22.9	24.7	30.0	32.9	32.2	24.2	23.1
East of England Ambulance Service NHS Trust	RYC	23.8	25.0	19.6	20.6	23.6	31.4	28.5	39.0	29.4	30.6	23.1	24.9	23.4	22.4	17.8	25.1	27.5	30.3	37.6	31.3	30.0	26.3
South East Coast Ambulance Service NHS Foundation Trust	RYD	22.4	16.6	21.3	26.1	21.2	25.1	25.5	25.4	27.0	22.7	28.8	24.5	17.3	20.4	25.8	23.2	23.9	25.2	23.9	27.4	22.3	28.4
South Central Ambulance Service NHS Foundation Trust	RYE	10.2	22.8	37.5	29.6	26.5	22.8	31.5	32.7	30.0	20.5	26.8	10.1	16.0	33.6	32.4	28.1	22.8	30.7	31.0	32.2	21.1	25.1
South Western Ambulance Service NHS Foundation Trust	RYF	17.0	25.7	29.2	27.7	27.7	23.9	23.0	24.8	29.5	28.1	25.6	17.8	23.0	26.6	30.3	27.3	24.7	23.5	23.8	28.4	27.7	26.8
England		22.1	24.0	26.3	26.3	26.9	27.8	28.2	30.8	29.2	25.2	25.2	23.3	22.7	25.6	26.6	27.9	26.8	28.4	29.8	30.1	25.4	25.7

Notes: Data for South Western Ambulance Service includes Great Western Ambulance Service up to January 2013, when they merged.
Utstein: patients who had resuscitation commenced/continued by ambulance service; presumed cardiac-caused OHCA, bystander witnessed; initial rhythm was ventricular fibrillation (VF) or ventricular tachycardia (VT)
Survival to discharge then 30-day survival from Jan 2021 NB statistics for Wales and Northern Ireland are not routinely published

Citation: BHF (2023) Analysis of NHS/Warwick OHCA data

Source: NHS England (2023) Ambulance Quality Indicators; Out of Hospital Cardiac Arrest Outcome study, University of Warwick

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

[AmbCO series; accessed Feb 2023; recent data subject to revision]

Table 3.14 Out-of-hospital cardiac arrest (OHCA) survival rates, Scotland 2011-12 to 2021-22

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Ambulance Service	Financial Year										
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Number of resuscitation attempts	2,632	2,992	2,982	3,258	3,136	3,398	3,321	2,860	2,917	2,991	3,138
Number of survivors (at 30 days)	188	227	225	253	238	289	285	339	309	225	303
Number 30-day survivors per million population	35	43	42	47	44	53	53	62	57	41	56
Proportion alive at 30 days %	7.1	7.6	7.5	7.8	7.6	8.5	8.6	11.9	10.6	7.5	9.7

Notes: This series replaces the Scottish Government's linkage project results which appeared in previous compendia
NB statistics for Wales and Northern Ireland are not routinely published

Citation: BHF (2023) Analysis of Scottish OHCA data

Source: Scottish Ambulance Service (2022) Scotland's Out-of-Hospital Cardiac Arrest Report 2019-22
<https://www.scottishambulance.com/publications/Out-of-Hospital-Cardiac-Arrest-Annual-Report/>



bhf.org.uk/statistics

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NB the England table from previous editions has been archived, as the commissioning model it reflected has now been replaced

Heart and Circulatory Disease Statistics 2023 - 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 and internationally.

ECONOMIC & HEALTHCARE COSTS, UK

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

WALES

4.2 NHS expenditure on CVD by Health Board, Wales - 2019/20 & 2020/21

NORTHERN IRELAND

4.3 NHS expenditure on CVD by Health and Social Care Trust, Northern Ireland - 2014/15

SCOTLAND

4.4 NHS expenditure on CVD by care setting and condition, Scotland - 2011/12

EUROPE

4.5 Healthcare costs of heart and circulatory diseases (CVD), coronary heart disease and stroke by EU countries - 2015

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), and stroke pose other costs to society. These include the costs of treating those suffering from CVD, CHD, and stroke, but also 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)							€	Non-health care costs - CVD, CHD and Stroke, UK, 2015 (€ thousands)			
	Primary care	Outpatient care	A&E	Inpatient care	Medications	Total health care	per capita		Production losses due to mortality €	Production losses due to morbidity €	Informal care €
CVD	1,638,492	1,073,695	398,661	6,505,414	2,732,144	12,348,406	190	CVD	6,203,014	2,548,365	5,566,934
CHD	149,694	299,002	102,413	1,236,089	379,036	2,166,234	33	CHD	3,364,345	958,817	2,566,012
Stroke	51,448	299,002	68,554	2,091,942	141,429	2,652,375	41	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

NB the latest edition does not update CVD costs

Table 4.2 NHS expenditure on CVD by Health Board, Wales 2019/20 & 2020/21[Back to Table of Contents](#)

2019/20 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
Aneurin Bevan LHB	28.5	23.9	104.5	156.9	16.9	14.2	62.1	93.2	1.3	1.1	4.6	7.0
Betsi Cadwaladr UHB	32.3	35.3	113.4	181.0	22.6	24.7	79.3	126.6	1.4	1.5	4.8	7.7
Cardiff & Vale UHB	27.0	20.8	86.7	134.5	13.5	10.4	43.4	67.3	1.3	1.0	4.2	6.5
Cwm Taf Morgannwg UHB	35.2	29.3	115.0	179.4	15.8	13.1	51.6	80.5	1.5	1.2	4.7	7.4
Hywel Dda UHB	38.9	33.0	128.9	200.8	15.1	12.8	49.9	77.8	1.6	1.4	5.3	8.3
Powys Teaching HB	41.7	63.4	139.3	244.4	5.5	8.4	18.4	32.4	1.7	2.6	5.7	10.0
Swansea Bay UHB	32.9	35.7	124.4	193.1	12.8	13.9	48.6	75.4	1.4	1.5	5.3	8.2
Wales	32.4	30.9	112.1	175.4	102.2	97.5	353.3	553.1	1.4	1.3	4.9	7.6

2020/21 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
Aneurin Bevan LHB	33.9	34.7	125.1	193.7	20.3	20.8	74.8	115.9	1.3	1.4	4.9	7.6
Betsi Cadwaladr UHB	35.3	34.8	120.2	190.4	24.9	24.5	84.6	133.9	1.3	1.3	4.6	7.2
Cardiff & Vale UHB	29.5	30.0	92.2	151.7	14.9	15.1	46.5	76.5	1.2	1.2	3.8	6.3
Cwm Taf Morgannwg UHB	37.3	38.1	112.7	188.0	16.8	17.1	50.7	84.6	1.4	1.4	4.1	6.9
Hywel Dda UHB	42.6	36.0	134.9	213.6	16.6	14.0	52.6	83.2	1.5	1.3	4.9	7.7
Powys Teaching HB	45.3	103.1	165.5	313.9	6.0	13.7	22.0	41.8	1.7	3.8	6.1	11.5
Swansea Bay UHB	45.0	44.4	131.1	220.5	17.6	17.3	51.3	86.2	1.6	1.6	4.8	8.0
Wales	36.9	38.7	120.7	196.3	117.0	122.6	382.4	622.0	1.4	1.5	4.6	7.5

Notes: 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.

