



British Heart  
Foundation

# Heart and Circulatory Disease Statistics 2019

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There are five chapters presented here  
(mortality, morbidity, treatment, costs and risk factors)

Original Excel spreadsheets, graphs and tables can be found at  
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# Chapter One - Mortality

MORTALITY BY CAUSE	
T1.1	Deaths by cause, by gender and age, UK - 2017
T1.2	Deaths by cause, all ages and premature deaths (under 75) by gender, England, Wales, Scotland and Northern Ireland - 2017
TRENDS IN MORTALITY	
T1.3	Age-standardised death rates from heart and circulatory diseases (CVD), all ages, England, Wales, Scotland, Northern Ireland and UK - 1969 to 2017
T1.4	Age-standardised death rates from heart and circulatory diseases (CVD), under 75, England, Wales, Scotland, Northern Ireland and UK - 1969 to 2017
T1.5	Age-standardised death rates from coronary heart disease (CHD), all ages, England, Wales, Scotland, Northern Ireland and UK - 1971 to 2017
T1.6	Age-standardised death rates from coronary heart disease (CHD), under 75, England, Wales, Scotland, Northern Ireland and UK - 1969 to 2017
T1.7	Age-standardised death rates from stroke (CBVD), all ages, England, Wales, Scotland, Northern Ireland and UK - 1969 to 2017
T1.8	Age-standardised death rates from stroke (CBVD), under 75, England, Wales, Scotland, Northern Ireland and UK - 1969 to 2017
EXCESS WINTER MORTALITY	
T1.9	Excess winter mortality for heart and circulatory diseases (CVD) and coronary heart disease (CHD) by gender and age, England - 2010/2011 to 2016/17
T1.10	Excess winter mortality for heart and circulatory diseases (CVD) and coronary heart disease (CHD) by gender and age, Wales - 2010/2011 to 2016/17
T1.11	Excess winter mortality for heart and circulatory diseases (CVD) and coronary heart disease (CHD) by gender and age, Scotland - 2010/2011 to 2017/18
T1.12	Excess winter mortality for heart and circulatory diseases (CVD) and coronary heart disease (CHD) by gender and age, Northern Ireland - 2010/2011 to 2017/18
T1.13	Excess winter mortality for heart and circulatory diseases (CVD), England and Wales - 2007/08 to 2017/18
MORTALITY BY NATION AND REGION	
T1.14	Numbers of deaths and age-standardised death rates from heart and circulatory diseases (CVD) in men and women, all ages by region and nation, UK - 2015/17
T1.15	Numbers of deaths and age-standardised death rates from heart and circulatory diseases (CVD) in men and women, under 75, by region and nation, UK - 2015/17
T1.16	Numbers of deaths and age-standardised death rates from coronary heart disease (CHD) in men and women, all ages, by region and nation, UK - 2015/17
T1.17	Numbers of deaths and age-standardised death rates from coronary heart disease (CHD) in men and women, under 75, by region and nation, UK - 2015/17
T1.18	Numbers of deaths and age-standardised death rates from stroke (CBVD) in men and women, all ages, by region and nation, UK - 2015/17
T1.19	Numbers of deaths and age-standardised death rates from stroke (CBVD) in men and women, under 75, by region and nation, UK - 2015/17
MORTALITY BY LOCAL AUTHORITY	
T1.20	Heart and circulatory diseases (CVD) mortality rates and number of deaths, all ages by local authority, UK - 2015/17
T1.21	Heart and circulatory diseases (CVD) mortality rates and number of deaths, under 75 by local authority, UK - 2015/17
T1.22	Coronary heart disease (CHD) mortality rates and number of deaths, by local authority, UK - 2015/17
T1.23	Coronary heart disease (CHD) mortality rates and number of deaths, under 75 by local authority, UK - 2015/17
T1.24	Stroke (CBVD) mortality rates and number of deaths, all ages by local authority, UK - 2015/17
T1.25	Stroke (CBVD) mortality rates and number of deaths, under 75 by local authority, UK - 2015/17
GLOBAL MORTALITY	
T1.26	Deaths and mortality rates for heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), by continent and selected country - 2017
T1.27	Years of life lost (YLLs), disability-adjusted life years (DALYs) for heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), by continent and country - 2017

## Chapter Two - Morbidity

### INCIDENCE - HOSPITAL EPISODES

T2.1 Inpatient episodes by main diagnosis in NHS hospitals, by gender, England, Scotland, Wales, Northern Ireland and UK - 2017/18

### TRENDS IN INCIDENCE - HOSPITAL EPISODES

T2.2a All inpatient episodes by main diagnosis, England, Scotland, Wales, Northern Ireland and UK - 2005/06 to 2017/18

T2.2b Inpatient episodes by main diagnosis for men, England, Scotland, Wales, Northern Ireland and UK - 2005/06 to 2017/18

T2.2c Inpatient episodes by main diagnosis for women, England, Scotland, Wales, Northern Ireland and UK - 2005/06 to 2017/18

### INCIDENCE - HOSPITAL ADMISSIONS

T2.3 Inpatient admissions by main diagnosis in NHS hospitals, by gender, England, Scotland, Wales, Northern Ireland and UK - 2017/18

### TRENDS IN INCIDENCE - HOSPITAL ADMISSIONS

T2.4a All inpatient admissions by main diagnosis, England, Scotland, Wales, Northern Ireland and UK - 2009/10 to 2017/18

T2.4b Inpatient admissions by main diagnosis for men, England, Scotland, Wales, Northern Ireland and UK - 2009/10 to 2017/18

T2.4c Inpatient admissions by main diagnosis for women, England, Scotland, Wales, Northern Ireland and UK - 2009/10 to 2017/18

### PREVALENCE AND INCIDENCE

T2.5 Prevalence of selected heart and circulatory diseases by UK nation and English region, UK - 2017/18

T2.6 Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) by UK nation and English region - 2017

T2.7 Prevalence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) by UK nation and English region - 2017

### TRENDS IN PREVALENCE

T2.8 Prevalence of heart and circulatory diseases - from GP patient registers (QOF), England - 2004/05 to 2017/18

T2.9 Prevalence of heart and circulatory diseases - from GP patient registers (QOF), Scotland - 2008/09 to 2017/18

T2.10 Prevalence of heart and circulatory diseases - from GP patient registers (QOF), Wales - 2006/07 to 2017/18

T2.11 Prevalence of heart and circulatory diseases - from GP patient registers (QOF), Northern Ireland - 2004/05 to 2017/18

T2.12 Prevalence of heart and circulatory diseases - from national health survey by gender, England - 2003 to 2017

T2.13 Prevalence of heart and circulatory diseases - from national health survey by gender, Scotland - 2003 to 2017

T2.14 Prevalence of heart conditions and stroke - from national health survey by gender, Wales - 2003/04 to 2015

T2.15 Prevalence of heart and circulatory diseases - from national health survey by age group, England - 2003 to 2017

T2.16 Prevalence of heart and circulatory diseases - from national health survey by age group, Scotland - 2003 to 2017

T2.17 Prevalence of heart and circulatory diseases - from national health survey by equivalised household income and gender, England - 2017

T2.18 Prevalence of heart and circulatory diseases - from national health survey by equivalised household income and gender, Scotland - 2017

COMORBIDITIES	
T2.19	Percentage of coronary heart disease (CHD) patients with each comorbidity, 4N and UK - 2015
T2.20	Percentage of coronary heart disease (CHD) patients with each comorbidity by age band - 2015
T2.21	Percentage of coronary heart disease (CHD) patients with each comorbidity by Townsend score - 2015
T2.22	Percentage of coronary heart disease (CHD) patients with each comorbidity by age band and BMI category - 2015
T2.23	Percentage of stroke (CBVD) patients with each comorbidity, 4N and UK - 2015
T2.24	Percentage of stroke (CBVD) patients with each comorbidity by age band - 2015
T2.25	Percentage of stroke (CBVD) patients with each comorbidity by Townsend score - 2015
T2.26	Percentage of stroke (CBVD) patients with each comorbidity by age band and BMI category - 2015
GLOBAL INCIDENCE & PREVALENCE	
T2.27	Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), 2017
T2.28	Prevalence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), 2017

## Chapter Three - Treatment

PRESCRIPTIONS	
T3.1	Prescriptions used in the prevention and treatment of heart and circulatory disease (CVD), England - 1981 to 2018
T3.2	Prescriptions used in the prevention and treatment of heart and circulatory disease (CVD), Wales - 2005 to 2017
T3.3	Prescriptions used in the prevention and treatment of heart and circulatory disease (CVD), Scotland - 2001/02 to 2017/18
T3.4	Prescriptions used in the prevention and treatment of heart and circulatory disease (CVD), Northern Ireland - 2000 to 2017
T3.5	Prescriptions used in the prevention and treatment of heart and circulatory disease (CVD), UK - latest year
OPERATIONS	
T3.6	Number of CABGs and PCIs, UK - 1977 to 2015
T3.7	Number of valve replacements and repairs, UK - 2003 to 2015
T3.8	Number and rate of CABGs, Scotland - 2008/09 to 2017/18
TRANSPLANTS	
T3.9	Cardiothoracic transplant list, - UK 2017/18
T3.10	Cardiothoracic transplants and rate per million population, by country, UK - 2010/11 to 2017/18
IMPLANTS	
T3.11	New Pacemaker implants and rate per million population, by country, UK - 2010/11 to 2015/16
OUT-OF-HOSPITAL CARDIAC ARRESTS (OHCAs)	
T3.12	Out-of-hospital cardiac arrest survival rates, by ambulance service, England - 2011-12 to 2017-18; Apr 2011 to Oct 2018
T3.13	Out-of-hospital cardiac arrest survival rates, Scotland - 2011-12 to 2017-18

## Chapter Four - Costs

T4.1	Economic and healthcare costs of heart and circulatory disease (CVD), coronary heart disease (CHD) and stroke, UK - 2015
T4.2	NHS expenditure on heart and circulatory disease (CVD) by care setting and condition, England - 2013/14
T4.3	NHS expenditure on heart and circulatory disease (CVD) by Commissioning Region, England - 2013/14
T4.4	NHS expenditure on heart and circulatory disease (CVD) by Health Board, Wales - 2016/17
T4.5	Financial Impact of stroke admissions by Health Board, Wales - 2016/17
T4.6	Financial Impact of heart failure admissions for patients with an emergency readmission within 30 days by Health Board, Wales - 2016/17
T4.7	Financial Impact of non-ST elevation acute coronary syndrome (NSTEMI) Admissions by Health Board, Wales - 2016/17
T4.8	NHS expenditure on heart and circulatory disease (CVD) by Health and Social Care Trust, Northern Ireland - 2014/15
T4.9	NHS expenditure on heart and circulatory disease (CVD) by care setting and condition, Scotland - 2011/12

## Chapter Five - Risk Factors

IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES IN UK	
T5.1	Percentage of heart and circulatory disease (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to selected risk factors in the UK, 2017
HIGH BLOOD PRESSURE (HYPERTENSION)	
T5.2	Prevalence of high blood pressure in adults by age and gender, England, Scotland, Wales and Northern Ireland, latest available
T5.3	Prevalence of untreated high blood pressure in adults by age and gender, England, Scotland, latest available
DIABETES	
T5.4	Prevalence of doctor-diagnosed diabetes in adults by age and gender, England, Scotland and Wales, latest available
T5.5	Prevalence of diabetes by nation and region, UK 2017/18
RAISED CHOLESTEROL	
T5.6	Percentage of adults with raised cholesterol by age and gender, England and Scotland, latest available
OVERWEIGHT AND OBESITY	
T5.7	Prevalence of overweight (including obese) in adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available
T5.8	Prevalence of obesity in adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available
PHYSICAL INACTIVITY	
T5.9	Percentage of adults NOT meeting physical activity recommendations by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available
SMOKING	
T5.10	Prevalence of cigarette smoking among adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available
ALCOHOL CONSUMPTION	
T5.11	Percentage of adults exceeding weekly alcohol consumption guidelines by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available
FRUIT AND VEGETABLE CONSUMPTION	
T5.12	Percentage of adults NOT meeting 5-a-day fruit and vegetable recommendations by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available
T5.13	Average number of portions of fruit and vegetables consumed per day by adults by age and gender, England, Scotland, Wales and Northern Ireland, by latest available
GLOBAL IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES	
T5.14	Percentage of heart and circulatory disease (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to selected risk factors - global estimates, 2017

## GLOSSARY

### Definitions for the terms used in this compendium

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

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

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

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

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

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

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

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

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

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

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

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

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

**Diabetes** - a disease characterised by high blood sugar levels in blood. There are two main types: Type 1 - caused by body being unable to make the hormone insulin; Type 2 - your body does not use insulin properly. Also called insulin resistance. The resulting chronic high blood glucose levels (hyperglycaemia) are associated with long-term damage, dysfunction and failure of various organs, especially the eyes, kidneys, nerves, heart and blood vessels.

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

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

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

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

**Heart failure** - a chronic condition which occurs when the heart is unable to pump blood as efficiently around the body. It occurs because the heart is damaged or overworked. Some people with minor heart failure may have few or no symptoms. People with moderate or severe heart failure often suffer from a number of problems, including shortness of

breath, general tiredness and swelling of the feet and ankles.

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

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

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

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

**Myocardial infarction (MI)** - see heart attack.

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

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

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

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

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

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

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

**THIN - The Health Improvement Network** - a very large dataset with anonymised data from millions of

patient records held by GPs; considered to be broadly representative of the UK population.

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

**Transient ischaemic attacks (TIA)** - a temporary disruption in the blood supply to part of the brain. Sometimes called a mini-stroke, a TIA does not last as long as a stroke. The effects are usually fully resolved within 24 hours.

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

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

## ABOUT THE BRITISH HEART FOUNDATION

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

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

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

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## Heart and Circulatory Disease Statistics 2019 - Chapter 1 - Mortality

This chapter presents heart and circulatory diseases (CVD) in the context of mortality: local, regional and seasonal differences

### MORTALITY BY CAUSE

- [T1.1](#) Deaths by cause, by gender and age, United Kingdom 2017
- [T1.2](#) Deaths by cause, all ages and under 75, by gender, England, Wales, Scotland and Northern Ireland 2017

### TRENDS IN MORTALITY

- [T1.3](#) Age-standardised death rates from heart and circulatory diseases (CVD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 1969 to 2017
- [T1.4](#) Age-standardised death rates from heart and circulatory diseases (CVD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 1969 to 2017
- [T1.5](#) Age-standardised death rates from coronary heart disease (CHD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 1971 to 2017
- [T1.6](#) Age-standardised death rates from coronary heart disease (CHD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 1969 to 2017
- [T1.7](#) Age-standardised death rates from stroke (CBVD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 1969 to 2017
- [T1.8](#) Age-standardised death rates from stroke (CBVD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 1969 to 2017

### EXCESS WINTER MORTALITY

- [T1.9](#) Excess winter mortality for CVD and CHD by gender and age, England 2010/2011 to 2016/17
- [T1.10](#) Excess winter mortality for CVD and CHD by gender and age, Wales 2010/2011 to 2016/17
- [T1.11](#) Excess winter mortality for CVD and CHD by gender and age, Scotland 2010/2011 to 2017/18
- [T1.12](#) Excess winter mortality for CVD and CHD by gender and age, Northern Ireland 2010/2011 to 2017/18
- [T1.13](#) Excess winter mortality for CVD, England and Wales, 2007/08 to 2017/18

### MORTALITY BY NATION AND REGION

- [T1.14](#) Numbers of deaths and age-standardised death rates from heart and circulatory diseases in men and women, all ages by region and nation, United Kingdom 2015/17
- [T1.15](#) Numbers of deaths and age-standardised death rates from heart and circulatory diseases in men and women, under 75, by region and nation, United Kingdom 2015/17
- [T1.16](#) Numbers of deaths and age-standardised death rates from coronary heart disease (CHD) in men and women, all ages, by region and nation, United Kingdom 2015/17
- [T1.17](#) Numbers of deaths and age-standardised death rates from coronary heart disease (CHD) in men and women, under 75, by region and nation, United Kingdom 2015/17
- [T1.18](#) Numbers of deaths and age-standardised death rates from stroke (CBVD) in men and women, all ages, by region and nation, United Kingdom 2015/17
- [T1.19](#) Numbers of deaths and age-standardised death rates from stroke (CBVD) in men and women, under 75, by region and nation, United Kingdom 2015/17