Citation: BHF (2023) Analysis of PHW data

Source: Public Health Wales, NHS expenditure by programme budget category [accessed Feb 2023]

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

Table 4.3 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.

[updates unavailable]

Table 4.4 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				Hospital Sector				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	Total costs	Acute Services	Geriatric Long Stay	A&E and outpatient services	Total Hospital Sector	Pharmaceutical Services	General Medical Services	Total Family Health Services	Total costs
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 no longer collects 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

[updates unavailable]

Table 4.5 Healthcare costs of heart and circulatory diseases (CVD), coronary heart disease and stroke by EU countries, 2015

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original order	Healthcare cost by country (£k)																			CVD/ Total	cost per person/capita (£)		
	Coronary Heart Disease						Stroke						Heart & Circulatory Diseases (CVD)								Coronary Heart Disease	Stroke	Heart & Circulatory Diseases (CVD)
	Primary Care £k	A&E £k	Inpatient Care £k	Outpatient Care £k	Medications £k	ALL £k	Primary Care £k	A&E £k	Inpatient Care £k	Outpatient Care £k	Medications £k	ALL £k	Primary Care £k	A&E £k	Inpatient Care £k	Outpatient Care £k	Medications £k	ALL £k	%		£	£	£
Austria	9,797	18,456	267,863	9,822	64,123	370,061	6,116	11,522	320,862	6,132	23,926	368,558	40,247	75,822	1,212,797	40,351	462,209	1,831,427	7%	43	43	213	
Belgium	17,748	3,127	186,508	11,963	70,675	290,024	7,461	1,315	245,695	5,029	26,371	285,871	70,454	12,415	1,118,295	47,491	509,440	1,758,096	6%	26	25	157	
Bulgaria	4,691	1,323	14,315	5,566	15,598	41,493	3,696	1,042	19,614	4,385	5,821	34,557	20,381	5,748	86,721	24,184	112,434	249,467	9%	6	5	35	
Croatia	4,367	4,099	12,332	2,338	10,344	33,480	3,078	4,099	14,105	1,648	3,860	26,790	16,456	21,911	53,901	8,811	74,564	175,642	8%	8	7	41	
Cyprus	2,420	1,605	1,608	7,323	2,555	15,512	919	609	860	2,780	953	6,122	7,456	4,947	4,949	22,561	18,417	58,330	7%	18	7	69	
Czechia	9,484	4,851	77,104	23,093	39,268	153,801	8,928	4,567	215,692	21,738	14,652	265,577	49,723	25,433	595,911	121,065	283,050	1,075,182	12%	15	25	102	
Denmark	7,445	3,050	96,619	7,714	15,577	130,406	3,872	2,273	82,591	4,012	5,813	98,560	31,395	13,989	508,027	32,531	112,285	698,226	3%	23	17	123	
Estonia	2,316	953	11,276	4,651	3,173	22,369	2,361	971	21,624	4,741	1,184	30,881	12,017	4,943	65,145	24,132	22,873	129,109	14%	17	23	98	
Finland	9,739	7,692	156,065	27,616	19,220	220,332	7,862	6,210	480,078	22,293	7,172	523,615	45,680	36,085	1,101,878	129,540	138,542	1,451,724	10%	40	96	265	
France	42,104	21,508	1,045,895	66,401	310,831	1,486,739	34,264	10,504	1,220,038	54,037	113,947	1,432,790	469,823	98,196	6,948,677	740,938	2,775,842	11,033,475	6%	23	22	166	
Germany	297,386	20,084	2,207,028	437,475	506,025	3,467,999	468,489	12,194	2,728,597	689,178	204,845	4,103,304	2,334,836	83,665	10,866,360	3,434,696	3,833,807	20,553,363	8%	43	51	253	
Greece	4,710	11,153	152,959	9,729	89,241	267,793	2,596	6,147	211,216	5,362	33,299	258,619	15,658	37,077	685,984	32,342	643,263	1,414,324	13%	25	24	130	
Hungary	12,382	2,365	86,394	18,254	60,053	179,447	14,616	2,791	139,401	21,547	22,408	200,764	58,883	11,246	507,930	86,807	432,871	1,097,736	19%	18	20	111	
Ireland	5,909	5,888	62,763	6,316	33,726	114,602	2,025	2,018	85,652	2,165	12,584	104,444	21,526	21,449	313,100	23,008	243,104	622,188	3%	25	23	134	
Italy	129,457	114,469	869,470	423,654	442,579	1,979,630	113,250	100,140	1,571,427	370,618	165,140	2,320,574	597,977	528,748	5,132,049	1,956,913	3,190,173	11,405,862	11%	33	38	187	
Latvia	4,386	458	7,846	1,531	6,209	20,431	2,699	458	8,879	942	2,317	15,296	13,373	2,271	29,612	4,670	44,756	94,682	10%	10	8	48	
Lithuania	6,059	480	18,930	7,151	6,303	38,924	4,063	322	18,656	4,795	2,352	30,187	22,050	1,745	69,173	26,025	45,436	164,428	10%	13	10	57	
Luxembourg	959	153	11,169	3,252	4,121	19,655	353	56	14,317	1,195	1,538	17,459	3,848	614	70,313	13,050	29,706	117,531	5%	35	31	209	
Malta	320	163	4,492	351	1,351	6,677	139	70	5,492	152	504	6,358	1,316	669	21,420	1,442	9,738	34,586	6%	15	15	81	
Netherlands	95,180	4,262	582,475	184,059	106,073	972,048	58,907	2,637	399,699	113,915	37,490	612,648	382,854	17,141	2,257,048	740,362	615,962	4,013,367	7%	57	36	237	
Poland	63,051	7,253	198,489	192,540	145,656	606,988	29,435	3,386	230,533	89,888	54,349	407,591	249,412	28,691	1,070,773	761,636	1,049,906	3,160,418	16%	16	11	84	
Portugal	21,341	10,648	26,866	32,022	55,817	146,695	15,830	7,899	47,642	23,753	20,827	115,951	92,676	46,242	172,433	139,061	402,339	852,751	7%	14	11	82	
Romania	4,212	820	40,710	14,222	59,249	119,214	4,930	959	73,798	16,647	22,107	118,442	30,208	5,879	359,739	101,996	427,075	924,897	15%	6	6	46	
Slovakia	14,435	1,842	33,854	35,086	15,594	100,810	9,722	1,241	39,352	23,631	5,818	79,765	58,092	7,414	158,019	141,199	112,402	477,127	12%	19	15	88	
Slovenia	5,072	1,089	13,117	1,815	8,180	29,273	2,758	593	18,477	988	3,052	25,867	24,293	5,218	82,306	8,697	58,960	179,473	8%	15	12	87	
Spain	184,045	60,212	361,334	144,250	351,562	1,101,404	137,929	45,125	481,536	108,105	131,179	903,873	957,262	313,179	2,156,955	750,279	2,534,112	6,711,788	9%	24	20	144	
Sweden	8,153	21,235	123,847	18,058	25,897	197,190	4,028	14,971	206,621	8,920	9,663	244,203	64,454	89,384	725,295	142,757	186,669	1,208,558	3%	20	25	124	
United Kingdom	108,695	74,363	897,539	217,109	275,223	1,572,929	37,357	49,778	1,518,984	217,109	102,693	1,925,921	1,189,729	289,473	4,723,659	779,623	1,983,843	8,966,326	5%	24	30	138	
Total EU28 (2015)	511,523	182,521	2,312,822	1,913,364	2,744,226	13,705,925	987,680	293,896	10,421,440	1,825,706	1,035,863	14,564,586	6,882,077	1,789,592	41,098,470	10,336,166	20,353,777	80,460,083	8%	27	28	159	

Notes:

Published euro values converted at average exchange rate in 2015 (GBP = 1.37 euros) - sub-totals may not add up due to rounding

European Union member states as of 2015; the United Kingdom is no longer a member state

Source:

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

<https://ehnheart.org/cvd-statistics/cvd-statistics-2017.html>

NB the latest edition does not update CVD costs



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Heart and Circulatory Disease Statistics 2023 - Chapter 5 - Risk Factors

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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, 2009, 2014, and 2019

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Reset to Published Order	RISK FACTOR (% attributable)	estimated burden - UK DEATHS and attributable totals (k)											estimated burden - UK DALYs									
		Heart and circulatory diseases (CVD)			2019 deaths (k)	Coronary heart disease (CHD)			2019 deaths (k)	Stroke (CBVD)			2019 deaths (k)	Heart and circulatory diseases (CVD)			Coronary heart disease (CHD)			Stroke (CBVD)		
		2009	2014	2019		2009	2014	2019		2009	2014	2019		2009	2014	2019	2009	2014	2019	2009	2014	2019
	All modifiable risk factors	81.0%	78.9%	79.2%		94.0%	93.5%	93.6%		80.9%	79.3%	79.8%		82.2%	80.4%	80.5%	95.2%	94.8%	94.8%	83.9%	82.7%	82.9%
	High systolic blood pressure (hypertension)	45.4%	43.6%	44.0%	82.8	49.7%	47.8%	48.2%	45.0	44.3%	42.6%	43.0%	21.8	47.7%	46.0%	46.2%	52.1%	50.4%	50.6%	48.1%	46.4%	46.7%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	34.8%	33.8%	33.9%	63.7	56.4%	56.5%	56.6%	52.8	19.3%	19.4%	19.4%	9.8	36.1%	35.0%	35.0%	58.9%	59.1%	59.0%	22.1%	22.4%	22.3%
	High fasting plasma glucose (diabetes)	23.7%	25.2%	26.2%	49.2	31.9%	35.0%	36.2%	33.8	25.6%	27.8%	29.0%	14.7	22.1%	23.8%	25.0%	30.1%	33.6%	35.2%	25.7%	28.4%	29.8%
	High LDL (bad) cholesterol	27.0%	25.7%	25.5%	48.0	44.6%	44.2%	43.9%	41.0	14.5%	14.0%	13.8%	7.0	28.3%	26.9%	26.6%	49.1%	48.7%	48.1%	13.5%	13.1%	13.0%
	High body-mass index (obesity and excess weight)	16.4%	16.3%	16.6%	31.3	20.5%	20.5%	20.8%	19.4	14.1%	13.8%	14.2%	7.2	21.9%	22.1%	22.2%	26.0%	26.3%	26.4%	24.1%	24.2%	24.4%
	Tobacco (cigarette smoking, second-hand smoke)	18.8%	15.7%	15.2%	28.6	24.3%	20.9%	20.2%	18.9	15.1%	12.6%	12.1%	6.1	24.8%	21.7%	20.7%	32.3%	29.2%	28.0%	21.9%	19.2%	18.1%
	Impaired kidney function (renal failure)	8.0%	7.5%	7.5%	14.2	12.7%	12.5%	12.5%	11.7	4.8%	4.5%	4.5%	2.3	6.7%	6.4%	6.4%	10.6%	10.4%	10.4%	5.0%	4.7%	4.8%
	Non-optimal (low/high) temperature	7.8%	7.2%	7.3%	13.7	7.4%	6.7%	7.0%	6.5	13.9%	13.3%	13.5%	6.8	6.8%	6.2%	6.3%	7.1%	6.5%	6.7%	11.9%	11.3%	11.5%
	Low physical activity (inactivity, sedentary behaviour)	5.9%	5.8%	5.7%	10.8	8.6%	8.8%	8.7%	8.1	5.4%	5.3%	5.2%	2.6	4.8%	4.6%	4.6%	7.3%	7.4%	7.4%	4.2%	4.1%	4.0%
	Air pollution (particulate matter)	5.6%	4.1%	3.8%	7.1	7.2%	5.5%	5.1%	4.7	6.8%	5.2%	4.7%	2.4	6.6%	5.0%	4.5%	8.8%	6.9%	6.2%	8.5%	6.6%	6.0%
	Other environmental risks (e.g. lead exposure)	1.4%	1.3%	1.2%	2.2	1.6%	1.5%	1.3%	1.3	1.3%	1.2%	1.1%	0.6	1.3%	1.2%	1.0%	1.5%	1.3%	1.2%	1.3%	1.2%	1.1%
	Other risk factors/unknown	19.0%	21.1%	20.8%		6.0%	6.5%	6.4%		19.1%	20.7%	20.2%		17.8%	19.6%	19.5%	4.8%	5.2%	5.2%	16.1%	17.3%	17.1%

Notes

Annual attributable deaths rounded to thousands.

Non-modifiable risk factors (age, sex, 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

Citation:

BHF (2022) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2009, 2014 & 2019 Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

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

[accessed January 2022]

[no updates as of Feb 2023]

Table 5.2 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, England, 2019

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Reset to Published Order	RISK FACTOR (% attributable)	2019 estimated burden - England DEATHS			2019 attributable deaths (annual k)			2019 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)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All risk factors	78.5%	93.5%	79.3%				79.9%	94.7%	82.5%
	High systolic blood pressure (hypertension)	42.9%	47.1%	41.8%	65.7	35.6	16.9	45.3%	49.7%	45.6%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	33.7%	56.7%	19.6%	51.7	42.9	7.9	34.7%	59.1%	22.5%
	High fasting plasma glucose (diabetes)	26.4%	37.0%	29.4%	40.5	28.0	11.9	25.3%	36.2%	30.4%
	High LDL (bad) cholesterol	25.3%	44.0%	13.7%	38.8	33.2	5.6	26.3%	48.2%	12.8%
	High body-mass index (obesity and excess weight)	16.4%	20.5%	14.0%	25.1	15.5	5.6	21.9%	26.1%	24.2%
	Tobacco (cigarette smoking, second-hand smoke)	14.7%	19.6%	11.7%	22.5	14.8	4.7	20.1%	27.3%	17.6%
	Impaired kidney function (renal failure)	7.5%	12.5%	4.5%	11.4	9.4	1.8	6.3%	10.4%	4.6%
	Non-optimal (low/high) temperature	7.2%	7.0%	13.4%	11.0	5.3	5.4	6.2%	6.7%	11.5%
	Low physical activity (inactivity, sedentary behaviour)	5.3%	8.2%	4.8%	8.1	6.2	1.9	4.2%	7.0%	3.7%
	Air pollution (particulate matter)	4.0%	5.4%	5.1%	6.2	4.1	2.1	4.9%	6.8%	6.6%
	Other environmental risks (e.g. lead exposure)	1.0%	1.1%	0.9%	1.5	0.8	0.4	0.8%	1.0%	0.8%
	Other risk factors/unknown	21.5%	6.5%	20.7%				20.1%	5.3%	17.5%