### MORTALITY BY LOCAL AUTHORITY

- [T1.20](#) Heart and circulatory disease (CVD) mortality rates and number of deaths, all ages by local authority, United Kingdom 2015/17
- [T1.21](#) Heart and circulatory disease (CVD) mortality rates and number of deaths, under 75 by local authority, United Kingdom 2015/17
- [T1.22](#) Coronary heart disease (CHD) mortality rates and number of deaths, by local authority, United Kingdom 2015/17
- [T1.23](#) Coronary heart disease (CHD) mortality rates and number of deaths, under 75 by local authority, United Kingdom 2015/17
- [T1.24](#) Stroke (CBVD) mortality rates and number of deaths, all ages by local authority, United Kingdom 2015/17
- [T1.25](#) Stroke (CBVD) mortality rates and number of deaths, under 75 by local authority, United Kingdom 2015/17

### GLOBAL MORTALITY

- [T1.26](#) Deaths and mortality rates for heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations, 2017
- [T1.27](#) Years of life lost (YLLs) and disability-adjusted life years (DALYs) for heart and circulatory disease (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations 2017

**Table 1.1 Deaths by cause, by gender and age, United Kingdom 2017**

[Back to Table of Contents](#)

		All ages	Under 35	35-44	45-54	55-64	65-74	75-84	85+
All causes	MEN	298,843	7,109	6,261	14,876	28,683	59,287	90,819	91,808
	WOMEN	308,329	4,044	3,784	9,910	19,364	42,443	81,155	147,629
	Total	607,172	11,153	10,045	24,786	48,047	101,730	171,974	239,437
All heart and circulatory diseases (I00-I99, F01, Q20-Q28)	MEN	85,397	570	1,115	3,827	7,973	15,991	26,908	29,013
	WOMEN	83,075	351	500	1,521	3,176	8,448	22,421	46,658
	Total	168,472	921	1,615	5,348	11,149	24,439	49,329	75,671
Chronic rheumatic heart diseases (I05-I09)	MEN	297	4	3	12	23	49	112	94
	WOMEN	654	6	9	17	25	87	231	279
	Total	951	10	12	29	48	136	343	373
Hypertensive diseases (I10-I15)	MEN	3,300	10	37	159	320	543	968	1,263
	WOMEN	4,361	1	11	57	169	391	964	2,768
	Total	7,661	11	48	216	489	934	1,932	4,031
Coronary heart disease (I20-I25)	MEN	40,974	121	515	2,287	5,098	9,246	12,612	11,095
	WOMEN	25,367	14	118	536	1,419	3,482	7,536	12,262
	Total	66,341	135	633	2,823	6,517	12,728	20,148	23,357
Other heart diseases (I26-I52)	MEN	12,594	205	260	533	887	1,923	3,610	5,176
	WOMEN	15,996	141	144	303	512	1,319	3,848	9,729
	Total	28,590	346	404	836	1,399	3,242	7,458	14,905
Stroke (I60-I69)	MEN	15,509	89	151	494	1,001	2,426	5,235	6,113
	WOMEN	21,119	52	130	394	726	1,968	5,768	12,081
	Total	36,628	141	281	888	1,727	4,394	11,003	18,194
Diseases of arteries, arterioles and capillaries (I70-I79)	MEN	4,911	20	54	142	345	1,015	1,842	1,493
	WOMEN	4,158	13	20	56	132	543	1,369	2,025
	Total	9,069	33	74	198	477	1,558	3,211	3,518
Diseases of veins, lymphatic vessels and lymph nodes* (I80-I89)	MEN	1,377	35	71	164	246	375	305	181
	WOMEN	1,761	27	53	129	168	346	528	510
	Total	3,138	62	124	293	414	721	833	691
Vascular dementia (F01)	MEN	6,186	-	-	4	27	382	2,194	3,579
	WOMEN	9,415	-	-	1	9	279	2,143	6,983
	Total	15,601	-	-	5	36	661	4,337	10,562
Congenital malformations of the circulatory system # (Q20-Q28)	MEN	239	86	24	32	26	31	29	11
	WOMEN	227	97	15	28	16	31	29	11
	Total	466	183	39	60	42	62	58	22
Cancer (C00-D48)	MEN	91,059	630	1,053	4,072	11,270	25,205	29,832	18,997
	WOMEN	79,705	643	1,355	4,615	9,764	19,706	24,242	19,380
	Total	170,764	1,273	2,408	8,687	21,034	44,911	54,074	38,377
Lung cancer (C33,C34)	MEN	18,846	8	106	722	2,696	6,229	6,368	2,717
	WOMEN	16,376	14	89	617	2,229	5,222	5,286	2,919
	Total	35,222	22	195	1,339	4,925	11,451	11,654	5,636
Breast cancer (C50)	MEN	82	-	2	5	11	23	18	23
	WOMEN	11,408	80	436	1,311	1,710	2,480	2,696	2,695
	Total	11,490	80	438	1,316	1,721	2,503	2,714	2,718
Respiratory disease (J00-J99)	MEN	40,132	195	196	789	2,415	7,398	13,425	15,714
	WOMEN	42,322	151	162	620	1,967	5,740	11,875	21,807
	Total	82,454	346	358	1,409	4,382	13,138	25,300	37,521
Lower respiratory disease (J40 - J47)	MEN	17,837	42	50	356	1,344	4,401	6,650	4,994
	WOMEN	18,393	38	45	288	1,249	3,926	6,513	6,334
	Total	36,230	80	95	644	2,593	8,327	13,163	11,328
Diabetes (E10-E14)	MEN	3,677	62	85	199	341	622	1,209	1,159
	WOMEN	3,615	43	43	105	244	444	1,020	1,716
	Total	7,292	105	128	304	585	1,066	2,229	2,875
Unspecified dementia and Alzheimer's (F03, G30)	MEN	19,701	-	-	11	132	1,203	6,308	12,047
	WOMEN	40,788	-	1	19	131	1,347	8,882	30,408
	Total	60,489	-	1	30	263	2,550	15,190	42,455
All other causes	MEN	58,877	5,652	3,812	5,978	6,552	8,868	13,137	14,878
	WOMEN	58,824	2,856	1,723	3,030	4,082	6,758	12,715	27,660
	Total	117,701	8,508	5,535	9,008	10,634	15,626	25,852	42,538

**Notes:** ICD-10 codes in parentheses.

\*Not classified elsewhere

This table compiles data from the four countries of the UK.

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

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

[https://www.nomisweb.co.uk/home/release\\_group.asp?q=23](https://www.nomisweb.co.uk/home/release_group.asp?q=23)

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

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

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

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

**Table 1.2 Deaths by cause, by gender and age, England, Wales, Scotland and Northern Ireland 2017**

[Back to Table of Contents](#)

		All ages				Under 75			
		England	Wales	Scotland	Northern Ireland	England	Wales	Scotland	Northern Ireland
All causes	MEN	245,464	16,564	28,250	7,915	93,512	6,559	12,333	3,360
	WOMEN	253,418	16,684	29,633	8,121	63,750	4,538	8,659	2,292
	Total	498,882	33,248	57,883	16,036	157,262	11,097	20,992	5,652
All heart and circulatory diseases (I00-I99, F01, Q20-Q28)	MEN	69,698	4,801	8,495	2,109	23,563	1,771	3,185	766
	WOMEN	67,756	4,424	8,738	1,995	11,121	786	1,628	365
	Total	137,454	9,225	17,233	4,104	34,684	2,557	4,813	1,131
Chronic rheumatic heart diseases (I05-I09)	MEN	236	15	34	11	70	4	14	2
	WOMEN	520	29	79	25	117	4	17	5
	Total	756	44	113	36	187	8	31	7
Hypertensive diseases (I10-I15)	MEN	2,834	139	251	66	898	46	91	25
	WOMEN	3,706	180	362	110	520	20	67	21
	Total	6,540	319	613	176	1,418	66	158	46
Coronary heart disease (I20-I25)	MEN	33,327	2,383	4,034	1,045	13,749	1,042	1,891	459
	WOMEN	20,525	1,438	2,693	646	4,376	320	689	148
	Total	53,852	3,821	6,727	1,691	18,125	1,362	2,580	607
Other heart diseases (I26-I52)	MEN	10,364	727	1,173	302	3,038	240	423	93
	WOMEN	13,224	865	1,493	392	1,921	137	283	66
	Total	23,588	1,592	2,666	694	4,959	377	706	159
Stroke (I60-I69)	MEN	12,648	803	1,597	424	3,354	238	445	109
	WOMEN	17,057	1,123	2,330	564	2,609	178	358	97
	Total	29,705	1,926	3,927	988	5,963	416	803	206
Diseases of arteries, arterioles and capillaries (I70-I79)	MEN	4,007	304	485	93	1,239	99	178	43
	WOMEN	3,486	199	389	69	614	47	84	10
	Total	7,493	503	874	162	1,853	146	262	53
Diseases of veins, lymphatic vessels and lymph nodes* (I80-I89)	MEN	1,160	106	84	22	730	73	67	18
	WOMEN	1,527	114	107	8	592	52	69	6
	Total	2,687	220	191	30	1,322	125	136	24
Vascular dementia (F01)	MEN	4,922	316	813	135	326	23	55	9
	WOMEN	7,515	462	1,263	174	220	17	43	9
	Total	12,437	778	2,076	309	546	40	98	18
Congenital malformations of the circulatory system (Q20-Q28 )	MEN	191	8	23	11	158	6	21	8
	WOMEN	185	13	20	4	150	11	18	3
	Total	376	21	43	15	308	17	39	11
All cancer (C00-D48)	MEN	75,059	4,873	8,573	2,409	34,499	2,332	4,097	1,208
	WOMEN	65,107	4,315	7,958	2,172	29,271	2,027	3,639	1,028
	Total	140,166	9,188	16,531	4,581	63,770	4,359	7,736	2,236
Lung cancer (C33,C34)	MEN	15,229	1,001	2,036	559	7,807	545	1,098	298
	WOMEN	12,959	890	2,033	463	6,415	478	995	265
	Total	28,188	1,891	4,069	1,022	14,222	1,023	2,093	563
Breast cancer (C50)	MEN	67	5	8	2	35	2	3	1
	WOMEN	9,502	617	946	315	4,985	318	525	165
	Total	9,569	622	954	317	5,020	320	528	166
Respiratory disease (J00-J99)	MEN	33,511	2,422	3,137	1,013	9,074	658	964	267
	WOMEN	34,841	2,590	3,717	1,132	6,868	571	952	231
	Total	68,352	5,012	6,854	2,145	15,942	1,229	1,916	498
Lower respiratory disease (J40 - J47)	MEN	14,872	953	1,518	478	5,087	347	599	153
	WOMEN	14,884	1,035	1,931	527	4,361	331	689	157
	Total	29,756	1,988	3,449	1,005	9,448	678	1,288	310
Diabetes (E10-E14)	MEN	2,812	207	522	132	943	64	234	64
	WOMEN	2,861	160	494	98	663	42	149	25
	Total	5,673	367	1,016	230	1,606	106	383	89
Unspecified dementia and Alzheimer's (F03, G30)	MEN	16,803	1,061	1,352	478	1,124	81	106	35
	WOMEN	34,544	2,003	3,121	1,113	1,226	83	138	51
	Total	51,347	3,064	4,473	1,591	2,350	164	244	86
All other causes	MEN	47,581	3,200	6,171	1,774	24,309	1,653	3,747	1,020
	WOMEN	48,309	3,192	5,605	1,611	14,601	1,029	2,153	592
	Total	95,890	6,392	11,776	3,385	38,910	2,682	5,900	1,612

**Notes:** ICD-10 codes in parentheses.

\*Not classified elsewhere

This table compiles data from the four countries of the UK.

The four countries in this table do not always add up to the United Kingdom totals in Table 1.1, as the separate England and Wales figures are only for people who were residing in the country at the time of death; therefore the mortality figures for England and Wales separately are lower than the published mortality figures for England & Wales together.

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

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

[https://www.nomisweb.co.uk/home/release\\_group.asp?q=23](https://www.nomisweb.co.uk/home/release_group.asp?q=23)

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

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

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

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

**Table 1.3 Age-standardised death rates per 100,000 from cardiovascular disease (CVD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1969 to 2017**

[Back to Table of Contents](#)

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	542	368	442	531	358	433	555	395	466	642	440	523	560	385	459
2005	513	348	419	502	339	409	552	382	457	598	417	494	534	352	427
2006	480	326	392	471	318	384	505	349	418	549	385	454	493	346	408
2007	460	313	377	449	306	368	489	345	410	549	367	443	498	328	397
2008	446	308	368	437	301	360	480	330	396	504	356	421	478	319	383
2009	416	285	343	409	279	336	441	310	369	468	331	390	435	298	356
2010	405	274	331	397	269	325	437	298	359	458	310	373	429	284	345
2011	356	237	289	347	230	281	384	254	311	422	296	351	369	242	297
2012	346	237	286	338	231	278	382	255	310	407	293	344	352	247	294
2013	341	228	278	333	222	271	386	247	307	403	278	332	343	235	282
2014	323	214	263	316	208	256	351	232	285	382	259	313	322	213	260
2015	324	217	265	316	210	258	350	238	289	395	271	326	319	211	258
2016	308	204	251	301	198	244	334	223	273	374	253	306	295	201	242
2017	303	199	246	296	194	240	326	207	262	365	248	300	309	199	248

**Notes:** ICD-10 codes I00-I99. Directly age-standardised using the 2013 European Standard Population.  
Northern Ireland coded deaths differently until 1979, therefore these under estimate the rate compared to rest of the UK.

**Source:** 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.  
Scotland, General Register Office (2017) Personal communication.  
Northern Ireland, Statistics and Research Agency (2017) Personal communication.  
2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.  
2015 to 2017 England and Wales: NOMIS Mortality Statistics  
[www.nomisweb.co.uk/articles/983.aspx](http://www.nomisweb.co.uk/articles/983.aspx)

**Table 1.4 Age-standardised death rates per 100,000 from cardiovascular disease (CVD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1969 to 2017**

[Back to Table of Contents](#)

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	182	83	131	177	80	127	188	95	140	222	107	160	191	89	137
2005	170	78	122	165	75	118	188	88	136	211	100	153	172	81	124
2006	158	74	114	154	71	111	171	78	123	193	95	141	161	80	119
2007	150	69	108	145	66	104	159	77	117	195	90	139	155	70	111
2008	142	65	102	137	62	99	151	72	110	181	84	130	143	71	105
2009	133	60	95	129	57	92	145	69	106	161	78	117	134	67	99
2010	130	57	92	126	55	89	135	63	98	159	73	114	139	64	100
2011	118	52	84	114	49	80	129	62	94	148	69	107	124	51	86
2012	112	51	81	108	49	78	122	58	89	143	68	104	113	45	78
2013	111	49	79	108	47	77	124	56	89	140	66	102	109	49	78
2014	107	47	76	104	46	74	116	54	84	131	60	94	101	47	73
2015	107	49	77	103	47	74	123	57	89	137	63	98	102	48	74
2016	105	47	75	101	45	73	119	55	86	132	63	96	97	47	71
2017	103	46	74	99	44	71	121	50	85	130	61	95	101	45	72

**Notes:** ICD-10 codes I00-I99. Directly age-standardised using the 2013 European Standard Population.  
Northern Ireland coded deaths differently until 1979, therefore these under estimate the rate compared to rest of the UK.