Notes

Annual attributable deaths rounded to thousands.
Non-modifiable risk factors (age, sex, 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

Citation: BHF (2022) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.
Global Burden of Disease Study 2019 (GBD 2019) Results.
Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

<http://ghdx.healthdata.org/gbd-results-tool>
[accessed January 2022]
[no updates as of Feb 2023]

Table 5.3 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Scotland, 2019

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Reset to Published Order	RISK FACTOR (% attributable)	2019 estimated burden - Scotland DEATHS			2019 attributable deaths (annual k)			2019 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)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	83.1%	94.5%	82.2%				84.3%	95.5%	84.9%
	High systolic blood pressure (hypertension)	49.0%	52.7%	48.2%	9.5	5.2	2.8	50.2%	53.6%	50.5%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	34.7%	56.2%	18.0%	6.7	5.6	1.1	36.5%	59.1%	21.1%
	High fasting plasma glucose (diabetes)	28.3%	36.6%	30.0%	5.5	3.6	1.8	27.1%	34.9%	30.8%
	High LDL (bad) cholesterol	26.8%	43.6%	14.2%	5.2	4.3	0.8	28.3%	47.8%	13.9%
	High body-mass index (obesity and excess weight)	19.1%	23.6%	15.7%	3.7	2.3	0.9	25.2%	29.4%	25.8%
	Tobacco (cigarette smoking, second-hand smoke)	18.5%	24.1%	14.3%	3.6	2.4	0.8	24.5%	32.0%	20.7%
	Impaired kidney function (renal failure)	8.2%	12.7%	5.0%	1.6	1.3	0.3	7.1%	10.7%	5.4%
	Non-optimal (low/high) temperature	8.0%	6.9%	13.9%	1.5	0.7	0.8	6.9%	6.8%	11.2%
	Low physical activity (inactivity, sedentary behaviour)	5.9%	8.4%	5.3%	1.1	0.8	0.3	4.8%	7.1%	4.2%
	Air pollution (particulate matter)	2.1%	2.6%	2.4%	0.4	0.3	0.1	2.5%	3.2%	3.0%
	Other environmental risks (e.g. lead exposure)	2.0%	2.2%	1.9%	0.4	0.2	0.1	1.9%	2.1%	1.9%
	Other risk factors/unknown	16.9%	5.5%	17.8%				15.7%	4.5%	15.1%

Notes

Annual attributable deaths rounded to thousands.

Non-modifiable risk factors (age, sex, 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

Citation:

BHF (2022) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2019 (GBD 2019) Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

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

[accessed January 2022]

[no updates as of Feb 2023]

Table 5.4 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Wales, 2019

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Reset to Published Order	RISK FACTOR (% attributable)	2019 estimated burden - Wales DEATHS			2019 attributable deaths (annual)			2019 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)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	80.4%	93.8%	80.9%				81.9%	94.9%	83.5%
	High systolic blood pressure (hypertension)	47.8%	52.1%	47.3%	5,000	2,800	1,300	50.0%	54.3%	50.5%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	33.6%	55.2%	18.9%	3,500	2,900	530	35.5%	58.4%	22.2%
	High LDL (bad) cholesterol	26.7%	45.2%	14.5%	2,800	2,400	410	28.0%	49.1%	13.7%
	High fasting plasma glucose (diabetes)	19.8%	27.0%	22.0%	2,100	1,400	620	18.3%	24.8%	21.9%
	Tobacco (cigarette smoking, second-hand smoke)	16.3%	21.6%	12.7%	1,700	1,100	360	22.2%	29.6%	19.0%
	High body-mass index (obesity and excess weight)	15.6%	19.6%	13.4%	1,600	1,000	380	20.9%	24.8%	22.9%
	Low physical activity (inactivity, sedentary behaviour)	9.9%	14.6%	9.5%	1,000	780	270	8.0%	12.3%	7.3%
	Impaired kidney function (renal failure)	7.7%	12.5%	4.8%	810	660	130	6.7%	10.6%	5.1%
	Non-optimal (low/high) temperature	7.3%	6.8%	13.7%	770	360	390	6.4%	6.6%	11.4%
	Air pollution (particulate matter)	3.5%	4.6%	4.3%	370	240	120	4.2%	5.6%	5.4%
	Other environmental risks (e.g. lead exposure)	2.4%	2.8%	2.4%	260	150	70	2.3%	2.6%	2.3%
	Other risk factors/unknown	19.6%	6.2%	19.1%				18.1%	5.1%	16.5%

Notes

Annual attributable deaths rounded to thousands.
Non-modifiable risk factors (age, sex, 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

Citation:

BHF (2022) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.
Global Burden of Disease Study 2019 (GBD 2019) Results.
Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

<http://ghdx.healthdata.org/gbd-results-tool>
[accessed January 2022]
[no updates as of Feb 2023]

Table 5.5 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Northern Ireland, 2019

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Reset to Published Order	RISK FACTOR (% attributable)	2019 estimated burden - NI DEATHS			2019 attributable deaths (annual)			2019 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)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	82.1%	94.0%	81.7%				83.2%	95.1%	84.2%
	High systolic blood pressure (hypertension)	50.8%	55.5%	49.6%	2,600	1,440	720	52.7%	57.5%	52.7%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	35.2%	55.6%	20.4%	1,800	1,450	300	36.3%	58.0%	22.9%
	High LDL (bad) cholesterol	24.7%	40.8%	12.3%	1,200	1,060	180	26.2%	45.4%	11.6%
	High fasting plasma glucose (diabetes)	23.6%	30.9%	25.3%	1,200	800	370	21.3%	28.2%	24.8%
	High body-mass index (obesity and excess weight)	17.2%	21.2%	14.5%	860	550	210	23.0%	27.0%	24.6%
	Tobacco (cigarette smoking, second-hand smoke)	15.5%	20.3%	12.0%	780	530	170	21.5%	28.3%	18.3%
	Low physical activity (inactivity, sedentary behaviour)	8.5%	12.1%	7.7%	430	320	110	6.8%	10.2%	5.8%
	Non-optimal (low/high) temperature	7.8%	6.9%	14.0%	390	180	200	6.7%	6.6%	12.0%
	Impaired kidney function (renal failure)	7.7%	12.1%	4.7%	390	310	70	6.6%	10.1%	4.9%
	Air pollution (particulate matter)	3.1%	4.0%	3.7%	160	100	50	3.7%	4.8%	4.7%
	Other environmental risks (e.g. lead exposure)	1.4%	1.5%	1.3%	70	40	20	1.2%	1.4%	1.2%
	Other risk factors/unknown	17.9%	6.0%	18.3%				16.8%	4.9%	15.8%

Notes

Annual attributable deaths rounded to thousands.
Non-modifiable risk factors (age, sex, 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

Citation: BHF (2022) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.
Global Burden of Disease Study 2019 (GBD 2019) Results.
Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

<http://ghdx.healthdata.org/gbd-results-tool>
[accessed January 2022]
[no updates as of Feb 2023]

Table 5.6 Prevalence of high blood pressure in adults by age and sex, England and Scotland, latest[Back to Table of Contents](#)

Age in years	Estimated prevalence						Estimated prevalence					
	England 2019						Scotland 2018/19					
	Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	*	*	*	*	*	*	2	6	0	0	7	6
25-34	8	290	6	250	7	540	8	30	5	19	5	49
35-44	13	480	9	330	11	810	9	30	12	42	12	72
45-54	29	1,060	22	830	25	1,900	33	120	18	70	29	190
55-64	48	1,680	33	1,200	40	2,900	49	180	42	170	45	350
65-74	58	1,560	51	1,500	54	3,100	62	180	58	180	59	360
75+	68	1,430	65	1,800	66	3,200	63	130	78	220	70	350
All Adults	30	6,500	25	5,900	28	12,400	31	670	29	690	31	1,370

Notes:

Data for England and Scotland includes those being treated or not treated for high blood pressure. NI/Wales surveys do not cover.