**Source:** 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.  
Scotland, General Register Office (2017) Personal communication.  
Northern Ireland, Statistics and Research Agency (2017) Personal communication.  
2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.  
2015 to 2017 England and Wales: NOMIS Mortality Statistics  
[www.nomisweb.co.uk/articles/983.aspx](http://www.nomisweb.co.uk/articles/983.aspx)

**Table 1.5 Age-standardised death rates per 100,000 from coronary heart disease (CHD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1971 to 2017**

[Back to Table of Contents](#)

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	242	328	169	235	360	195	265	396	220	290	349	197	259
2003	321	169	233	312	164	226	357	187	257	394	210	283	340	184	248
2004	297	155	215	289	149	208	312	172	231	364	197	264	323	174	237
2005	280	145	202	271	139	195	315	164	227	340	184	248	320	164	227
2006	257	134	186	251	128	180	275	148	203	306	171	226	284	157	210
2007	246	126	177	238	122	171	265	143	197	306	156	218	283	145	201
2008	233	121	169	227	116	163	260	131	186	276	152	204	269	138	191
2009	217	109	155	211	105	150	234	122	171	259	138	188	247	132	180
2010	209	103	148	203	99	143	227	115	163	253	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

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

**Source:** 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.  
 Scotland, General Register Office (2017) Personal communication.  
 Northern Ireland, Statistics and Research Agency (2017) Personal communication.  
 2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.  
 2015 to 2017 England and Wales: NOMIS Mortality Statistics  
[www.nomisweb.co.uk/articles/983.aspx](http://www.nomisweb.co.uk/articles/983.aspx)

**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 2017**

[Back to Table of Contents](#)

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

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

Source: 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.  
 Scotland, General Register Office (2017) Personal communication.  
 Northern Ireland, Statistics and Research Agency (2017) Personal communication.  
 2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.  
 2015 to 2017 England and Wales: NOMIS Mortality Statistics  
[www.nomisweb.co.uk/articles/983.aspx](http://www.nomisweb.co.uk/articles/983.aspx)

**Table 1.7 Age-standardised death rates per 100,000 from stroke (CBVD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 1969 to 2017**

[Back to Table of Contents](#)

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	136	142	145	131	138	148	145	148	182	172	177	147	142	145
2003	142	132	137	138	129	134	156	137	145	180	164	171	146	135	140
2004	129	121	125	125	117	121	124	127	128	169	153	160	136	124	129
2005	120	114	117	117	111	114	122	115	120	150	144	148	117	110	114
2006	114	106	110	111	103	107	122	109	114	139	131	136	117	109	114
2007	107	102	105	104	99	102	113	105	110	137	126	132	116	109	112
2008	105	101	103	102	97	100	106	108	109	132	126	130	114	107	109
2009	96	92	95	94	89	92	100	101	102	117	116	118	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

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

**Source:** 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.  
Scotland, General Register Office (2017) Personal communication.  
Northern Ireland, Statistics and Research Agency (2017) Personal communication.  
2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.  
2015 to 2017 England and Wales: NOMIS Mortality Statistics  
[www.nomisweb.co.uk/articles/983.aspx](http://www.nomisweb.co.uk/articles/983.aspx)



**Table 1.8 Age-standardised death rates per 100,000 from stroke (CBVD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 1969 to 2017**

[Back to Table of Contents](#)

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

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

**Source:** 1969 to 2009: England and Wales, Office for National Statistics (2016) Personal communication.  
 Scotland, General Register Office (2017) Personal communication.  
 Northern Ireland, Statistics and Research Agency (2017) Personal communication.  
 2010 to 2014: England and Wales, Office for National Statistics; Scotland, General Register Office for Scotland; Northern Ireland, Northern Ireland Statistics and Research Agency.  
 2015 to 2017 England and Wales: NOMIS Mortality Statistics  
[www.nomisweb.co.uk/articles/983.aspx](http://www.nomisweb.co.uk/articles/983.aspx)

**Table 1.9 Excess winter mortality for CVD and CHD by gender and age, England 2010/2011 to 2016/17**

[Back to Table of Contents](#)

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

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

**Source:** Office for National Statistics (2018). Personal communication.

**Table 1.10 Excess winter mortality for CVD and CHD by gender and age, Wales 2010/2011 to 2016/17**

[Back to Table of Contents](#)

		2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17	
		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
Men	Cardiovascular disease (ICD-10 I00-I99)														
	0-64	70	32	10	4	40	16	20	9	40	17.3	60	27.1	50	19.7
	65-74	30	9	50	17	50	17	50	17	100	34.5	30	10	10	3.8
	75-84	90	17	30	5	100	20	40	8	110	24	80	18.2	50	10.9
	85+	50	12	100	23	130	29	60	15	70	16.6	50	12.2	120	29.8
	All ages	240	16	180	13	320	21	170	12	330	22.8	230	16.1	220	15.9
Women	0-64	20	17	10	12	20	16	40	49	10	5.9	30	27.9	20	19.1
	65-74	20	11	0	2	40	29	10	7	60	39.8	50	34	20	14.4
	75-84	80	18	90	23	50	12	60	16	90	23.5	60	16.2	50	12.8
	85+	150	19	150	19	150	19	90	12	110	14.4	140	19.9	30	5.1
	All ages	270	18	250	18	270	18	200	15	270	19	280	21.1	120	9.3
All	0-64	90	27	20	7	50	16	60	20	50	13.8	90	27.3	60	19.6
	65-74	50	10	50	11	100	21	60	14	160	36.3	80	18.2	30	7.2
	75-84	170	17	120	13	150	16	100	11	210	23.8	140	17.3	100	11.7
	85+	210	17	240	21	280	23	150	13	190	15.2	190	17	150	14
	All ages	510	17	440	15	590	20	370	13	600	20.9	510	18.5	340	12.8
		2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17	
		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
Men	Coronary heart disease (ICD-10 I20-I25)														
	0-64	50	36	0	0	30	25	30	27	40	30	30	23	30	18.8
	65-74	30	20	40	24	50	24	20	15	70	40.8	30	17.5	3	1.3
	75-84	60	21	20	7	70	25	20	8	50	17.8	50	20.1	40	16.8
	85+	30	14	30	16	70	31	30	14	10	7.2	50	28.9	90	54.7
	All ages	170	21	100	12	210	26	110	14	170	22.3	160	22.1	160	21.5
Women	0-64	20	57	10	15	1	6	30	76	4	9.5	20	34	1	2.6
	65-74	10	14	0	1	20	27	-10		40	63	20	27.4	20	35.6
	75-84	40	19	30	21	20	13	30	17	50	33.3	30	20.3	20	16.3
	85+	40	12	50	19	100	38	10	2	20	8.2	20	9	20	10.5
	All ages	100	17	90	17	150	26	50	10	110	21.8	80	17.1	70	15
All	0-64	70	40	10	4	40	21	60	37	40	25	50	25.6	30	15.3
	65-74	40	18	40	17	70	25	20	7	110	46.5	50	20.2	20	9.5
	75-84	90	20	50	12	90	20	50	11	100	23.4	70	20.2	60	16.6
	85+	70	13	90	18	170	35	30	7	40	7.8	70	17.4	110	29.9
	All ages	280	20	190	14	360	26	160	12	280	22.1	250	20.1	230	19

**Notes:**

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

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

Low numbers of CVD deaths of each age-group in the winter months for Wales may mean that there are large percentage variations

in EWM between each year, which could be due to natural fluctuations rather than meaningful increases or decreases between each year.

The figures for individual age-groups may not sum up to the 'all ages' total due to rounding of figures.

The EWM index cannot be calculated where the number of EWD's is equal to zero or where there are a negative number of excess winter deaths.

ICD-10 codes for CVD I00-I99.

ICD-10 codes for CHD I20-I25.

**Source:**

Office for National Statistics (2018). Personal communication.

**Table 1.11 Excess winter mortality for CVD and CHD by gender and age, Scotland 2009/2010 to 2017/18**

[Back to Table of Contents](#)

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

**Notes:** Excess winter mortality calculation: winter deaths-average non-winter deaths.  
Excess winter mortality index calculation: (excess winter mortality / average non-winter deaths)\*100  
Low numbers of CVD deaths of each age-group in the winter months for Scotland may mean that there are large percentage variations in EWM between each year, which could be due to natural fluctuations rather than meaningful increases or decreases between each year.  
The figures for individual age-groups may not sum up to the 'all ages' total due to rounding of figures.  
The EWM index cannot be calculated where the number of EWD's is equal to zero or where there are a negative number of excess winter deaths.  
Please note that the figures for 2017/18 are preliminary and the combined totals of males and females may differ from those published.  
ICD-10 codes for CVD I00-I99.  
ICD-10 codes for CHD I20-I25.

**Source:** National Records of Scotland, Personal Communication (2018)  
<https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/deaths/winter-mortality>

**Table 1.12 Excess winter mortality for CVD and CHD by gender and age, Northern Ireland 2011/12 to 2017/18**

[Back to Table of Contents](#)

Cardiovascular disease (ICD-10 I00-I99)	2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18 (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
0-64	11	9.9	-9	-7.2	14	12.4	-14	-10.9	2	1.5	10	8.8		
65-74	17	12.9	18	14.0	4	3.0	15	12.2	14	11.2	50	42.9		
75-84	23	11.1	51	25.4	32	16.3	57	30.0	12	6.1	19	10.0		
85+	5	2.5	63	38.2	48	29.6	30	17.5	32	18.8	50	29.9		
<b>Men All ages</b>	<b>55</b>	<b>8.8</b>	<b>123</b>	<b>20.1</b>	<b>96</b>	<b>16.5</b>	<b>89</b>	<b>14.6</b>	<b>59</b>	<b>10.1</b>	<b>128</b>	<b>22.0</b>		
0-64	-5	-11.9	-2	-4.3	8	17.4	5	10.9	9	18.4	10	24.4		
65-74	10	15.2	4	5.7	3	3.9	26	40.2	33	53.2	18	28.5		
75-84	14	6.7	12	5.7	57	35.0	38	21.6	-21	-11.8	29	17.1		
85+	80	24.1	33	9.2	20	6.5	71	22.6	53	18.2	62	20.3		
<b>Women All ages</b>	<b>98</b>	<b>15.2</b>	<b>46</b>	<b>6.8</b>	<b>88</b>	<b>15.0</b>	<b>139</b>	<b>23.3</b>	<b>75</b>	<b>12.9</b>	<b>118</b>	<b>20.5</b>		
0-64	6	3.9	-11	-6.4	22	13.9	-9	-5.0	11	6.9	20	12.9		
65-74	26	13.7	22	11.1	6	3.3	41	21.7	47	25.1	67	37.9		
75-84	37	8.9	63	15.5	89	24.8	95	26.0	-9	-2.5	47	13.4		
85+	84	16.6	95	18.4	68	14.3	101	20.8	85	18.4	112	23.6		
<b>ALL All ages</b>	<b>153</b>	<b>12.1</b>	<b>169</b>	<b>13.2</b>	<b>184</b>	<b>15.8</b>	<b>228</b>	<b>18.9</b>	<b>134</b>	<b>11.5</b>	<b>246</b>	<b>21.2</b>	<b>370</b>	<b>32.2</b>
Coronary heart disease (ICD-10 I20-I25)	2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18 (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
0-64	7	8.7	-5	-5.4	-1	-1.3	-9	-11.3	0	0.0	3	4.2		
65-74	1	0.6	7	7.6	-1	-0.7	4	5.1	6	7.9	33	43.6		
75-84	22	18.9	36	31.3	30	28.8	18	16.7	6	6.0	6	5.7		
85+	-11	-11.5	37	46.5	32	44.7	20	23.4	14	16.6	14	18.9		
<b>Men All ages</b>	<b>18</b>	<b>4.9</b>	<b>75</b>	<b>20.6</b>	<b>60</b>	<b>18.4</b>	<b>33</b>	<b>9.3</b>	<b>25</b>	<b>8.0</b>	<b>56</b>	<b>17.1</b>		
0-64	-1	-5.3	-1	-5.0	4	17.1	-4	-15.6	10	50.0	-3	-15.8		
65-74	4	13.8	-2	-3.8	-1	-1.8	9	31.0	22	81.1	4	11.9		
75-84	-3	-2.8	15	18.1	26	35.7	7	8.8	-11	-14.9	15	23.6		
85+	52	50.5	-13	-9.9	2	1.3	25	22.0	18	19.4	15	14.9		
<b>Women All ages</b>	<b>53</b>	<b>21.9</b>	<b>-1</b>	<b>-0.2</b>	<b>30</b>	<b>12.8</b>	<b>37</b>	<b>15.2</b>	<b>39</b>	<b>18.6</b>	<b>30</b>	<b>14.2</b>		
0-64	6	5.9	-6	-5.3	3	2.6	-13	-12.2	10	12.0	0	0.0		
65-74	5	3.9	5	4.0	-1	-1.0	13	12.0	28	26.8	36	34.6		
75-84	19	9.4	51	25.8	55	31.6	25	13.3	-5	-3.1	21	12.2		
85+	45	21.7	18	7.9	33	17.7	44	22.6	32	18.1	29	16.6		
<b>ALL All ages</b>	<b>74</b>	<b>12.0</b>	<b>68</b>	<b>10.5</b>	<b>90</b>	<b>16.0</b>	<b>70</b>	<b>11.7</b>	<b>64</b>	<b>12.3</b>	<b>86</b>	<b>15.9</b>		

**Notes:**

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

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

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

ICD-10 codes for CVD I00-I99.

ICD-10 codes for CHD I20-I25.

**Source:**

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

**Table 1.13 Excess winter mortality for cardiovascular disease (CVD), by gender and age, England and Wales, 2007/08-2017/18**[Back to Table of Contents](#)

Men	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18 (P)
<b>0-64</b>											
Excess winter deaths	520	600	380	640	280	490	180	400	510	410	900
EWM Index (%)	11.9	14.5	9.1	16.6	7.7	13.6	4.9	11.6	14.1	11.2	26.6
<b>65-74</b>											
Excess winter deaths	670	930	780	500	600	580	230	800	640	570	1,100
EWM Index (%)	13.6	19.8	16.9	11.1	14.4	13.5	5.3	19	14.9	13.1	25.3
<b>75-84</b>											
Excess winter deaths	1,400	2,380	1,610	1,280	1,030	1,320	680	1,400	790	1,250	1,900
EWM Index (%)	15.1	27.7	19.6	16.5	14.0	17.7	9.4	19.8	11	18.5	28.4
<b>85+</b>											
Excess winter deaths	1,450	1,890	1,610	1,040	1,390	1,490	1,030	1,800	1,100	1,550	2,200
EWM Index (%)	20.6	26.6	22.5	14.7	20.6	21.0	15.1	25.9	15.7	22.2	31.3
<b>All Men</b>											
Excess winter deaths	4,040	5,790	4,370	3,460	3,310	3,870	2,100	4,500	3,040	3,780	6,100
EWM Index (%)	15.8	23.7	18.1	14.9	15.1	17.3	9.6	20.3	13.8	17.4	28.4
<b>Women</b>											
<b>0-64</b>											
Excess winter deaths	260	240	240	210	220	300	160	200	260	100	400
EWM Index (%)	15.3	14.7	15.1	14.0	15.6	20.4	11.6	16.3	17.4	7	25.5
<b>65-74</b>											
Excess winter deaths	390	380	400	320	230	300	240	500	270	360	500
EWM Index (%)	14.3	14.5	16.4	13.4	10.0	13.5	11.2	22.5	11.8	16.3	25.1
<b>75-84</b>											
Excess winter deaths	1,500	1,960	1,540	1,010	1,060	1,140	760	1,300	810	910	1,600
EWM Index (%)	17.2	24.4	20.4	14.2	16.2	17.7	12.7	22.2	14.4	16.5	29.5
<b>85+</b>											
Excess winter deaths	2,560	4,110	3,070	1,850	2,360	2,660	1,420	3,300	1,420	2,400	2,900
EWM Index (%)	17.9	29.8	22.5	14.4	19.5	21.4	12.2	28.4	12.3	21.9	27.3
<b>All Women</b>											
Excess winter deaths	4,700	6,680	5,240	3,390	3,860	4,390	2,580	5,400	2,750	3,770	5,400
EWM Index (%)	17.1	25.7	20.8	14.2	17.3	19.5	12.2	25.3	13.2	18.7	27.5
<b>ALL</b>											
<b>0-64</b>											
Excess winter deaths	770	840	620	850	500	780	340	600	770	510	1,300
EWM Index (%)	12.8	14.6	10.8	15.9	9.9	15.6	6.8	13	15.1	10	26.3
<b>65-74</b>											
Excess winter deaths	1,070	1,300	1,170	810	830	880	470	1,300	910	930	1,600
EWM Index (%)	13.9	17.9	16.7	11.9	12.9	13.5	7.3	20.2	13.8	14.2	25.2
<b>75-84</b>											
Excess winter deaths	2,900	4,330	3,150	2,300	2,090	2,450	1,430	2,800	1,600	2,160	3,400
EWM Index (%)	16.1	26.1	20.0	15.4	15.0	17.7	10.9	20.9	12.5	17.6	28.9
<b>85+</b>											
Excess winter deaths	4,010	6,000	4,670	2,890	3,750	4,140	2,450	5,200	2,520	3,950	5,100
EWM Index (%)	18.8	28.8	22.5	14.5	19.9	21.2	13.3	27.4	13.6	22	28.9
<b>All ages</b>											
Excess winter deaths	8,740	12,470	9,610	6,850	7,170	8,260	4,680	9,900	5,800	7,550	11,500
EWM Index (%)	16.5	24.7	19.5	14.6	16.2	18.4	10.9	22.7	13.5	18	28.0

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

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

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

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

ICD-10 codes for CVD I00-I99.

ICD-10 codes for CHD I20-I25.