High Blood Pressure: Systolic BP at or greater than 140mmHg and Diastolic 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 Chapter 2b.

All population figures are health survey results applied to mid-2021 estimates published by age, sex and nation by the Office for National Statistics (2022).

* small base; published figures not used. Totals may not add up due to rounding.

2021 surveys (published 2022) did not feature updates of same series, as additional fieldwork is required.

Citation:

BHF (2023) Analysis of health survey data

Source:

NHS England (2020). Health Survey for England 2019, Adult Health Tables

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

The Scottish Government (2020). The Scottish Health Survey 2019

<https://www.gov.scot/collections/scottish-health-survey/>

Table 5.7 Prevalence of untreated high blood pressure in adults by age and sex, England and Scotland, latest available

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Age in years	England 2019						Scotland 2018/19					
	Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	*	*	1	33	2	*	2	6	*	*	1	6
25-34	6	240	5	190	6	430	8	30	4	15	6	45
35-44	10	360	6	240	10	600	8	27	10	35	9	62
45-54	18	670	12	470	11	1,150	22	80	15	56	19	130
55-64	22	750	13	480	18	1,250	35	130	23	90	28	220
65-74	20	540	19	560	18	1,100	23	65	27	80	25	145
75+	14	300	19	540	16	840	24	48	35	100	30	150
All Adults	14	2,860	11	2,500	12	5,400	18	380	16	380	17	760

Notes:

Hypertension diagnosed by nurse. Data weighted for non-response. NI/Wales surveys do not cover.

Hypertensive untreated: Systolic BP at or greater than 140mmHg and Diastolic BP at or greater than 90mmHg, not currently taking medication for blood pressure.

All population figures are health survey results applied to mid-2021 estimates published by age, sex and nation by the Office for National Statistics (2022).

* small base; published figures not used. Totals may not add up due to rounding.

2021 surveys (published 2022) did not feature updates of same series, as additional fieldwork is required.

Citation:

BHF (2023) Analysis of health survey data

Source:

Source: NHS England (2020). Health Survey for England 2019, Adult Health Tables.

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

The Scottish Government (2020). The Scottish Health Survey 2019.

<https://www.gov.scot/collections/scottish-health-survey/>

Table 5.8 Prevalence of diabetes in adults by age and sex, England and Scotland, latest available

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Age in years	England 2019						Scotland 2021					
	Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	1.0	30	0.3	10	0.3	40	-	*	0	*	0	*
25-34	1.3	50	0.8	30	0.6	80	*	*	2	8	1	8
35-44	3	120	3	100	2	210	4	14	2	7	3	21
45-54	9	340	4	140	8	480	5	18	3	11	4	29
55-64	13	450	9	330	10	760	11	40	7	28	9	68
65-74	21	550	12	340	15	890	14	40	9	28	11	68
75+	18	390	15	430	18	810	14	30	12	33	13	63
All Adults	9	1,900	6	1,370	7	3,300	6	140	5	115	6	260

Notes:

Excludes diabetes in pregnancy. England and Scotland asked if doctor-diagnosed.

All population figures are health survey results applied to mid-2021 estimates published by age, sex and nation by the Office for National Statistics (2022).

* small base; published figures not used. Totals may not add up due to rounding. England survey updates not yet published [Feb 2023].

Please note the Scottish 2021 survey did not include the pre-pandemic fieldwork, so comparisons with previous surveys should be made with caution.

Citation:

BHF (2023) Analysis of health survey data

Source:

NHS England (2020). Health Survey for England 2019, Adult Health Tables.

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

The Scottish Government (2022). The Scottish Health Survey 2021 supplementary tables [accessed February 2023]

<https://www.gov.scot/publications/scottish-health-survey-2021-supplementary-tables/>

Table 5.9 Prevalence of diagnosed diabetes by nation and region, United Kingdom, latest

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ONS Code	Nation/Region	Diabetes Register	
		Patients	Aged 17+ %
E12000004	East Midlands	324,550	7.7
E12000006	East of England	384,177	7.1
E12000007	London	585,595	6.8
E12000001	North East England	184,863	8.0
E12000002	North West England	482,260	7.5
E12000008	South East England	533,844	6.7
E12000009	South West England	346,542	7.0
E12000005	West Midlands	419,233	8.2
E12000003	Yorkshire and The Humber	364,337	7.6
E92000001	England	3,625,401	7.3
S92000003	Scotland	295,970	n/a
W92000004	Wales	204,326	7.8
N92000002	Northern Ireland	108,223	6.8
K02000001	United Kingdom	4,233,920	n/a

Notes:

These data show total numbers of people on GP patient registers in each area, and percentage of the patient list (not population)

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.

BHF analysis - pro rata adjustments have been made for Scotland where active practices did not file patient register numbers in the latest available year.

Citation:

BHF (2023) Analysis of UK GP patient register data

Source:

England - NHS England - Quality & Outcomes Framework (QOF) prevalence data 2021/22

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

Wales - StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2019/20 [no updates Feb 2023]

<https://statswales.gov.wales/Catalogue/Health-and-Social-Care/NHS-Primary-and-Community-Activity/GMS-Contract>

Scotland - Public Health Scotland. GP prevalence data 2018/19 [no updates Feb 2023]

<https://beta.isdscotland.org/find-publications-and-data/health-services/primary-care/general-practice-disease-prevalence-data-visualisation/>

Northern Ireland - Department of Health, Quality & Outcomes Framework (QOF) prevalence data 2021/22

<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 sex, England, 2019[Back to Table of Contents](#)

Age in years	England 2019					
	Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s
16-24	18	530	17	500	17	1,030
25-34	34	1,260	26	1,000	29	2,300
35-44	53	1,900	37	1,400	45	3,300
45-54	55	2,000	59	2,200	57	4,200
55-64	52	1,800	66	2,400	59	4,200
65-74	37	990	62	1,800	50	2,800
75+	19	400	49	1,350	35	1,750
All Adults	40	8,900	45	10,700	43	19,600

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-2021 estimates published by age, sex and nation by the Office for National Statistics (2022).

Scotland data not updated since 2010/11. England - additional fieldwork is required for post-pandemic updates [to follow].

Citation:

BHF (2023) Analysis of health survey data

Source:

NHS England (2020). Health Survey for England 2019, Adult Health Tables.

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

Table 5.11 Prevalence of overweight (including obese) in adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

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Age (years)	England 2021						Scotland 2021						Northern Ireland 2019/20						Age (years)	Wales 2021/22						UK estimate					
	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		
16-24	32	940	24	740	28	1,700	35	99	35	96	35	195	36	37	39	38	37	75													
25-34	61	2,400	56	2,100	59	4,500	63	240	61	230	62	470	66	78	59	72	63	150													
35-44	70	2,600	62	2,200	66	4,800	69	240	66	230	68	470	76	92	56	72	66	160													
45-54	82	3,100	65	2,400	73	5,500	72	250	67	250	70	500	82	100	70	90	76	190													
55-64	79	2,900	64	2,200	72	5,100	83	310	72	280	77	590	82	98	62	77	72	180	16-44	62	330	54	290	58	620						
65-74	76	2,200	71	1,900	73	4,100	82	230	68	210	75	440	84	73	72	65	78	140	45-64	75	300	62	260	68	560						
75+	73	2,000	65	1,400	69	3,400	79	160	69	200	73	360	69	45	58	50	63	95	65+	65	200	58	210	61	410						
All Adults	69	16,000	59	13,000	64	29,000	70	1,530	64	1,500	67	3,000	71	520	60	470	65	990	All Adults	67	830	58	760	62	1,590	69	19,000	59	16,000	64	35,000

Notes: Overweight = BMI 25 to less than 30kg/m². Obese = BMI 30kg/m² or more (includes morbidly obese). Not all data will have been validated or adjusted for self-reporting - for most of UK, historically BMI was nurse-measured.

All population figures are health survey results applied to mid-2021 estimates published by age, sex and nation by the Office for National Statistics (2022).

UK percentages are population-weighted averages based on data from all four nations, where available. Some totals may not add up due to rounding.

Citation: BHF (2023) Analysis of UK health survey data

Source: NHS England (2022). Health Survey for England 2021: data tables; corrected height and weight

<https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2021>

The Scottish Government (2022). The Scottish Health Survey 2021

<https://www.gov.scot/publications/scottish-health-survey-2021-supplementary-tables/>

Welsh Government (2022). National Survey for Wales - Population health: health-related lifestyle (adults), 2021-22

<https://statswales.gov.wales/Catalogue/National-Survey-for-Wales/Population-Health/Adult-Lifestyles/adultlifestyles-by-age-gender-from202021>

Northern Ireland Statistics and Research Agency (2020). Health Survey Northern Ireland 2019/20. [BMI updates not available Feb 2023]

<https://www.health-ni.gov.uk/publications/tables-health-survey-northern-ireland>

Table 5.12 Prevalence of obesity in adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

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Age (years)	England 2021						Scotland 2021						Northern Ireland 2019/20						Age (years)	Wales 2021/22						UK estimate						
	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			
16-24	5	160	10	310	8	470	10	28	11	30	10	58	12	12	15	15	14	27														
25-34	23	900	24	900	24	1,800	23	87	29	110	26	200	21	25	28	35	25	60														
35-44	26	980	28	1,000	27	2,000	31	105	36	125	34	230	30	36	24	31	27	67														
45-54	30	1,140	30	1,100	30	2,200	32	110	37	140	35	250	35	43	34	43	34	84														
55-64	33	1,180	31	1,100	32	2,300	38	140	33	130	36	270	32	38	28	35	30	73	16-44	21	110	26	140	23	250							
65-74	31	910	32	850	32	1,800	37	105	33	103	35	210	38	33	32	29	35	62	45-64	29	120	28	120	29	240							
75+	24	680	27	580	26	1,260	33	66	31	86	32	150	27	17	27	24	27	41	65+	19	60	24	85	21	145							
All Adults	25	5,950	26	5,820	26	11,800	29	640	31	720	30	1,400	28	210	27	210	27	420	All Adults	23	290	26	345	25	635	25	7,100	26	7,100	26	14,200	

Notes: Obese = BMI 30kg/m² or more (includes morbidly obese). Not all data will have been validated or adjusted for self-reporting - for most of UK, historically BMI was nurse-measured.

All population figures are health survey results applied to mid-2021 estimates published by age, sex and nation by the Office for National Statistics (2022).

UK percentages are population-weighted averages based on data from all four nations, where available. Some totals may not add up due to rounding.

Citation: BHF (2023) Analysis of UK health survey data

Source: NHS England (2022). Health Survey for England 2021: data tables; corrected height and weight

<https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2021>

The Scottish Government (2022). The Scottish Health Survey 2021

<https://www.gov.scot/publications/scottish-health-survey-2021-supplementary-tables/>

Welsh Government (2022). National Survey for Wales - Population health: health-related lifestyle (adults), 2021-22

<https://statswales.gov.wales/Catalogue/National-Survey-for-Wales/Population-Health/Adult-Lifestyles/adultlifestyles-by-age-gender-from202021>

Northern Ireland Statistics and Research Agency (2020). Health Survey Northern Ireland 2019/20. [BMI updates not available Feb 2023]

<https://www.health-ni.gov.uk/publications/tables-health-survey-northern-ireland>

Table 5.13 Prevalence of obesity and overweight in children by sex, England, Scotland, Northern Ireland and UK, latest

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Nation	OBESITY			OVERWEIGHT			OBESE or OVERWEIGHT		
	Boys %	Girls %	All %	Boys %	Girls %	All %	Boys %	Girls %	All %
England	20	13	16	12	15	14	32	28	30
Scotland	20	16	18	11	9	10	31	25	28
Northern Ireland	5	7	6	20	19	20	25	27	26
Wales #									
UK Children Aged 2-15	19	13	16	13	15	14	32	28	30

Notes:

Overweight defined as at or above the 85th but below the 95th percentile; obese defined as at or above the 95th percentile.

UK estimate is a population-weighted average based on data from each nation, where available.

Wales no longer publishes comparable data (since demise of Health Survey for Wales; last edition 2015)

Citation:

BHF (2023) Analysis of UK health survey data

Source:

NHS England (2020). Health Survey for England 2019 [no updates for children Feb 2023]

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

The Scottish Government (2022). The Scottish Health Survey 2021

<https://www.gov.scot/publications/scottish-health-survey-2021-supplementary-tables/>

Northern Ireland Statistics and Research Agency (2020). Health Survey Northern Ireland 2019/20 [no updates for children Feb 2023]

<https://www.health-ni.gov.uk/publications/tables-health-survey-northern-ireland>

Table 5.14 Prevalence of obesity and overweight in children by sex, England, Scotland and Wales, child measurement programme, latest

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Nation	OBESITY			OVERWEIGHT			OBESE or OVERWEIGHT		
	Boys %	Girls %	All %	Boys %	Girls %	All %	Boys %	Girls %	All %
England - Reception (ages 4-5)	10.3	9.9	10.1	12.2	12.1	12.1	22.5	22.0	22.3
England - Year 6 (ages 10-11)	26.4	20.4	23.4	14.3	14.3	14.3	40.7	34.7	37.8
Scotland - Primary 1 (aged c.5)	12.1	11.2	11.7	12.3	12.7	12.4	24.4	23.9	24.1
Wales - AB - ages 4-5 #	18.6	18.0	18.3	14.5	13.9	14.2	33.1	31.9	32.5
Wales - SB - ages 4-5 #	17.8	17.5	17.6	17.5	15.3	16.4	35.2	32.8	34.0

Notes:

Overweight defined as at or above the 85th but below the 95th percentile; obese defined as at or above the 95th percentile.

only Swansea Bay (SB) & Aneurin Bevan (AB) health boards in latest report (limited by the pandemic)

Programme results are not directly comparable.