**Source:** Figures for 2007/07 to 2016/17 from Office for National Statistics (2018). Personal communication.

Provisional figures for 2017/18 from

<https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/datasets/excesswintermortalityinenglandandwalesreferencetables>

**Table 1.14 Number of deaths and age-standardised death rates for heart and circulatory diseases (CVD), all ages by region and country, United Kingdom 2015/17**

[Back to Table of Contents](#)

	ALL AGES								
	Age standardised death rates for heart and circulatory diseases per 100,000			Total number of deaths from heart and circulatory disease 2015/17			Average number of annual deaths from heart and circulatory diseases for 2015/17		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	336.8	228.0	277.1	18,992	18,292	37,284	6,331	6,097	12,428
East of England	306.1	204.5	250.1	23,516	22,882	46,398	7,839	7,627	15,466
London	308.8	209.4	254.8	21,726	20,630	42,356	7,242	6,877	14,119
North East	354.7	242.6	292.7	11,222	10,935	22,157	3,741	3,645	7,386
North West	364.8	249.1	301.4	30,415	29,564	59,979	10,138	9,855	19,993
South East	299.5	208.0	249.3	33,279	34,956	68,235	11,093	11,652	22,745
South West	318.3	217.9	262.7	24,215	25,044	49,259	8,072	8,348	16,420
West Midlands	344.2	231.3	282.0	23,256	22,693	45,949	7,752	7,564	15,316
Yorkshire and the Humber	361.2	238.6	292.5	22,379	21,424	43,803	7,460	7,141	14,601
<b>England</b>	<b>329.2</b>	<b>223.6</b>	<b>271.1</b>	<b>209,000</b>	<b>206,420</b>	<b>415,420</b>	<b>69,667</b>	<b>68,807</b>	<b>138,473</b>
<b>Wales</b>	<b>360.6</b>	<b>245.1</b>	<b>298.0</b>	<b>14,368</b>	<b>13,961</b>	<b>28,329</b>	<b>4,789</b>	<b>4,654</b>	<b>9,443</b>
<b>Scotland</b>	<b>417.0</b>	<b>294.3</b>	<b>348.8</b>	<b>25,348</b>	<b>26,270</b>	<b>51,618</b>	<b>8,449</b>	<b>8,757</b>	<b>17,206</b>
<b>Northern Ireland</b>	<b>331.8</b>	<b>222.0</b>	<b>269.8</b>	<b>6,073</b>	<b>6,021</b>	<b>12,094</b>	<b>2,024</b>	<b>2,007</b>	<b>4,031</b>
<b>UK</b>	<b>337.9</b>	<b>230.6</b>	<b>278.8</b>	<b>254,789</b>	<b>252,672</b>	<b>507,461</b>	<b>84,930</b>	<b>84,224</b>	<b>169,154</b>

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

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

**Table 1.15 Number of deaths and age-standardised death rates for for heart and circulatory diseases (CVD), under 75, by region and country, United Kingdom 2015/17**

[Back to Table of Contents](#)

	UNDER 75								
	Age standardised death rates for heart and circulatory diseases per 100,000			Total number of deaths from heart and circulatory disease 2015/17			Average number of annual deaths from heart and circulatory diseases for 2015/17		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	105.2	48.2	76.2	6,558	3,119	9,677	2,186	1,040	3,226
East of England	92.0	40.1	65.3	7,287	3,359	10,646	2,429	1,120	3,549
London	105.4	46.0	74.4	8,321	3,862	12,183	2,774	1,287	4,061
North East	116.5	55.0	84.9	4,043	2,023	6,066	1,348	674	2,022
North West	122.2	57.9	89.4	11,220	5,554	16,774	3,740	1,851	5,591
South East	86.1	38.4	61.5	9,875	4,674	14,549	3,292	1,558	4,850
South West	91.4	39.4	64.6	7,024	3,218	10,242	2,341	1,073	3,414
West Midlands	110.4	50.0	79.6	8,011	3,795	11,806	2,670	1,265	3,935
Yorkshire and the Humber	115.8	54.1	84.2	7,909	3,871	11,780	2,636	1,290	3,927
England	103.2	46.7	74.2	70,248	33,475	103,723	23,416	11,158	34,574
Wales	122.9	55.9	88.5	5,212	2,499	7,711	1,737	833	2,570
Scotland	136.1	64.6	98.9	9,502	4,846	14,348	3,167	1,615	4,783
Northern Ireland	102.47	48.7	74.7	2,230	1,122	3,352	743	374	1,117
UK	107.0	48.7	77.1	87,192	41,942	129,134	29,064	13,981	43,045

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

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



**Table 1.16 Number of deaths and age-standardised death rates for coronary heart disease (CHD), all ages, by region and country, United Kingdom 2015/17**

[Back to Table of Contents](#)

	ALL AGES								
	Age standardised CHD death rates per 100,000			Total number of CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	158.5	71.7	110.2	9,233	5,666	14,899	3,078	1,889	4,966
East of England	140.4	64.1	97.7	10,998	7,044	18,042	3,666	2,348	6,014
London	143.6	67.1	101.0	10,355	6,473	16,828	3,452	2,158	5,609
North East	168.6	79.5	118.6	5,523	3,545	9,068	1,841	1,182	3,023
North West	175.2	83.4	124.2	15,167	9,729	24,896	5,056	3,243	8,299
South East	131.4	58.0	90.2	14,905	9,525	24,430	4,968	3,175	8,143
South West	144.7	63.4	98.9	11,202	7,144	18,346	3,734	2,381	6,115
West Midlands	163.9	74.0	113.7	11,409	7,128	18,537	3,803	2,376	6,179
Yorkshire and the Humber	180.6	84.1	126.1	11,494	7,473	18,967	3,831	2,491	6,322
England	153.9	70.4	107.2	100,286	63,727	164,013	33,429	21,242	54,671
Wales	175.5	81.3	123.4	7,212	4,551	11,763	2,404	1,517	3,921
Scotland	190.8	95.5	136.9	12,119	8,447	20,566	4,040	2,816	6,855
Northern Ireland	161.3	76.3	112.7	3,067	2,051	5,118	1,022	684	1,706
UK	158.2	73.2	110.6	122,684	78,776	201,460	40,895	26,259	67,153

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

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

**Table 1.17 Number of deaths and age-standardised death rates for coronary heart disease (CHD), under 75, by region and country, United Kingdom 2015/17**

[Back to Table of Contents](#)

	UNDER 75								
	Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2015/17			Average number of annual premature CHD deaths for 2015/17		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	61.5	19.2	40.0	3,837	1,245	5,082	1,279	415	1,694
East of England	51.1	14.7	32.4	4,049	1,231	5,280	1,350	410	1,760
London	60.0	18.8	38.5	4,686	1,533	6,219	1,562	511	2,073
North East	69.0	23.6	45.6	2,403	873	3,276	801	291	1,092
North West	73.9	25.4	49.1	6,797	2,431	9,228	2,266	810	3,076
South East	48.3	13.2	30.2	5,544	1,605	7,149	1,848	535	2,383
South West	52.4	14.1	32.7	4,031	1,156	5,187	1,344	385	1,729
West Midlands	65.9	20.2	42.6	4,772	1,528	6,300	1,591	509	2,100
Yorkshire and the Humber	69.3	22.4	45.3	4,734	1,601	6,335	1,578	534	2,112
<b>England</b>	<b>60.1</b>	<b>18.5</b>	<b>38.7</b>	<b>40,853</b>	<b>13,203</b>	<b>54,056</b>	<b>13,618</b>	<b>4,401</b>	<b>18,019</b>
<b>Wales</b>	<b>73.9</b>	<b>23.2</b>	<b>47.9</b>	<b>3,137</b>	<b>1,040</b>	<b>4,177</b>	<b>1,046</b>	<b>347</b>	<b>1,392</b>
<b>Scotland</b>	<b>80.3</b>	<b>27.5</b>	<b>52.8</b>	<b>5,631</b>	<b>2,067</b>	<b>7,698</b>	<b>1,877</b>	<b>689</b>	<b>2,566</b>
<b>Northern Ireland</b>	<b>61.8</b>	<b>20.6</b>	<b>40.5</b>	<b>1,343</b>	<b>472</b>	<b>1,815</b>	<b>448</b>	<b>157</b>	<b>605</b>
<b>UK</b>	<b>62.6</b>	<b>19.5</b>	<b>40.5</b>	<b>50,964</b>	<b>16,782</b>	<b>67,746</b>	<b>16,988</b>	<b>5,594</b>	<b>22,582</b>

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

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

**Table 1.18 Number of deaths and age-standardised death rates for stroke (CBVD), all ages, by region and country, United Kingdom 2015/17**

[Back to Table of Contents](#)

	ALL AGES								
	Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2015/17		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	62.7	57.3	59.9	3,425	4,605	8,030	1,142	1,535	2,677
East of England	60.0	52.9	56.2	4,533	5,932	10,465	1,511	1,977	3,488
London	58.6	48.3	53.0	4,040	4,730	8,770	1,347	1,577	2,923
North East	73.2	66.8	70.1	2,264	3,013	5,277	755	1,004	1,759
North West	67.6	61.8	64.7	5,461	7,360	12,821	1,820	2,453	4,274
South East	57.1	54.8	56.2	6,280	9,189	15,469	2,093	3,063	5,156
South West	64.8	62.5	63.9	4,850	7,228	12,078	1,617	2,409	4,026
West Midlands	63.5	59.1	61.4	4,176	5,814	9,990	1,392	1,938	3,330
Yorkshire and the Humber	69.3	63.6	66.3	4,137	5,734	9,871	1,379	1,911	3,290
England	63.1	58.0	60.6	39,166	53,605	92,771	13,055	17,868	30,924
Wales	64.5	64.7	65.5	2,503	3,713	6,216	834	1,238	2,072
Scotland	87.2	82.1	84.8	5,036	7,335	12,371	1,679	2,445	4,124
Northern Ireland	73.4	62.7	67.2	1,277	1,701	2,978	426	567	993
UK	65.3	60.4	62.9	47,982	66,354	114,336	15,994	22,118	38,112

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

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

**Table 1.19 Number of deaths and age-standardised death rates for stroke (CBVD), under 75, by region and country, United Kingdom 2015/17**

[Back to Table of Contents](#)

	UNDER 75								
	Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2015/17			Average number of annual premature stroke (CBVD) deaths for 2015/17		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	14.5	11.4	13.0	905	738	1,643	302	246	548
East of England	14.1	9.9	11.9	1,115	824	1,939	372	275	646
London	16.3	11.0	13.5	1,264	934	2,198	421	311	733
North East	18.4	14.0	16.2	637	512	1,149	212	171	383
North West	17.3	13.5	15.4	1,583	1,292	2,875	528	431	958
South East	12.3	9.8	11.0	1,410	1,195	2,605	470	398	868
South West	13.1	10.2	11.6	1,011	836	1,847	337	279	616
West Midlands	15.3	11.6	13.4	1,101	876	1,977	367	292	659
Yorkshire and the Humber	16.0	12.8	14.4	1,091	915	2,006	364	305	669
<b>England</b>	<b>14.9</b>	<b>11.3</b>	<b>13.1</b>	<b>10,117</b>	<b>8,122</b>	<b>18,239</b>	<b>3,372</b>	<b>2,707</b>	<b>6,080</b>
<b>Wales</b>	<b>16.3</b>	<b>13.1</b>	<b>14.6</b>	<b>692</b>	<b>585</b>	<b>1,277</b>	<b>231</b>	<b>195</b>	<b>426</b>
<b>Scotland</b>	<b>20.2</b>	<b>15.5</b>	<b>17.7</b>	<b>1,397</b>	<b>1,158</b>	<b>2,555</b>	<b>466</b>	<b>386</b>	<b>852</b>
<b>Northern Ireland</b>	<b>15.8</b>	<b>13.0</b>	<b>14.3</b>	<b>342</b>	<b>298</b>	<b>640</b>	<b>114</b>	<b>99</b>	<b>213</b>
<b>UK</b>	<b>15.5</b>	<b>11.8</b>	<b>13.6</b>	<b>12,548</b>	<b>10,163</b>	<b>22,711</b>	<b>4,183</b>	<b>3,388</b>	<b>7,570</b>

Notes:

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

Source:

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

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

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

**Table 1.20 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
					Age standardised CVD death rates per 100,000			Total number of CVD deaths 2015/17			Average number of annual CVD deaths 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N	
E06000032	Luton	Bedfordshire	East of England	ENG				598	484	1,082	199	161	361		40	
E06000055	Bedford	Bedfordshire	East of England	ENG				549	514	1,063	183	171	354		154	
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG				771	651	1,422	257	217	474		264	
E06000036	Bracknell Forest	Berkshire	South East	ENG				275	250	525	92	83	175		287	
E06000037	West Berkshire	Berkshire	South East	ENG				462	383	845	154	128	282		291	
E06000038	Reading	Berkshire	South East	ENG				425	379	804	142	126	268		143	
E06000039	Slough	Berkshire	South East	ENG				351	318	669	117	106	223		79	
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG				447	470	917	149	157	306		306	
E06000041	Wokingham	Berkshire	South East	ENG				466	375	841	155	125	280		325	
E06000023	Bristol, City of	Bristol	South West	ENG				1,172	1,121	2,293	391	374	764		77	
E06000042	Milton Keynes	Buckinghamshire	South East	ENG				649	546	1,195	216	182	398		181	
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG				527	522	1,049	176	174	350		283	
E07000005	Chiltern	Buckinghamshire	South East	ENG				315	287	602	105	96	201		324	
E07000006	South Bucks	Buckinghamshire	South East	ENG				257	282	539	86	94	180		302	
E07000007	Wycombe	Buckinghamshire	South East	ENG				561	467	1,028	187	156	343		293	
E06000031	Peterborough	Cambridgeshire	East of England	ENG				620	521	1,141	207	174	380		58	
E07000008	Cambridge	Cambridgeshire	East of England	ENG				345	376	721	115	125	240		227	
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG				307	291	598	102	97	199		255	
E07000010	Fenland	Cambridgeshire	East of England	ENG				448	395	843	149	132	281		55	
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG				562	503	1,065	187	168	355		265	
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG				486	447	933	162	149	311		314	
E06000006	Halton	Cheshire	North West	ENG				438	436	874	146	145	291		36	
E06000007	Warrington	Cheshire	North West	ENG				770	678	1,448	257	226	483		176	
E06000049	Cheshire East	Cheshire	North West	ENG				1,481	1,423	2,904	494	474	968		241	
E06000050	Cheshire West and Chester	Cheshire	North West	ENG				1,301	1,238	2,539	434	413	846		192	
E06000052	Cornwall and Isles of Scilly	Cornwall	South West	ENG				2,693	2,704	5,397	898	901	1,799		68	
E06000001	Hartlepool	County Durham	North East	ENG				405	350	755	135	117	252		32	
E06000004	Stockton-on-Tees	County Durham	North East	ENG				714	694	1,408	238	231	469		130	
E06000005	Darlington	County Durham	North East	ENG				392	397	789	131	132	263		122	
E06000047	County Durham	County Durham	North East	ENG				2,104	2,048	4,152	701	683	1,384		81	
E07000026	Allerdale	Cumbria	North West	ENG				461	471	932	154	157	311		114	
E07000027	Barrow-in-Furness	Cumbria	North West	ENG				316	290	606	105	97	202		44	
E07000028	Carlisle	Cumbria	North West	ENG				481	495	976	160	165	325		112	
E07000029	Copeland	Cumbria	North West	ENG				313	280	593	104	93	198		63	
E07000030	Eden	Cumbria	North West	ENG				262	227	489	87	76	163		182	
E07000031	South Lakeland	Cumbria	North West	ENG				487	560	1,047	162	187	349		251	
E06000015	Derby	Derbyshire	East Midlands	ENG				902	835	1,737	301	278	579		84	
E07000032	Amber Valley	Derbyshire	East Midlands	ENG				502	499	1,001	167	166	334		162	
E07000033	Bolsover	Derbyshire	East Midlands	ENG				324	298	622	108	99	207		61	
E07000034	Chesterfield	Derbyshire	East Midlands	ENG				507	413	920	169	138	307		85	
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG				314	303	617	105	101	206		258	
E07000036	Erewash	Derbyshire	East Midlands	ENG				450	447	897	150	149	299		149	
E07000037	High Peak	Derbyshire	East Midlands	ENG				313	324	637	104	108	212		198	
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG				450	411	861	150	137	287		190	
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG				319	320	639	106	107	213		230	
E06000026	Plymouth	Devon	South West	ENG				931	959	1,890	310	320	630		82	
E06000027	Torbay	Devon	South West	ENG				718	687	1,405	239	229	468		46	
E07000040	East Devon	Devon	South West	ENG				702	801	1,503	234	267	501		246	
E07000041	Exeter	Devon	South West	ENG				391	370	761	130	123	254		165	
E07000042	Mid Devon	Devon	South West	ENG				345	294	639	115	98	213		156	
E07000043	North Devon	Devon	South West	ENG				490	502	992	163	167	331		127	
E07000044	South Hams	Devon	South West	ENG				405	382	787	135	127	262		209	
E07000045	Teignbridge	Devon	South West	ENG				624	596	1,220	208	199	407		177	
E07000046	Torridge	Devon	South West	ENG				361	365	726	120	122	242		67	
E07000047	West Devon	Devon	South West	ENG				261	243	504	87	81	168		141	
E06000028	Bournemouth	Dorset	South West	ENG				718	776	1,494	239	259	498		117	
E06000029	Poole	Dorset	South West	ENG				576	645	1,221	192	215	407		208	
E07000048	Christchurch	Dorset	South West	ENG				297	283	580	99	94	193		259	
E07000049	East Dorset	Dorset	South West	ENG				461	482	943	154	161	314		303	

**Table 1.20 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
					Age standardised CVD death rates per 100,000			Total number of CVD deaths 2015/17			Average number of annual CVD deaths 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1 = most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N	
E07000050	North Dorset	Dorset	South West	ENG				281	300	581	94	100	194		210	
E07000051	Purbeck	Dorset	South West	ENG				224	214	438	75	71	146		211	
E07000052	West Dorset	Dorset	South West	ENG				555	589	1,144	185	196	381		207	
E07000053	Weymouth and Portland	Dorset	South West	ENG				304	300	604	101	100	201		103	
E06000043	Brighton and Hove	East Sussex	South East	ENG				780	808	1,588	260	269	529		109	
E07000061	Eastbourne	East Sussex	South East	ENG				475	580	1,055	158	193	352		120	
E07000062	Hastings	East Sussex	South East	ENG				475	545	1,020	158	182	340		20	
E07000063	Lewes	East Sussex	South East	ENG				440	485	925	147	162	308		201	
E07000064	Rother	East Sussex	South East	ENG				570	772	1,342	190	257	447		148	
E07000065	Wealden	East Sussex	South East	ENG				667	826	1,493	222	275	498		276	
E06000033	Southend-on-Sea	Essex	East of England	ENG				702	689	1,391	234	230	464		105	
E06000034	Thurrock	Essex	East of England	ENG				514	463	977	171	154	326		111	
E07000066	Basildon	Essex	East of England	ENG				624	561	1,185	208	187	395		113	
E07000067	Braintree	Essex	East of England	ENG				540	525	1,065	180	175	355		197	
E07000068	Brentwood	Essex	East of England	ENG				301	290	591	100	97	197		294	
E07000069	Castle Point	Essex	East of England	ENG				403	375	778	134	125	259		187	
E07000070	Chelmsford	Essex	East of England	ENG				558	532	1,090	186	177	363		261	
E07000071	Colchester	Essex	East of England	ENG				572	570	1,142	191	190	381		185	
E07000072	Epping Forest	Essex	East of England	ENG				430	444	874	143	148	291		199	
E07000073	Harlow	Essex	East of England	ENG				287	241	528	96	80	176		71	
E07000074	Maldon	Essex	East of England	ENG				287	210	497	96	70	166		204	
E07000075	Rochford	Essex	East of England	ENG				323	255	578	108	85	193		285	
E07000076	Tendring	Essex	East of England	ENG				821	786	1,607	274	262	536		49	
E07000077	Uttlesford	Essex	East of England	ENG				283	246	529	94	82	176		297	
E06000025	South Gloucestershire	Gloucestershire	South West	ENG				862	754	1,616	287	251	539		274	
E07000078	Cheltenham	Gloucestershire	South West	ENG				415	425	840	138	142	280		228	
E07000079	Cotswold	Gloucestershire	South West	ENG				363	353	716	121	118	239		267	
E07000080	Forest of Dean	Gloucestershire	South West	ENG				387	397	784	129	132	261		155	
E07000081	Gloucester	Gloucestershire	South West	ENG				498	392	890	166	131	297		139	
E07000082	Stroud	Gloucestershire	South West	ENG				468	435	903	156	145	301		281	
E07000083	Tewkesbury	Gloucestershire	South West	ENG				363	322	685	121	107	228		262	
E09000001	City of London	Greater London	London	ENG				23	15	31	8	5	10		226	
E09000002	Barking and Dagenham	Greater London	London	ENG				480	427	907	160	142	302		3	
E09000003	Barnet	Greater London	London	ENG				1,097	1,222	2,319	366	407	773		157	
E09000004	Bexley	Greater London	London	ENG				766	779	1,545	255	260	515		195	
E09000005	Brent	Greater London	London	ENG				902	788	1,690	301	263	563		39	
E09000006	Bromley	Greater London	London	ENG				1,019	1,003	2,022	340	334	674		220	
E09000007	Camden	Greater London	London	ENG				455	356	811	152	119	270		69	
E09000008	Croydon	Greater London	London	ENG				961	912	1,873	320	304	624		91	
E09000009	Ealing	Greater London	London	ENG				894	740	1,634	298	247	545		87	
E09000010	Enfield	Greater London	London	ENG				957	992	1,949	319	331	650		53	
E09000011	Greenwich	Greater London	London	ENG				616	496	1,112	205	165	371		50	
E09000012	Hackney	Greater London	London	ENG				492	383	875	164	128	292		2	
E09000013	Hammersmith and Fulham	Greater London	London	ENG				372	288	660	124	96	220		76	
E09000014	Haringey	Greater London	London	ENG				542	504	1,046	181	168	349		21	
E09000015	Harrow	Greater London	London	ENG				669	724	1,393	223	241	464		213	
E09000016	Havering	Greater London	London	ENG				862	860	1,722	287	287	574		166	
E09000017	Hillingdon	Greater London	London	ENG				809	817	1,626	270	272	542		153	
E09000018	Hounslow	Greater London	London	ENG				680	541	1,221	227	180	407		86	
E09000019	Islington	Greater London	London	ENG				446	403	849	149	134	283		13	
E09000020	Kensington and Chelsea	Greater London	London	ENG				323	283	606	108	94	202		99	
E09000021	Kingston upon Thames	Greater London	London	ENG				455	457	912	152	152	304		278	
E09000022	Lambeth	Greater London	London	ENG				616	533	1,149	205	178	383		22	
E09000023	Lewisham	Greater London	London	ENG				578	523	1,101	193	174	367		26	
E09000024	Merton	Greater London	London	ENG				505	469	974	168	156	325		212	
E09000025	Newham	Greater London	London	ENG				592	498	1,090	197	166	363		8	
E09000026	Redbridge	Greater London	London	ENG				740	726	1,466	247	242	489		119	
E09000027	Richmond upon Thames	Greater London	London	ENG				466	446	912	155	149	304		296	
E09000028	Southwark	Greater London	London	ENG				560	438	998	187	146	333		23	

**Table 1.20 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
					Age standardised CVD death rates per 100,000			Total number of CVD deaths 2015/17			Average number of annual CVD deaths 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N	
E09000029	Sutton	Greater London	London	ENG				558	537	1,095	186	179	365		217	
E09000030	Tower Hamlets	Greater London	London	ENG				459	368	827	153	123	276		6	
E09000031	Waltham Forest	Greater London	London	ENG				586	554	1,140	195	185	380		15	
E09000032	Wandsworth	Greater London	London	ENG				613	598	1,211	204	199	404		147	
E09000033	Westminster	Greater London	London	ENG				504	432	936	168	144	312		43	
E08000001	Bolton	Greater Manchester	North West	ENG				1,022	880	1,902	341	293	634		64	
E08000002	Bury	Greater Manchester	North West	ENG				712	662	1,374	237	221	458		132	
E08000003	Manchester	Greater Manchester	North West	ENG				1,482	1,322	2,804	494	441	935		1	
E08000004	Oldham	Greater Manchester	North West	ENG				878	738	1,616	293	246	539		51	
E08000005	Rochdale	Greater Manchester	North West	ENG				850	744	1,594	283	248	531		25	
E08000006	Salford	Greater Manchester	North West	ENG				840	737	1,577	280	246	526		27	
E08000007	Stockport	Greater Manchester	North West	ENG				1,100	1,066	2,166	367	355	722		178	
E08000008	Tameside	Greater Manchester	North West	ENG				908	796	1,704	303	265	568		34	
E08000009	Trafford	Greater Manchester	North West	ENG				836	782	1,618	279	261	539		222	
E08000010	Wigan	Greater Manchester	North West	ENG				1,357	1,139	2,496	452	380	832		107	
E06000044	Portsmouth	Hampshire	South East	ENG				685	664	1,349	228	221	450		57	
E06000045	Southampton	Hampshire	South East	ENG				718	685	1,403	239	228	468		54	
E07000084	Basingstoke and Deane	Hampshire	South East	ENG				520	460	980	173	153	327		275	
E07000085	East Hampshire	Hampshire	South East	ENG				381	434	815	127	145	272		308	
E07000086	Eastleigh	Hampshire	South East	ENG				410	441	851	137	147	284		298	
E07000087	Fareham	Hampshire	South East	ENG				439	442	881	146	147	294		312	
E07000088	Gosport	Hampshire	South East	ENG				325	301	626	108	100	209		131	
E07000089	Hart	Hampshire	South East	ENG				223	230	453	74	77	151		326	
E07000090	Havant	Hampshire	South East	ENG				534	511	1,045	178	170	348		142	
E07000091	New Forest	Hampshire	South East	ENG				901	915	1,816	300	305	605		257	
E07000092	Rushmoor	Hampshire	South East	ENG				233	250	483	78	83	161		205	
E07000093	Test Valley	Hampshire	South East	ENG				446	418	864	149	139	288		286	
E07000094	Winchester	Hampshire	South East	ENG				411	444	855	137	148	285		307	
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG				879	959	1,838	293	320	613		126	
E07000095	Broxbourne	Hertfordshire	East of England	ENG				297	284	581	99	95	194		171	
E07000096	Dacorum	Hertfordshire	East of England	ENG				477	450	927	159	150	309		260	
E07000098	Hertsmere	Hertfordshire	East of England	ENG				339	351	690	113	117	230		247	
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG				425	474	899	142	158	300		271	
E07000102	Three Rivers	Hertfordshire	East of England	ENG				278	349	627	93	116	209		300	
E07000103	Watford	Hertfordshire	East of England	ENG				284	293	577	95	98	192		194	
E07000240	St Albans	Hertfordshire	East of England	ENG				427	419	846	142	140	282		319	
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG				353	365	718	118	122	239		235	
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG				420	416	836	140	139	279		315	
E07000243	Stevenage	Hertfordshire	East of England	ENG				281	251	532	94	84	177		137	
E06000046	Isle of Wight	Isle of Wight	South East	ENG				894	1,092	1,986	298	364	662		83	
E06000035	Medway	Kent	South East	ENG				782	706	1,488	261	235	496		121	
E07000105	Ashford	Kent	South East	ENG				401	407	808	134	136	269		173	
E07000106	Canterbury	Kent	South East	ENG				636	681	1,317	212	227	439		183	
E07000107	Dartford	Kent	South East	ENG				315	290	605	105	97	202		170	
E07000108	Dover	Kent	South East	ENG				501	511	1,012	167	170	337		116	
E07000109	Gravesham	Kent	South East	ENG				365	306	671	122	102	224		124	
E07000110	Maidstone	Kent	South East	ENG				533	517	1,050	178	172	350		206	
E07000111	Sevenoaks	Kent	South East	ENG				399	423	822	133	141	274		272	
E07000112	Shepway	Kent	South East	ENG				467	467	934	156	156	311		104	
E07000113	Swale	Kent	South East	ENG				430	468	898	143	156	299		88	
E07000114	Thanet	Kent	South East	ENG				643	691	1,334	214	230	445		35	
E07000115	Tonbridge and Malling	Kent	South East	ENG				423	337	760	141	112	253		277	
E07000116	Tunbridge Wells	Kent	South East	ENG				358	440	798	119	147	266		279	
E06000008	Blackburn with Darwen	Lancashire	North West	ENG				519	480	999	173	160	333		24	
E06000009	Blackpool	Lancashire	North West	ENG				741	724	1,465	247	241	488		4	
E07000117	Burnley	Lancashire	North West	ENG				359	282	641	120	94	214		17	
E07000118	Chorley	Lancashire	North West	ENG				421	393	814	140	131	271		186	
E07000119	Fylde	Lancashire	North West	ENG				411	404	815	137	135	272		218	
E07000120	Hyndburn	Lancashire	North West	ENG				337	289	626	112	96	209		28	

**Table 1.20 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
					Age standardised CVD death rates per 100,000			Total number of CVD deaths 2015/17			Average number of annual CVD deaths 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N	
E07000121	Lancaster	Lancashire	North West	ENG				565	551	1,116	188	184	372		125	
E07000122	Pendle	Lancashire	North West	ENG				370	342	712	123	114	237		42	
E07000123	Preston	Lancashire	North West	ENG				502	449	951	167	150	317		72	
E07000124	Ribble Valley	Lancashire	North West	ENG				245	237	482	82	79	161		290	
E07000125	Rossendale	Lancashire	North West	ENG				262	257	519	87	86	173		98	
E07000126	South Ribble	Lancashire	North West	ENG				425	359	784	142	120	261		234	
E07000127	West Lancashire	Lancashire	North West	ENG				453	453	906	151	151	302		164	
E07000128	Wyre	Lancashire	North West	ENG				587	551	1,138	196	184	379		167	
E06000016	Leicester	Leicestershire	East Midlands	ENG				1,117	938	2,055	372	313	685		14	
E07000129	Blaby	Leicestershire	East Midlands	ENG				358	294	652	119	98	217		288	
E07000130	Charnwood	Leicestershire	East Midlands	ENG				574	559	1,133	191	186	378		237	
E07000131	Harborough	Leicestershire	East Midlands	ENG				323	270	593	108	90	198		311	
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG				409	393	802	136	131	267		248	
E07000133	Melton	Leicestershire	East Midlands	ENG				178	171	349	59	57	116		236	
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG				363	332	695	121	111	232		214	
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG				227	246	473	76	82	158		249	
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				748	630	1,378	249	210	459		65	
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				731	645	1,376	244	215	459		135	
E07000136	Boston	Lincolnshire	East Midlands	ENG				333	311	644	111	104	215		66	
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG				838	734	1,572	279	245	524		33	
E07000138	Lincoln	Lincolnshire	East Midlands	ENG				380	356	736	127	119	245		45	
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG				468	396	864	156	132	288		266	
E07000140	South Holland	Lincolnshire	East Midlands	ENG				450	401	851	150	134	284		134	
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG				567	577	1,144	189	192	381		223	
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG				441	361	802	147	120	267		152	
E08000011	Knowsley	Merseyside	North West	ENG				540	512	1,052	180	171	351		5	
E08000012	Liverpool	Merseyside	North West	ENG				1,633	1,271	2,904	544	424	968		7	
E08000013	St. Helens	Merseyside	North West	ENG				710	643	1,353	237	214	451		52	
E08000014	Sefton	Merseyside	North West	ENG				1,133	1,086	2,219	378	362	740		102	
E08000015	Wirral	Merseyside	North West	ENG				1,282	1,256	2,538	427	419	846		106	
E07000143	Breckland	Norfolk	East of England	ENG				594	570	1,164	198	190	388		129	
E07000144	Broadland	Norfolk	East of England	ENG				570	591	1,161	190	197	387		273	
E07000145	Great Yarmouth	Norfolk	East of England	ENG				500	408	908	167	136	303		29	
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG				723	663	1,386	241	221	462		89	
E07000147	North Norfolk	Norfolk	East of England	ENG				611	573	1,184	204	191	395		93	
E07000148	Norwich	Norfolk	East of England	ENG				456	427	883	152	142	294		47	
E07000149	South Norfolk	Norfolk	East of England	ENG				559	533	1,092	186	178	364		229	
E07000150	Corby	Northamptonshire	East Midlands	ENG				203	189	392	68	63	131		75	
E07000151	Daventry	Northamptonshire	East Midlands	ENG				280	272	552	93	91	184		238	
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG				321	273	594	107	91	198		221	
E07000153	Kettering	Northamptonshire	East Midlands	ENG				339	293	632	113	98	211		168	
E07000154	Northampton	Northamptonshire	East Midlands	ENG				710	624	1,334	237	208	445		108	
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG				286	254	540	95	85	180		317	
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG				274	247	521	91	82	174		133	
E06000057	Northumberland	Northumberland	North East	ENG				1,372	1,288	2,660	457	429	887		145	
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG				957	876	1,833	319	292	611		10	
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG				462	396	858	154	132	286		70	
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG				458	429	887	153	143	296		115	
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG				441	417	858	147	139	286		219	
E07000173	Gedling	Nottinghamshire	East Midlands	ENG				457	462	919	152	154	306		202	
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG				457	380	837	152	127	279		59	
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG				445	435	880	148	145	293		158	
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG				421	407	828	140	136	276		318	
E07000177	Cherwell	Oxfordshire	South East	ENG				426	399	825	142	133	275		256	
E07000178	Oxford	Oxfordshire	South East	ENG				311	356	667	104	119	222		169	
E07000179	South Oxfordshire	Oxfordshire	South East	ENG				442	404	846	147	135	282		309	
E07000180	Vale of White Horse	Oxfordshire	South East	ENG				375	386	761	125	129	254		310	
E07000181	West Oxfordshire	Oxfordshire	South East	ENG				354	369	723	118	123	241		316	
E06000017	Rutland	Rutland	East Midlands	ENG				139	149	288	46	50	96		299	