Citation:

BHF (2023) Analysis of UK child measurement programme data

Source:

NHS England (2022). National Child Measurement Programme, England, 2021/22 school year [accessed Feb 2023]

<https://digital.nhs.uk/data-and-information/publications/statistical/national-child-measurement-programme>

Public Health Scotland (2022). Primary 1 Body Mass Index (BMI) statistics Scotland 2021/22 [accessed Feb 2023]

<https://www.publichealthscotland.scot/publications/primary-1-body-mass-index-bmi-statistics-scotland/primary-1-body-mass-index-bmi-statistics-scotland-school-year-2021-to-2022/>

Public Health Wales (2022) Child Measurement Programme Report 2020-2021 [accessed Feb 2023]

<https://phw.nhs.wales/services-and-teams/child-measurement-programme/cmp-2020-21/>

Table 5.15 Percentage of adults NOT meeting physical activity recommendations by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

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Age	England Nov 2021						Age	Scotland 2021						Age	Wales 2021/22						Age	Northern Ireland 2016/17						Age	UK					
	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		
16-24					31	1,900	16-24	26	74	25	68	26	142						19-24	23	15	40	26	33	41									
25-34					35	2,700	25-34	21	79	27	102	24	180						25-34	34	40	32	40	33	80									
35-44					36	2,700	35-44	23	78	26	92	25	170						35-44	25	31	33	43	30	74									
45-54					35	2,600	45-54	21	74	27	102	24	176						45-54	32	40	42	53	38	93									
55-64					39	2,700	55-64	28	100	39	154	34	255						55-64	51	61	55	68	53	130									
65-74					40	2,200	65-74	34	97	43	134	39	230						65-74	51	44	65	59	59	103									
75-84					57	2,000	75+	49	98	61	170	56	270						75+	86	56	92	80	90	136									
85+					78	1,100																												
All Adults	37	8,200	40	9,500	39	17,700	All Adults	27	600	35	820	31	1,420	All Adults	38	470	49	660	44	1,130	All Adults	39	290	49	370	45	660	37	9,600	40	11,400	39	21,000	

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-2021 estimates published by age, sex and nation by the Office for National Statistics (2022).
UK percentages are population-weighted averages based on data from all four nations, where consistent and available. Totals may not add up due to rounding.

Citation: BHF (2023) Analysis of UK physical activity data

Source: Sport England (2022). Active Lives Survey Nov 20 - Nov 21

The Scottish Government (2022). The Scottish Health Survey 2021

Welsh Government (2022). National Survey for Wales; population health: health-related lifestyle (adults), 2021-22

Northern Ireland Statistics and Research Agency (2017). Health Survey Northern Ireland 2016/17

<https://www.sportengland.org/know-your-audience/data/active-lives/active-lives-data-tables>

<https://www.gov.scot/collections/scottish-health-survey/>

<https://statswales.gov.wales/Catalogue/National-Survey-for-Wales>

<https://www.health-ni.gov.uk/publications/health-survey-northern-ireland-first-results-201617>

Table 5.16 Prevalence of cigarette smoking among adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

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	England 2021						Scotland 2021						Northern Ireland 2021/22							Wales 2021/22						UK estimate					
	Men		Women		All		Men		Women		All		Men		Women		All			Men		Women		All		Men		Women		All	
Age (years)	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	Age (years)	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	11	320	9	270	10	590	10	28	8	22	9	50	30	31	15	15	23	46													
25-34	22	870	15	560	18	1,430	14	53	11	41	13	94	26	31	21	26	23	57													
35-44	14	530	11	400	12	930	14	48	12	42	13	90	17	21	16	21	17	38													
45-54	14	530	10	370	12	900	16	56	16	60	16	116	21	26	16	20	19	46													
55-64	12	440	14	490	13	930	11	40	13	51	12	91	19	23	15	19	17	42													
65-74	8	230	8	220	8	450	7	20	8	25	7	45	13	11	11	10	12	21													
75+	4	110	4	90	4	200	5	10	5	14	5	24	6	4	4	3	5	7													
All Adults	13	3,000	10	2,400	12	5,500	12	255	11	260	11	515	20	150	15	110	17	260	All Adults	14	175	12	165	13	340	13	3,600	11	3,000	12	6,600

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 are rounded and as a result may not add up.

There are significant drops versus previous surveys; these trends cannot be validated (results are mostly unadjusted for possible phone interview under-reporting)

All population figures are health survey results applied to mid-2021 estimates published by age, sex and nation by the Office for National Statistics (2022).

UK percentages are population-weighted averages based on data from all four nations, where available.

Citation:

BHF (2023) Analysis of UK population health surveys

Source:

NHS England (2022). Health Survey for England 2021, Adult behaviours and risks

<https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2021>

The Scottish Government (2022). The Scottish Health Survey 2021

<https://www.gov.scot/publications/scottish-health-survey-2021-supplementary-tables/>

Welsh Government (2022). National Survey for Wales - Population health: health-related lifestyle (adults), 2021-22

<https://stats.wales.gov.wales/Catalogue/National-Survey-for-Wales/Population-Health/Adult-Lifestyles/adultlifestyles-by-age-gender-from202021>

Northern Ireland Statistics and Research Agency (2022). Health Survey Northern Ireland 2021/22

<https://www.health-ni.gov.uk/publications/tables-health-survey-northern-ireland>

NB estimates for all four UK nations can also be found in the ONS (2022) Annual Population Survey (APS) 2021 fieldwork [accessed Feb 2023]	
OTHER	ONS results = Scotland 14.8% - Wales 14.1% - Northern Ireland 13.8% - England 13.0% - overall UK 13.3% (adults aged 18+) = 7m smokers - male 15.1% - female 11.5%
SOURCES	https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthandlifeexpectancies/bulletins/adultsmokinghabitsingreatbritain/2021 for England there is also the GP Patient Survey - latest prevalence (2022) is 13.8% - see OHID Fingertips website https://fingertips.phe.org.uk/

Table 5.17 Percentage of adults exceeding weekly alcohol consumption guidelines by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

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Age	England 2021			Scotland 2021			Age	Wales 2021/22			Age	Northern Ireland 2019/20			Age	UK Total, latest		
	Men %	Women %	All %	Men %	Women %	All %		Men %	Women %	All %		Men %	Women %	All %		Men %	Women %	All %
16-24	20	10	15	19	9	14			18-24		18	18-24	20	10	15			
25-34	23	11	17	25	9	17			25-34		16	25-34	23	11	17			
35-44	28	13	21	32	15	23			35-44		15	35-44	29	13	21			
45-54	27	21	24	35	22	28			45-54		21	45-54	28	21	24			
55-64	36	21	28	34	24	29			55-64		22	55-64	36	21	28			
65-74	36	17	26	39	18	28	45-64	28	14	20	15	65-74	36	17	26			
75+	22	11	16	26	7	15	65+	26	9	17	8	75+	22	11	16			
All Adults	28	15	21	31	16	23	All Adults	23	9	16	All Adults	26	9	17	All Adults	28	15	21

Notes: Weekly recommended limit is 14 units for adults.
UK percentages are population-weighted averages based on data from all four nations, where available and consistent.