**Table 1.20 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
					Age standardised CVD death rates per 100,000			Total number of CVD deaths 2015/17			Average number of annual CVD deaths 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N	
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG				563	511	1,074	188	170	358		97	
E06000051	Shropshire	Shropshire	West Midlands	ENG				1,359	1,324	2,683	453	441	894		175	
E06000022	Bath and North East Somerset	Somerset	South West	ENG				616	614	1,230	205	205	410		268	
E06000024	North Somerset	Somerset	South West	ENG				842	835	1,677	281	278	559		224	
E07000187	Mendip	Somerset	South West	ENG				449	457	906	150	152	302		160	
E07000188	Sedgemoor	Somerset	South West	ENG				506	466	972	169	155	324		146	
E07000189	South Somerset	Somerset	South West	ENG				743	672	1,415	248	224	472		180	
E07000190	Taunton Deane	Somerset	South West	ENG				542	510	1,052	181	170	351		193	
E07000191	West Somerset	Somerset	South West	ENG				187	219	406	62	73	135		56	
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG				966	781	1,747	322	260	582		18	
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG				388	355	743	129	118	248		128	
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG				415	431	846	138	144	282		163	
E07000194	Lichfield	Staffordshire	West Midlands	ENG				430	408	838	143	136	279		252	
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG				475	453	928	158	151	309		161	
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG				503	489	992	168	163	331		253	
E07000197	Stafford	Staffordshire	West Midlands	ENG				505	507	1,012	168	169	337		243	
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG				408	437	845	136	146	282		203	
E07000199	Tamworth	Staffordshire	West Midlands	ENG				261	244	505	87	81	168		144	
E07000200	Babergh	Suffolk	East of England	ENG				374	379	753	125	126	251		200	
E07000201	Forest Heath	Suffolk	East of England	ENG				214	195	409	71	65	136		140	
E07000202	Ipswich	Suffolk	East of England	ENG				489	423	912	163	141	304		74	
E07000203	Mid Suffolk	Suffolk	East of England	ENG				352	364	716	117	121	239		239	
E07000204	St Edmundsbury	Suffolk	East of England	ENG				438	459	897	146	153	299		196	
E07000205	Suffolk Coastal	Suffolk	East of England	ENG				542	558	1,100	181	186	367		240	
E07000206	Waveney	Suffolk	East of England	ENG				608	619	1,227	203	206	409		95	
E07000207	Elmbridge	Surrey	South East	ENG				441	478	919	147	159	306		322	
E07000208	Epsom and Ewell	Surrey	South East	ENG				228	212	440	76	71	147		313	
E07000209	Guildford	Surrey	South East	ENG				399	434	833	133	145	278		304	
E07000210	Mole Valley	Surrey	South East	ENG				336	314	650	112	105	217		305	
E07000211	Reigate and Banstead	Surrey	South East	ENG				515	510	1,025	172	170	342		292	
E07000212	Runnymede	Surrey	South East	ENG				304	280	584	101	93	195		280	
E07000213	Spelthorne	Surrey	South East	ENG				352	335	687	117	112	229		233	
E07000214	Surrey Heath	Surrey	South East	ENG				274	261	535	91	87	178		320	
E07000215	Tandridge	Surrey	South East	ENG				293	279	572	98	93	191		284	
E07000216	Waverley	Surrey	South East	ENG				424	481	905	141	160	302		323	
E07000217	Woking	Surrey	South East	ENG				286	305	591	95	102	197		301	
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG				928	778	1,706	309	259	569		92	
E08000022	North Tyneside	Tyne & Wear	North East	ENG				816	793	1,609	272	264	536		138	
E08000023	South Tyneside	Tyne & Wear	North East	ENG				566	576	1,142	189	192	381		31	
E08000024	Sunderland	Tyne & Wear	North East	ENG				1,047	956	2,003	349	319	668		38	
E08000037	Gateshead	Tyne & Wear	North East	ENG				877	801	1,678	292	267	559		80	
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG				289	232	521	96	77	174		179	
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG				468	435	903	156	145	301		110	
E07000220	Rugby	Warwickshire	West Midlands	ENG				381	345	726	127	115	242		244	
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG				500	474	974	167	158	325		263	
E07000222	Warwick	Warwickshire	West Midlands	ENG				485	443	928	162	148	309		269	
E08000025	Birmingham	West Midlands	West Midlands	ENG				3,386	3,093	6,479	1,129	1,031	2,160		11	
E08000026	Coventry	West Midlands	West Midlands	ENG				1,102	975	2,077	367	325	692		60	
E08000027	Dudley	West Midlands	West Midlands	ENG				1,198	1,198	2,396	399	399	799		118	
E08000028	Sandwell	West Midlands	West Midlands	ENG				1,152	1,037	2,189	384	346	730		12	
E08000029	Solihull	West Midlands	West Midlands	ENG				804	706	1,510	268	235	503		216	
E08000030	Walsall	West Midlands	West Midlands	ENG				1,155	1,005	2,160	385	335	720		41	
E08000031	Wolverhampton	West Midlands	West Midlands	ENG				1,083	995	2,078	361	332	693		19	
E07000223	Adur	West Sussex	South East	ENG				283	301	584	94	100	195		150	
E07000224	Arun	West Sussex	South East	ENG				895	833	1,728	298	278	576		174	
E07000225	Chichester	West Sussex	South East	ENG				569	540	1,109	190	180	370		231	
E07000226	Crawley	West Sussex	South East	ENG				293	274	567	98	91	189		151	
E07000227	Horsham	West Sussex	South East	ENG				498	506	1,004	166	169	335		295	
E07000228	Mid Sussex	West Sussex	South East	ENG				504	503	1,007	168	168	336		321	

**Table 1.20 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES										ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
					Age standardised CVD death rates per 100,000			Total number of CVD deaths 2015/17			Average number of annual CVD deaths 2015/17					
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
E07000229	Worthing	West Sussex	South East	ENG				509	558	1,067	170	186	356			
E06000030	Swindon	Wiltshire	South West	ENG				678	601	1,279	226	200	426			
E06000054	Wiltshire	Wiltshire	South West	ENG				1,810	1,802	3,612	603	601	1,204			
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG				385	354	739	128	118	246			
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG				364	407	771	121	136	257			
E07000236	Redditch	Worcestershire	West Midlands	ENG				265	224	489	88	75	163			
E07000237	Worcester	Worcestershire	West Midlands	ENG				357	309	666	119	103	222			
E07000238	Wychavon	Worcestershire	West Midlands	ENG				506	428	934	169	143	311			
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG				433	403	836	144	134	279			
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				1,024	922	1,946	341	307	649			
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				1,631	1,546	3,177	544	515	1,059			
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG				581	544	1,125	194	181	375			
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG				668	595	1,263	223	198	421			
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				734	728	1,462	245	243	487			
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				241	294	535	80	98	178			
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				389	347	736	130	116	245			
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				650	671	1,321	217	224	440			
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				208	175	383	69	58	128			
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				289	250	539	96	83	180			
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				658	706	1,364	219	235	455			
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				329	314	643	110	105	214			
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				958	856	1,814	319	285	605			
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				1,158	1,029	2,187	386	343	729			
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				1,040	940	1,980	347	313	660			
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				1,981	1,907	3,888	660	636	1,296			
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				1,901	1,822	3,723	634	607	1,241			
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				839	758	1,597	280	253	532			
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				1,545	1,499	3,044	515	500	1,015			
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				2,784	2,494	5,278	928	831	1,759			
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				1,314	1,151	2,465	438	384	822			
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	293.4	188.1	230.8	397	385	782	132	128	261	1		
N09000002	Armagh City, Banbridge & Craigavon		Northern Ireland	NI	303.4	201.0	246.1	599	555	1,154	200	185	385	6		
N09000003	Belfast		Northern Ireland	NI	326.9	217.5	265.6	1,054	1,110	2,164	351	370	721	10		
N09000004	Causeway Coast & Glens		Northern Ireland	NI	303.3	207.2	250.3	467	448	915	156	149	305	8		
N09000005	Derry City & Strabane		Northern Ireland	NI	331.9	208.0	260.6	438	360	798	146	120	266	9		
N09000006	Fermanagh & Omagh		Northern Ireland	NI	303.2	194.4	244.1	358	322	680	119	107	227	4		
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	292.7	188.6	232.3	422	416	838	141	139	279	2		
N09000008	Mid & East Antrim		Northern Ireland	NI	312.1	197.2	249.3	488	460	948	163	153	316	7		
N09000009	Mid Ulster		Northern Ireland	NI	313.7	228.3	266.7	394	410	804	131	137	268	11		
N09000010	Newry, Mourne & Down		Northern Ireland	NI	297.1	201.7	245.4	500	475	975	167	158	325	5		
N09000011	Ards & North Down		Northern Ireland	NI	301.7	197.3	239.8	555	569	1,124	185	190	375	3		
S12000005	Clackmannanshire		Scotland	SCO	344.4	261.2	302.0	211	204	415	70	68	138	13		
S12000006	Dumfries & Galloway		Scotland	SCO	371.9	257.7	308.7	841	799	1,640	280	266	547	16		
S12000008	East Ayrshire		Scotland	SCO	428.2	306.2	358.3	612	606	1,218	204	202	406	31		
S12000010	East Lothian		Scotland	SCO	335.5	240.4	285.7	428	436	864	143	145	288	9		
S12000011	East Renfrewshire		Scotland	SCO	294.1	202.8	243.3	340	376	716	113	125	239	2		
S12000013	Eilean Siar		Scotland	SCO	416.9	262.1	327.0	163	163	326	54	54	109	26		
S12000014	Falkirk		Scotland	SCO	362.8	260.0	307.8	667	639	1,306	222	213	435	15		
S12000015	Fife		Scotland	SCO	368.8	269.0	314.1	1,656	1,696	3,352	552	565	1,117	20		
S12000017	Highland		Scotland	SCO	368.2	244.5	300.0	1,118	1,047	2,165	373	349	722	12		
S12000018	Inverclyde		Scotland	SCO	405.0	256.9	318.7	390	395	785	130	132	262	21		
S12000019	Midlothian		Scotland	SCO	333.7	257.4	291.3	323	343	666	108	114	222	10		
S12000020	Moray		Scotland	SCO	329.9	244.8	283.9	404	415	819	135	138	273	7		
S12000021	North Ayrshire		Scotland	SCO	399.0	262.7	321.9	688	646	1,334	229	215	445	24		
S12000023	Orkney Islands		Scotland	SCO	347.9	259.6	303.5	112	104	216	37	35	72	14		
S12000024	Perth & Kinross		Scotland	SCO	308.3	229.1	265.4	656	718	1,374	219	239	458	3		
S12000026	Scottish Borders		Scotland	SCO	357.2	231.5	283.5	560	529	1,089	187	176	363	6		
S12000027	Shetland Islands		Scotland	SCO	444.7	258.0	340.2	118	94	212	39	31	71	29		
S12000028	South Ayrshire		Scotland	SCO	372.9	256.2	309.0	627	619	1,246	209	206	415	17		

**Table 1.20 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES										ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
					Age standardised CVD death rates per 100,000			Total number of CVD deaths 2015/17			Average number of annual CVD deaths 2015/17					
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
S12000029	South Lanarkshire		Scotland	SCO	382.0	258.5	313.3	1,372	1,357	2,729	457	452	910	18	9	
S12000030	Stirling		Scotland	SCO	312.5	231.9	269.6	332	356	688	111	119	229	4	23	
S12000033	Aberdeen City		Scotland	SCO	380.9	271.7	320.3	841	915	1,756	280	305	585	23	29	
S12000034	Aberdeenshire		Scotland	SCO	383.3	276.3	325.3	1,110	1,092	2,202	370	364	734	25	30	
S12000035	Argyll & Bute		Scotland	SCO	408.0	243.6	313.8	504	451	955	168	150	318	19	18	
S12000036	City of Edinburgh		Scotland	SCO	349.6	237.8	285.1	1,690	1,809	3,499	563	603	1,166	8	28	
S12000038	Renfrewshire		Scotland	SCO	384.9	265.2	319.4	792	761	1,553	264	254	518	22	10	
S12000039	West Dunbartonshire		Scotland	SCO	417.0	309.0	356.7	396	444	840	132	148	280	30	1	
S12000040	West Lothian		Scotland	SCO	355.2	250.1	297.7	615	557	1,172	205	186	391	11	13	
S12000041	Angus		Scotland	SCO	344.7	239.6	283.3	539	578	1,117	180	193	372	5	21	
S12000042	Dundee City		Scotland	SCO	440.8	261.8	336.0	713	648	1,361	238	216	454	27	7	
S12000044	North Lanarkshire		Scotland	SCO	416.4	279.0	339.8	1,436	1,309	2,745	479	436	915	28	4	
S12000045	East Dunbartonshire		Scotland	SCO	280.6	201.6	237.9	413	432	845	138	144	282	1	31	
S12000046	Glasgow City		Scotland	SCO	463.0	281.3	359.9	2,489	2,318	4,807	830	773	1,602	32	2	
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	300.2	203.9	249.3	610	634	1,244	203	211	415	4	16	
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	376.3	254.5	312.8	530	465	995	177	155	332	20	13	
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	333.4	224.8	277.1	659	575	1,234	220	192	411	13	19	
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	321.3	229.4	274.5	548	507	1,055	183	169	352	11	14	
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	300.8	220.9	260.0	336	355	691	112	118	230	6	18	
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	309.7	221.6	262.6	605	601	1,206	202	200	402	7	11	
W06000010	Cardiganshire / Sir Gaerfyrdd	Dyfed	Wales / Cymru	WAL	368.0	259.1	309.4	1,001	967	1,968	334	322	656	19	9	
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	341.4	253.6	295.6	716	698	1,414	239	233	471	18	5	
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	423.7	293.0	352.6	359	340	699	120	113	233	22	1	
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	377.8	224.7	293.8	442	378	820	147	126	273	17	6	
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	320.9	184.2	246.0	460	383	843	153	128	281	3	22	
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	344.3	248.1	293.5	573	583	1,156	191	194	385	16	7	
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	323.1	238.4	276.0	336	376	712	112	125	237	12	10	
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	321.5	208.0	258.5	559	553	1,112	186	184	371	5	17	
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	327.2	224.2	272.6	580	538	1,118	193	179	373	9	8	
W06000016	Rhondda Cynon Taf / Rhondda C Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	341.9	230.9	281.3	952	884	1,836	317	295	612	14	3		
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	377.5	273.3	322.2	267	253	520	89	84	173	21	2	
W06000023	Powys	Powys	Wales / Cymru	WAL	317.5	217.0	263.2	695	685	1,380	232	228	460	8	20	
W06000014	The Vale of Glamorgan / Bro Mo South Glamorgan / De Morgannwg	Wales / Cymru	WAL	304.3	171.8	226.1	481	425	906	160	142	302	1	21		
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	317.3	181.6	240.1	1,049	920	1,969	350	307	656	2	12	
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	357.5	207.4	273.6	1,080	909	1,989	360	303	663	10	15	
W06000012	Neath Port Talbot / Castell-nedd West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	352.6	235.0	288.8	640	602	1,242	213	201	414	15	4		

**Notes:** ICD-10 codes I00-I99. Directly age-standardised using the 2013 European Standard Population.

**Source:** England: Mortality rates not available at time of publication. Number of Deaths are taken from NOMIS Mortality Statistics  
Wales: Mortality rates from Health Maps Wales  
Scotland: Mortality rates calculated in partnership with National Records of Scotland.  
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.

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

**Table 1.21 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths 2015/17			Average number of annual CVD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	
E06000032	Luton	Bedfordshire	East of England	ENG	127.4	60.8	92.9	251	124	375	84	41	125	292	330	40
E06000055	Bedford	Bedfordshire	East of England	ENG	99.7	37.6	70.4	212	93	305	71	31	102	190	202	154
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	79.3	32.3	56.7	286	126	412	95	42	137	95	95	264
E06000036	Bracknell Forest	Berkshire	South East	ENG	77.3	38.6	53.8	98	50	148	33	17	49	71	71	287
E06000037	West Berkshire	Berkshire	South East	ENG	68.5	25.3	48.6	150	59	209	50	20	70	41	41	291
E06000038	Reading	Berkshire	South East	ENG	103.7	42.3	78.7	161	77	238	54	26	79	237	259	143
E06000039	Slough	Berkshire	South East	ENG	143.8	79.0	108.9	181	93	274	60	31	91	319	377	79
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	76.0	22.2	50.4	143	55	198	48	18	66	51	51	306
E06000041	Wokingham	Berkshire	South East	ENG	66.9	26.9	46.7	127	64	191	42	21	64	30	30	325
E06000023	Bristol, City of	Bristol	South West	ENG	110.6	49.6	79.5	472	226	698	157	75	233	243	266	77
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	105.0	40.0	71.4	292	125	417	97	42	139	200	215	181
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG	79.0	34.4	56.2	186	89	275	62	30	92	92	92	283
E07000005	Chiltern	Buckinghamshire	South East	ENG	58.8	21.5	46.1	87	38	125	29	13	42	27	27	324
E07000006	South Bucks	Buckinghamshire	South East	ENG	56.3	27.3	50.2	65	35	100	22	12	33	47	47	302
E07000007	Wycombe	Buckinghamshire	South East	ENG	76.7	19.9	49.3	166	60	226	55	20	75	42	42	293
E06000031	Peterborough	Cambridgeshire	East of England	ENG	125.3	46.8	87.0	265	108	373	88	36	124	275	311	58
E07000008	Cambridge	Cambridgeshire	East of England	ENG	82.0	36.9	68.7	98	52	150	33	17	50	178	188	227
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	84.9	45.7	65.0	103	59	162	34	20	54	156	161	255
E07000010	Fenland	Cambridgeshire	East of England	ENG	109.5	44.9	79.4	166	77	243	55	26	81	242	265	55
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	82.6	23.7	53.4	205	68	273	68	23	91	69	69	265
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	58.7	25.5	43.5	126	66	192	42	22	64	16	16	314
E06000006	Halton	Cheshire	North West	ENG	113.0	62.4	91.2	195	119	314	65	40	105	290	328	36
E06000007	Warrington	Cheshire	North West	ENG	106.2	41.4	74.2	292	122	414	97	41	138	213	230	176
E06000049	Cheshire East	Cheshire	North West	ENG	88.2	36.9	61.7	498	216	714	166	72	238	138	141	241
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	95.5	41.7	68.8	459	220	679	153	73	226	179	189	192
E06000052	Cornwall and Isles of Scilly	Cornwall	South West	ENG	93.3	41.2	67.0	832	397	1,229	277	132	410	171	177	68
E06000001	Hartlepool	County Durham	North East	ENG	139.8	53.2	95.7	168	65	233	56	22	78	298	344	32
E06000004	Stockton-on-Tees	County Durham	North East	ENG	107.2	43.2	74.6	265	121	386	88	40	129	216	233	130
E06000005	Darlington	County Durham	North East	ENG	99.4	45.3	73.3	150	74	224	50	25	75	211	226	122
E06000047	County Durham	County Durham	North East	ENG	103.0	52.7	78.5	755	411	1,166	252	137	389	235	257	81
E07000026	Allerdale	Cumbria	North West	ENG	96.1	55.4	77.8	154	91	245	51	30	82	231	252	114
E07000027	Barrow-in-Furness	Cumbria	North West	ENG	119.0	48.4	85.6	118	58	176	39	19	59	268	303	44
E07000028	Carlisle	Cumbria	North West	ENG	109.0	44.9	79.0	168	80	248	56	27	83	240	262	112
E07000029	Copeland	Cumbria	North West	ENG	105.4	49.0	86.0	127	61	188	42	20	63	270	305	63
E07000030	Eden	Cumbria	North West	ENG	88.6	21.6	60.0	83	30	113	28	10	38	127	129	182
E07000031	South Lakeland	Cumbria	North West	ENG	62.7	20.7	44.6	119	45	164	40	15	55	18	18	251
E06000015	Derby	Derbyshire	East Midlands	ENG	118.1	48.3	82.5	329	151	480	110	50	160	255	283	84
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	88.2	43.8	69.1	172	94	266	57	31	89	182	192	162
E07000033	Bolsover	Derbyshire	East Midlands	ENG	84.5	36.6	59.6	104	49	153	35	16	51	120	122	61
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	128.9	51.7	89.9	191	80	271	64	27	90	285	322	85
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	64.2	24.8	43.5	81	39	120	27	13	40	15	15	258
E07000036	Erewash	Derbyshire	East Midlands	ENG	98.7	40.7	71.3	157	75	232	52	25	77	197	212	149
E07000037	High Peak	Derbyshire	East Midlands	ENG	79.1	37.6	58.9	112	60	172	37	20	57	115	116	198
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	89.1	39.1	62.6	135	66	201	45	22	67	142	145	190
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	73.7	35.7	54.6	114	47	161	38	16	54	82	82	230
E06000026	Plymouth	Devon	South West	ENG	105.5	55.7	78.8	344	182	526	115	61	175	239	261	82
E06000027	Torbay	Devon	South West	ENG	105.8	44.7	74.7	231	111	342	77	37	114	217	234	46
E07000040	East Devon	Devon	South West	ENG	67.9	19.6	45.5	165	62	227	55	21	76	24	24	246
E07000041	Exeter	Devon	South West	ENG	102.3	25.9	63.0	132	41	173	44	14	58	146	149	165
E07000042	Mid Devon	Devon	South West	ENG	80.1	13.1	51.9	105	31	136	35	10	45	59	59	156
E07000043	North Devon	Devon	South West	ENG	102.6	46.2	72.5	149	79	228	50	26	76	206	221	127

**Table 1.21 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75														
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths 2015/17			Average number of annual CVD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived)			
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	4N			
E07000044	South Hams	Devon	South West	ENG	71.2	24.8	47.8	111	44	155	37	15	52	32	32	209			
E07000045	Teignbridge	Devon	South West	ENG	79.7	30.2	56.2	176	79	255	59	26	85	91	91	177			
E07000046	Torridge	Devon	South West	ENG	94.1	29.7	65.7	122	48	170	41	16	57	163	168	67			
E07000047	West Devon	Devon	South West	ENG	86.5	39.1	59.7	91	43	134	30	14	45	121	123	141			
E06000028	Bournemouth	Dorset	South West	ENG	97.4	40.9	67.3	220	95	315	73	32	105	173	180	117			
E06000029	Poole	Dorset	South West	ENG	72.4	41.2	57.3	153	87	240	51	29	80	101	101	208			
E07000048	Christchurch	Dorset	South West	ENG	88.1	19.7	54.3	66	26	92	22	9	31	76	76	259			
E07000049	East Dorset	Dorset	South West	ENG	61.7	12.5	44.7	101	44	145	34	15	48	19	19	303			
E07000050	North Dorset	Dorset	South West	ENG	55.5	21.6	43.4	78	32	110	26	11	37	14	14	210			
E07000051	Purbeck	Dorset	South West	ENG	82.5	18.1	50.6	70	22	92	23	7	31	53	53	211			
E07000052	West Dorset	Dorset	South West	ENG	76.2	25.7	54.7	142	63	205	47	21	68	83	83	207			
E07000053	Weymouth and Portland	Dorset	South West	ENG	92.8	57.1	73.3	111	56	167	37	19	56	212	227	103			
E06000043	Brighton and Hove	East Sussex	South East	ENG	99.7	43.5	72.9	293	132	425	98	44	142	208	223	109			
E07000061	Eastbourne	East Sussex	South East	ENG	90.2	27.9	60.2	123	58	181	41	19	60	129	131	120			
E07000062	Hastings	East Sussex	South East	ENG	146.9	58.0	103.1	190	78	268	63	26	89	312	365	20			
E07000063	Lewes	East Sussex	South East	ENG	70.1	31.1	48.5	101	56	157	34	19	52	40	40	201			
E07000064	Rother	East Sussex	South East	ENG	64.0	22.4	45.2	118	52	170	39	17	57	22	22	148			
E07000065	Wealden	East Sussex	South East	ENG	61.7	29.0	46.7	167	84	251	56	28	84	29	29	276			
E06000033	Southend-on-Sea	Essex	East of England	ENG	104.9	36.9	69.6	241	94	335	80	31	112	186	198	105			
E06000034	Thurrock	Essex	East of England	ENG	111.2	50.5	83.0	210	101	311	70	34	104	256	285	111			
E07000066	Basildon	Essex	East of England	ENG	96.8	40.1	71.1	215	105	320	72	35	107	194	208	113			
E07000067	Braintree	Essex	East of England	ENG	88.5	39.0	64.3	189	89	278	63	30	93	150	154	197			
E07000068	Brentwood	Essex	East of England	ENG	67.3	24.0	47.5	69	30	99	23	10	33	31	31	294			
E07000069	Castle Point	Essex	East of England	ENG	92.5	32.9	64.8	136	57	193	45	19	64	153	158	187			
E07000070	Chelmsford	Essex	East of England	ENG	73.6	32.8	53.0	171	78	249	57	26	83	63	63	261			
E07000071	Colchester	Essex	East of England	ENG	81.1	29.1	55.6	180	80	260	60	27	87	86	86	185			
E07000072	Epping Forest	Essex	East of England	ENG	73.9	28.3	51.9	124	58	182	41	19	61	58	58	199			
E07000073	Harlow	Essex	East of England	ENG	137.8	36.5	89.7	128	48	176	43	16	59	284	321	71			
E07000074	Maldon	Essex	East of England	ENG	90.7	30.2	62.3	97	37	134	32	12	45	140	143	204			
E07000075	Rochford	Essex	East of England	ENG	68.0	21.3	45.5	93	37	130	31	12	43	23	23	285			
E07000076	Tendring	Essex	East of England	ENG	110.7	46.7	78.7	259	131	390	86	44	130	236	258	49			
E07000077	Uttlesford	Essex	East of England	ENG	68.7	24.9	50.6	85	41	126	28	14	42	52	52	297			
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	82.0	29.3	56.9	295	122	417	98	41	139	98	98	274			
E07000078	Cheltenham	Gloucestershire	South West	ENG	90.7	17.3	58.8	129	42	171	43	14	57	113	114	228			
E07000079	Cotswold	Gloucestershire	South West	ENG	63.3	25.7	47.9	102	43	145	34	14	48	34	34	267			
E07000080	Forest of Dean	Gloucestershire	South West	ENG	70.1	46.0	59.9	106	67	173	35	22	58	124	126	155			
E07000081	Gloucester	Gloucestershire	South West	ENG	127.3	41.1	85.7	197	75	272	66	25	91	269	304	139			
E07000082	Stroud	Gloucestershire	South West	ENG	62.8	30.7	48.4	117	65	182	39	22	61	37	37	281			
E07000083	Tewkesbury	Gloucestershire	South West	ENG	86.7	24.1	59.0	108	48	156	36	16	52	116	117	262			
E09000001	City of London	Greater London	London	ENG	-	-	49.5	9	1	10	3	0	3	1	1	226			
E09000002	Barking and Dagenham	Greater London	London	ENG	141.4	57.5	97.6	239	102	341	80	34	114	302	351	3			
E09000003	Barnet	Greater London	London	ENG	85.6	31.9	57.1	330	134	464	110	45	155	100	100	157			
E09000004	Bexley	Greater London	London	ENG	90.3	36.9	61.6	245	111	356	82	37	119	137	140	195			
E09000005	Brent	Greater London	London	ENG	124.8	57.9	90.3	384	177	561	128	59	187	287	324	39			
E09000006	Bromley	Greater London	London	ENG	79.5	28.3	52.5	300	117	417	100	39	139	61	61	220			
E09000007	Camden	Greater London	London	ENG	85.2	34.1	61.4	193	85	278	64	28	93	136	139	69			
E09000008	Croydon	Greater London	London	ENG	97.8	45.3	71.1	372	201	573	124	67	191	195	209	91			
E09000009	Ealing	Greater London	London	ENG	107.1	46.2	77.0	360	161	521	120	54	174	225	246	87			
E09000010	Enfield	Greater London	London	ENG	103.2	42.0	70.1	326	147	473	109	49	158	188	200	53			
E09000011	Greenwich	Greater London	London	ENG	120.0	50.0	84.1	291	124	415	97	41	138	260	291	50			
E09000012	Hackney	Greater London	London	ENG	156.0	62.1	107.1	277	120	397	92	40	132	316	372	2			

**Table 1.21 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths 2015/17			Average number of annual CVD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	
E09000013	Hammersmith and Fulham	Greater London	London	ENG	99.3	40.4	68.6	146	67	213	49	22	71	177	187	76
E09000014	Haringey	Greater London	London	ENG	122.8	51.9	84.1	262	126	388	87	42	129	262	293	21
E09000015	Harrow	Greater London	London	ENG	80.2	32.8	55.4	211	95	306	70	32	102	85	85	213
E09000016	Havering	Greater London	London	ENG	100.1	35.4	66.9	304	121	425	101	40	142	169	175	166
E09000017	Hillingdon	Greater London	London	ENG	99.4	44.9	72.3	297	144	441	99	48	147	204	219	153
E09000018	Hounslow	Greater London	London	ENG	116.9	49.7	81.9	297	129	426	99	43	142	251	278	86
E09000019	Islington	Greater London	London	ENG	117.6	57.7	84.3	204	100	304	68	33	101	263	295	13
E09000020	Kensington and Chelsea	Greater London	London	ENG	65.7	18.3	42.5	111	47	158	37	16	53	9	9	99
E09000021	Kingston upon Thames	Greater London	London	ENG	83.5	34.4	56.5	147	62	209	49	21	70	94	94	278
E09000022	Lambeth	Greater London	London	ENG	136.9	61.8	97.2	306	148	454	102	49	151	301	350	22
E09000023	Lewisham	Greater London	London	ENG	110.8	53.0	79.4	257	134	391	86	45	130	241	264	26
E09000024	Merton	Greater London	London	ENG	95.2	41.5	66.7	185	86	271	62	29	90	168	174	212
E09000025	Newham	Greater London	London	ENG	126.1	73.7	99.7	302	171	473	101	57	158	306	357	8
E09000026	Redbridge	Greater London	London	ENG	112.7	45.4	77.9	303	135	438	101	45	146	232	253	119
E09000027	Richmond upon Thames	Greater London	London	ENG	71.4	30.1	51.3	156	79	235	52	26	78	55	55	296
E09000028	Southwark	Greater London	London	ENG	108.6	47.9	76.2	265	108	373	88	36	124	222	242	23
E09000029	Sutton	Greater London	London	ENG	82.1	37.1	57.5	182	82	264	61	27	88	103	103	217
E09000030	Tower Hamlets	Greater London	London	ENG	116.9	67.5	93.4	210	114	324	70	38	108	294	333	6
E09000031	Waltham Forest	Greater London	London	ENG	121.7	54.1	86.5	277	135	412	92	45	137	273	308	15
E09000032	Wandsworth	Greater London	London	ENG	106.7	47.2	75.7	247	123	370	82	41	123	219	238	147
E09000033	Westminster	Greater London	London	ENG	81.9	36.8	59.6	191	88	279	64	29	93	119	121	43
E08000001	Bolton	Greater Manchester	North West	ENG	128.7	64.6	97.0	451	244	695	150	81	232	300	346	64
E08000002	Bury	Greater Manchester	North West	ENG	117.2	63.4	88.0	287	152	439	96	51	146	278	314	132
E08000003	Manchester	Greater Manchester	North West	ENG	175.8	91.3	132.8	720	384	1,104	240	128	368	325	389	1
E08000004	Oldham	Greater Manchester	North West	ENG	151.8	60.5	104.7	399	181	580	133	60	193	313	367	51
E08000005	Rochdale	Greater Manchester	North West	ENG	148.3	68.9	109.9	386	201	587	129	67	196	320	378	25
E08000006	Salford	Greater Manchester	North West	ENG	144.8	60.3	102.9	386	165	551	129	55	184	311	364	27
E08000007	Stockport	Greater Manchester	North West	ENG	88.8	41.4	64.4	340	167	507	113	56	169	152	156	178
E08000008	Tameside	Greater Manchester	North West	ENG	141.9	63.7	102.6	400	195	595	133	65	198	310	363	34
E08000009	Trafford	Greater Manchester	North West	ENG	93.0	42.7	67.0	262	132	394	87	44	131	170	176	222
E08000010	Wigan	Greater Manchester	North West	ENG	124.0	60.9	93.5	561	291	852	187	97	284	295	334	107
E06000044	Portsmouth	Hampshire	South East	ENG	116.5	49.7	84.1	257	112	369	86	37	123	261	292	57
E06000045	Southampton	Hampshire	South East	ENG	119.0	40.3	80.7	289	110	399	96	37	133	249	273	54
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	88.7	34.1	61.2	195	86	281	65	29	94	135	138	275
E07000085	East Hampshire	Hampshire	South East	ENG	70.0	26.5	46.6	123	50	173	41	17	58	28	28	308
E07000086	Eastleigh	Hampshire	South East	ENG	74.9	35.1	56.0	131	66	197	44	22	66	89	89	298
E07000087	Fareham	Hampshire	South East	ENG	65.1	27.9	47.9	108	62	170	36	21	57	35	35	312
E07000088	Gosport	Hampshire	South East	ENG	100.1	40.4	69.3	118	56	174	39	19	58	185	196	131
E07000089	Hart	Hampshire	South East	ENG	47.3	22.4	39.0	64	34	98	21	11	33	2	2	326
E07000090	Havant	Hampshire	South East	ENG	90.9	42.3	65.8	164	92	256	55	31	85	164	169	142
E07000091	New Forest	Hampshire	South East	ENG	65.6	27.0	44.6	197	88	285	66	29	95	17	17	257
E07000092	Rushmoor	Hampshire	South East	ENG	80.7	46.0	63.5	87	53	140	29	18	47	148	151	205
E07000093	Test Valley	Hampshire	South East	ENG	73.3	36.6	54.4	124	75	199	41	25	66	79	79	286
E07000094	Winchester	Hampshire	South East	ENG	71.0	21.5	48.3	114	51	165	38	17	55	36	36	307
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	87.0	43.1	65.1	254	134	388	85	45	129	158	163	126
E07000095	Broxbourne	Hertfordshire	East of England	ENG	101.8	28.3	62.0	113	39	152	38	13	51	139	142	171
E07000096	Dacorum	Hertfordshire	East of England	ENG	75.8	32.8	56.0	146	66	212	49	22	71	90	90	260
E07000098	Hertsmere	Hertfordshire	East of England	ENG	84.3	31.6	53.3	106	44	150	35	15	50	68	68	247
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	74.4	25.7	54.1	125	56	181	42	19	60	73	73	271
E07000102	Three Rivers	Hertfordshire	East of England	ENG	66.2	30.8	53.1	74	50	124	25	17	41	65	65	300
E07000103	Watford	Hertfordshire	East of England	ENG	109.5	26.3	76.9	105	42	147	35	14	49	224	245	194