Citation: BHF (2023) Analysis of UK population health surveys

Source: NHS England (2022). Health Survey for England 2021, Adult behaviours and risks.

<https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2021>

The Scottish Government (2022). The Scottish Health Survey 2021

<https://www.gov.scot/publications/scottish-health-survey-2021-supplementary-tables/>

Welsh Government (2022). National Survey for Wales - Population health: health-related lifestyle (adults), 2021-22

<https://statswales.gov.wales/Catalogue/National-Survey-for-Wales/Population-Health/Adult-Lifestyles/adultlifestyles-by-age-gender-from202021>

Northern Ireland Statistics and Research Agency (2020). Health Survey Northern Ireland 2019/20 [updates not available Feb 2023]

<https://www.health-ni.gov.uk/publications/tables-health-survey-northern-ireland>

Table 5.18 Percentage of adults NOT meeting 5-a-day fruit and vegetable recommendations by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

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Age (years)	England 2018			Scotland 2021			N Ireland 2021/22			Age (years)	Wales 2021/22			Age in years	UK Total		
	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %		Men %	Women %	All %		Men %	Women %	All %
16-24	82	74	78	91	83	87	66	52	60					16-24	81	74	78
25-34	77	71	74	82	79	81	54	55	55					25-34	77	71	74
35-44	72	63	68	73	80	77	60	49	55					35-44	72	63	68
45-54	75	71	73	82	79	80	62	50	56					45-54	75	71	73
55-64	72	67	70	75	74	75	66	53	59	16-44	68	71	69	55-64	72	67	70
65-74	73	70	72	72	71	71	57	47	51	45-64	71	70	71	65-74	73	70	72
75+	74	75	75	77	76	77	63	59	60	65+	70	72	71	75+	74	75	75
All Adults	75	70	72	78	77	78	61	52	56	All Adults	69	71	70	All Adults	75	70	72

Notes: Recommendation is at least 5 portions of different types of fruit or vegetable.

UK percentages are population-weighted averages based on data from all four nations, where available and consistent.

Citation: BHF (2023) Analysis of UK population health surveys

Source: NHS England (2019). Health Survey for England 2018 [no survey updates; reviewed Feb 2023]

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

The Scottish Government (2022). The Scottish Health Survey 2021

<https://www.gov.scot/publications/scottish-health-survey-2021-supplementary-tables/>

Welsh Government (2022). National Survey for Wales - Population health: health-related lifestyle (adults), 2021-22

<https://statswales.gov.wales/Catalogue/National-Survey-for-Wales/Population-Health/Adult-Lifestyles/adultlifestyles-by-age-gender-from202021>

Northern Ireland Statistics and Research Agency (2022). Health Survey Northern Ireland 2021/22.

<https://www.health-ni.gov.uk/publications/tables-health-survey-northern-ireland>

Table 5.19 Levels of Air Pollution (fine particulate matter; PM_{2.5}) by nation and region, United Kingdom 2019 - 2021

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ONS Code	Nation/Region	PM _{2.5} (anthropogenic)			PM _{2.5} (total)		
		2019	2020	2021	2019	2020	2021
E12000004	East Midlands	9.4	6.5	7.0	9.9	7.0	7.4
E12000006	East of England	9.7	7.2	6.9	10.3	7.8	7.3
E12000007	London	11.4	8.9	8.3	11.9	9.6	8.7
E12000001	North East England	6.2	4.8	6.0	6.6	5.3	6.4
E12000002	North West England	7.9	6.1	6.6	8.3	6.7	7.1
E12000008	South East England	9.1	7.4	6.8	9.7	8.1	7.3
E12000009	South West England	7.3	6.2	6.2	7.9	7.0	6.8
E12000005	West Midlands	9.4	6.7	6.9	9.9	7.3	7.3
E12000003	Yorkshire and The Humber	8.4	6.1	6.3	8.9	6.6	6.7
E92000001	England	9.0	6.9	6.9	9.6	7.5	7.4
S92000003	Scotland	5.2	3.7	3.7	5.5	4.1	4.1
W92000004	Wales	6.9	5.4	6.0	7.5	6.1	6.6
N92000002	Northern Ireland	5.5	5.0	5.3	5.9	5.6	5.7
K02000001	UK	8.5	6.5	6.5	9.1	7.1	7.0

Notes: Population-weighted annual mean PM_{2.5} concentration for 2019, 2020 and 2021 (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.

Citation: BHF (2023) Analysis of Defra air pollution data

Source: Department for Environment Food & Rural Affairs (Defra) (2022). UK Air Information Resource
<https://uk-air.defra.gov.uk/data/pcm-data> [accessed Feb 2023]

Table 5.20 Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, global, 2019

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Reset to Published Order	RISK FACTOR (% attributable)	2019 estimated burden - GLOBAL DEATHS			attributable global deaths (annual m)			2019 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)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	86.0%	93.5%	85.0%				85.8%	94.5%	87.0%
	High systolic blood pressure (hypertension)	53.7%	53.2%	52.6%	10.0	4.9	3.4	54.4%	54.6%	55.5%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	36.9%	53.4%	26.6%	6.9	4.9	1.7	39.0%	57.1%	30.6%
	High LDL (bad) cholesterol	23.7%	41.4%	9.4%	4.4	3.8	0.6	25.1%	46.6%	9.6%
	High fasting plasma glucose	20.3%	25.8%	21.2%	3.8	2.4	1.4	18.5%	23.8%	20.2%
	Air pollution (particulate matter)	19.1%	20.2%	26.0%	3.5	1.8	1.7	22.6%	24.9%	30.4%
	High body-mass index (obesity and excess weight)	17.4%	18.2%	16.6%	3.2	1.7	1.1	22.1%	22.7%	24.3%
	Tobacco (cigarette smoking, second-hand smoke)	17.2%	21.9%	16.8%	3.2	2.0	1.1	21.1%	27.9%	20.6%
	Impaired kidney function (renal failure)	9.3%	13.4%	7.7%	1.7	1.2	0.5	8.8%	12.4%	8.3%
	Non-optimal temperature (high/low)	6.4%	6.5%	8.0%	1.2	0.6	0.5	5.5%	6.1%	6.6%
	Other environmental risks (e.g. lead exposure)	4.6%	4.5%	4.7%	0.8	0.4	0.3	4.5%	4.6%	4.7%
	Low physical activity (inactivity, sedentary behaviour)	3.4%	5.3%	2.3%	0.6	0.5	0.2	2.5%	4.2%	1.7%
	Other risk factors/unknown	14.0%	6.5%	15.0%				14.2%	5.5%	13.0%

Notes

Annual attributable deaths rounded and presented in millions.
Non-modifiable risk factors (age, sex, 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

Citation: BHF (2022) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.
Global Burden of Disease Study 2019 (GBD 2019) Results.
Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

<http://ghdx.healthdata.org/gbd-results-tool>
[accessed January 2022]
[no updates as of Feb 2023]