**Table 1.21 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths 2015/17			Average number of annual CVD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	
E07000240	St Albans	Hertfordshire	East of England	ENG	72.1	29.9	51.5	126	56	182	42	19	61	56	56	319
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	92.9	31.0	60.4	115	42	157	38	14	52	132	134	235
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	71.2	28.3	50.3	130	59	189	43	20	63	50	50	315
E07000243	Stevenage	Hertfordshire	East of England	ENG	102.1	34.8	78.8	110	48	158	37	16	53	238	260	137
E06000046	Isle of Wight	Isle of Wight	South East	ENG	111.9	42.4	75.8	260	114	374	87	38	125	220	239	83
E06000035	Medway	Kent	South East	ENG	94.3	42.5	69.2	316	157	473	105	52	158	183	193	121
E07000105	Ashford	Kent	South East	ENG	71.7	28.3	54.5	126	61	187	42	20	62	80	80	173
E07000106	Canterbury	Kent	South East	ENG	86.3	30.8	58.0	177	73	250	59	24	83	108	108	183
E07000107	Dartford	Kent	South East	ENG	96.0	41.5	69.2	114	53	167	38	18	56	184	194	170
E07000108	Dover	Kent	South East	ENG	90.3	40.5	71.0	165	77	242	55	26	81	192	206	116
E07000109	Gravesham	Kent	South East	ENG	90.5	36.5	62.6	117	52	169	39	17	56	143	146	124
E07000110	Maidstone	Kent	South East	ENG	77.0	29.5	55.6	173	72	245	58	24	82	87	87	206
E07000111	Sevenoaks	Kent	South East	ENG	69.2	29.4	50.3	114	65	179	38	22	60	49	49	272
E07000112	Shepway	Kent	South East	ENG	87.2	36.9	63.4	149	69	218	50	23	73	147	150	104
E07000113	Swale	Kent	South East	ENG	87.0	46.7	67.1	176	102	278	59	34	93	172	178	88
E07000114	Thanet	Kent	South East	ENG	106.6	52.1	78.0	224	119	343	75	40	114	233	254	35
E07000115	Tonbridge and Malling	Kent	South East	ENG	76.4	31.5	53.0	133	56	189	44	19	63	64	64	277
E07000116	Tunbridge Wells	Kent	South East	ENG	75.5	38.0	57.6	116	66	182	39	22	61	105	105	279
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	155.2	71.7	115.7	264	122	386	88	41	129	323	382	24
E06000009	Blackpool	Lancashire	North West	ENG	164.8	75.0	120.7	319	147	466	106	49	155	324	388	4
E07000117	Burnley	Lancashire	North West	ENG	134.5	68.3	101.0	157	79	236	52	26	79	307	358	17
E07000118	Chorley	Lancashire	North West	ENG	101.6	41.9	71.9	162	76	238	54	25	79	203	218	186
E07000119	Fylde	Lancashire	North West	ENG	91.7	42.1	65.6	122	60	182	41	20	61	162	167	218
E07000120	Hyndburn	Lancashire	North West	ENG	132.5	53.1	94.6	143	68	211	48	23	70	296	337	28
E07000121	Lancaster	Lancashire	North West	ENG	97.4	54.0	77.2	185	108	293	62	36	98	227	248	125
E07000122	Pendle	Lancashire	North West	ENG	124.7	55.5	90.1	148	73	221	49	24	74	286	323	42
E07000123	Preston	Lancashire	North West	ENG	128.7	52.2	93.1	202	81	283	67	27	94	293	331	72
E07000124	Ribble Valley	Lancashire	North West	ENG	89.7	30.4	64.8	95	39	134	32	13	45	154	159	290
E07000125	Rossendale	Lancashire	North West	ENG	115.1	50.2	82.5	110	54	164	37	18	55	254	282	98
E07000126	South Ribble	Lancashire	North West	ENG	84.1	37.1	62.8	134	79	213	45	26	71	144	147	234
E07000127	West Lancashire	Lancashire	North West	ENG	90.9	52.7	71.4	153	97	250	51	32	83	198	213	164
E07000128	Wyre	Lancashire	North West	ENG	108.7	40.6	76.0	196	85	281	65	28	94	221	240	167
E06000016	Leicester	Leicestershire	East Midlands	ENG	151.9	66.2	107.6	492	205	697	164	68	232	318	375	14
E07000129	Blaby	Leicestershire	East Midlands	ENG	69.5	25.6	54.2	105	52	157	35	17	52	74	74	288
E07000130	Charnwood	Leicestershire	East Midlands	ENG	90.8	39.3	65.3	200	93	293	67	31	98	160	165	237
E07000131	Harborough	Leicestershire	East Midlands	ENG	72.4	31.4	50.7	103	43	146	34	14	49	54	54	311
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	87.3	31.5	57.7	142	61	203	47	20	68	106	106	248
E07000133	Melton	Leicestershire	East Midlands	ENG	73.1	33.7	54.5	56	31	87	19	10	29	81	81	236
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	85.5	47.4	68.2	123	74	197	41	25	66	174	182	214
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	78.1	37.8	65.0	71	37	108	24	12	36	155	160	249
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	132.4	43.9	88.9	285	104	389	95	35	130	279	316	65
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	97.0	49.4	72.9	242	120	362	81	40	121	209	224	135
E07000136	Boston	Lincolnshire	East Midlands	ENG	114.8	46.5	85.3	121	55	176	40	18	59	267	302	66
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	112.0	62.8	90.3	308	175	483	103	58	161	289	327	33
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	147.7	61.3	112.8	158	74	232	53	25	77	321	380	45
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	78.4	38.6	59.9	135	78	213	45	26	71	126	128	266
E07000140	South Holland	Lincolnshire	East Midlands	ENG	119.3	51.7	85.1	170	81	251	57	27	84	265	300	134
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	83.3	30.6	57.9	182	70	252	61	23	84	107	107	223
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	106.1	34.6	69.0	160	59	219	53	20	73	180	190	152
E08000011	Knowsley	Merseyside	North West	ENG	133.3	62.9	99.6	238	130	368	79	43	123	305	356	5
E08000012	Liverpool	Merseyside	North West	ENG	146.5	59.7	102.0	755	324	1,079	252	108	360	309	361	7



**Table 1.21 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths 2015/17			Average number of annual CVD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	
E08000013	St. Helens	Merseyside	North West	ENG	128.8	48.9	89.0	315	137	452	105	46	151	280	317	52
E08000014	Sefton	Merseyside	North West	ENG	105.3	46.1	73.0	403	198	601	134	66	200	210	225	102
E08000015	Wirral	Merseyside	North West	ENG	105.5	50.7	76.7	466	247	713	155	82	238	223	244	106
E07000143	Breckland	Norfolk	East of England	ENG	76.5	37.3	54.2	161	79	240	54	26	80	75	75	129
E07000144	Broadland	Norfolk	East of England	ENG	76.7	20.4	53.3	152	62	214	51	21	71	66	66	273
E07000145	Great Yarmouth	Norfolk	East of England	ENG	117.1	47.7	79.7	180	72	252	60	24	84	245	268	29
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	91.2	41.9	65.2	210	118	328	70	39	109	159	164	89
E07000147	North Norfolk	Norfolk	East of England	ENG	80.1	33.4	56.8	165	68	233	55	23	78	96	96	93
E07000148	Norwich	Norfolk	East of England	ENG	120.2	52.1	87.4	166	82	248	55	27	83	276	312	47
E07000149	South Norfolk	Norfolk	East of England	ENG	64.2	28.7	49.7	142	75	217	47	25	72	44	44	229
E07000150	Corby	Northamptonshire	East Midlands	ENG	105.6	60.7	86.0	84	57	141	28	19	47	271	306	75
E07000151	Daventry	Northamptonshire	East Midlands	ENG	88.7	22.1	60.3	111	40	151	37	13	50	131	133	238
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG	94.2	36.5	66.6	131	59	190	44	20	63	167	173	221
E07000153	Kettering	Northamptonshire	East Midlands	ENG	109.1	25.6	70.1	141	51	192	47	17	64	189	201	168
E07000154	Northampton	Northamptonshire	East Midlands	ENG	120.3	51.7	84.0	298	134	432	99	45	144	259	290	108
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG	72.3	26.8	54.4	106	44	150	35	15	50	78	78	317
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG	104.2	59.9	79.9	109	68	177	36	23	59	247	270	133
E06000057	Northumberland	Northumberland	North East	ENG	94.4	47.9	71.2	486	260	746	162	87	249	196	211	145
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	142.1	68.7	107.3	410	202	612	137	67	204	317	373	10
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	113.4	44.0	82.2	200	78	278	67	26	93	252	279	70
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	88.0	52.7	74.5	154	99	253	51	33	84	214	231	115
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	80.7	38.7	60.8	133	66	199	44	22	66	133	136	219
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	88.3	39.4	66.6	149	75	224	50	25	75	166	172	202
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	107.2	52.7	77.4	158	77	235	53	26	78	228	249	59
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	91.9	27.3	64.3	162	67	229	54	22	76	151	155	158
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	76.3	25.4	49.9	126	43	169	42	14	56	46	46	318
E07000177	Cherwell	Oxfordshire	South East	ENG	77.2	29.2	54.3	145	67	212	48	22	71	77	77	256
E07000178	Oxford	Oxfordshire	South East	ENG	90.6	43.2	69.1	116	65	181	39	22	60	181	191	169
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	57.5	26.1	42.6	115	53	168	38	18	56	10	10	309
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	63.0	26.4	45.8	114	54	168	38	18	56	26	26	310
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	67.2	21.6	44.9	100	41	141	33	14	47	20	20	316
E06000017	Rutland	Rutland	East Midlands	ENG	59.5	14.8	40.0	41	21	62	14	7	21	3	3	299
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	106.0	53.6	83.6	243	129	372	81	43	124	258	289	97
E06000051	Shropshire	Shropshire	West Midlands	ENG	84.9	37.0	60.3	421	191	612	140	64	204	130	132	175
E06000022	Bath and North East Somerset	Somerset	South West	ENG	84.2	30.5	58.1	190	83	273	63	28	91	109	109	268
E06000024	North Somerset	Somerset	South West	ENG	87.5	31.0	59.3	282	116	398	94	39	133	118	120	224
E07000187	Mendip	Somerset	South West	ENG	68.7	34.5	55.2	118	71	189	39	24	63	84	84	160
E07000188	Sedgemoor	Somerset	South West	ENG	93.5	28.1	59.1	176	55	231	59	18	77	117	118	146
E07000189	South Somerset	Somerset	South West	ENG	84.8	32.5	58.2	217	100	317	72	33	106	110	110	180
E07000190	Taunton Deane	Somerset	South West	ENG	90.6	26.9	57.4	153	55	208	51	18	69	102	102	193
E07000191	West Somerset	Somerset	South West	ENG	45.4	39.1	45.0	43	30	73	14	10	24	21	21	56
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	126.7	48.2	89.4	410	161	571	137	54	190	283	320	18
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	108.2	49.6	77.0	154	62	216	51	21	72	226	247	128
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	99.8	42.6	70.8	157	70	227	52	23	76	191	205	163
E07000194	Lichfield	Staffordshire	West Midlands	ENG	82.2	37.8	59.8	135	66	201	45	22	67	122	124	252
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	110.2	44.1	78.1	196	89	285	65	30	95	234	255	161
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	74.8	35.7	61.1	139	80	219	46	27	73	134	137	253
E07000197	Stafford	Staffordshire	West Midlands	ENG	72.2	26.1	52.9	155	64	219	52	21	73	62	62	243
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	72.9	34.1	56.4	132	58	190	44	19	63	93	93	203
E07000199	Tamworth	Staffordshire	West Midlands	ENG	99.3	48.6	71.6	104	56	160	35	19	53	201	216	144
E07000200	Babergh	Suffolk	East of England	ENG	67.7	28.0	47.9	105	51	156	35	17	52	33	33	200



**Table 1.21 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths 2015/17			Average number of annual CVD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	
E07000201	Forest Heath	Suffolk	East of England	ENG	102.6	17.6	62.9	82	25	107	27	8	36	145	148	140
E07000202	Ipswich	Suffolk	East of England	ENG	126.7	38.1	85.0	202	71	273	67	24	91	264	299	74
E07000203	Mid Suffolk	Suffolk	East of England	ENG	57.2	32.9	43.0	99	59	158	33	20	53	11	11	239
E07000204	St Edmundsbury	Suffolk	East of England	ENG	66.0	39.2	54.0	113	79	192	38	26	64	72	72	196
E07000205	Suffolk Coastal	Suffolk	East of England	ENG	66.8	27.1	48.5	143	67	210	48	22	70	39	39	240
E07000206	Waveney	Suffolk	East of England	ENG	97.9	54.9	74.6	188	108	296	63	36	99	215	232	95
E07000207	Elmbridge	Surrey	South East	ENG	71.2	30.4	51.6	109	59	168	36	20	56	57	57	322
E07000208	Epsom and Ewell	Surrey	South East	ENG	76.7	21.5	48.4	72	25	97	24	8	32	38	38	313
E07000209	Guildford	Surrey	South East	ENG	59.5	33.1	45.7	104	59	163	35	20	54	25	25	304
E07000210	Mole Valley	Surrey	South East	ENG	66.2	14.3	41.9	86	27	113	29	9	38	7	7	305
E07000211	Reigate and Banstead	Surrey	South East	ENG	77.0	37.3	57.6	144	70	214	48	23	71	104	104	292
E07000212	Runnymede	Surrey	South East	ENG	91.7	22.2	58.3	85	31	116	28	10	39	111	112	280
E07000213	Spelthorne	Surrey	South East	ENG	85.0	40.5	65.0	113	52	165	38	17	55	157	162	233
E07000214	Surrey Heath	Surrey	South East	ENG	64.7	20.0	43.2	77	28	105	26	9	35	13	13	320
E07000215	Tandridge	Surrey	South East	ENG	79.1	28.9	53.3	101	38	139	34	13	46	67	67	284
E07000216	Waverley	Surrey	South East	ENG	56.9	27.4	41.0	100	49	149	33	16	50	5	5	323
E07000217	Woking	Surrey	South East	ENG	71.8	30.3	53.5	87	44	131	29	15	44	70	70	301
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	121.2	50.8	89.1	371	164	535	124	55	178	281	318	92
E08000022	North Tyneside	Tyne & Wear	North East	ENG	117.5	48.5	81.0	316	145	461	105	48	154	250	276	138
E08000023	South Tyneside	Tyne & Wear	North East	ENG	103.3	39.6	71.0	213	93	306	71	31	102	193	207	31
E08000024	Sunderland	Tyne & Wear	North East	ENG	115.5	54.4	83.4	421	216	637	140	72	212	257	287	38
E08000037	Gateshead	Tyne & Wear	North East	ENG	125.0	53.8	89.4	324	158	482	108	53	161	282	319	80
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	93.2	37.9	72.3	100	45	145	33	15	48	205	220	179
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	106.3	49.7	79.6	184	96	280	61	32	93	244	267	110
E07000220	Rugby	Warwickshire	West Midlands	ENG	77.5	48.3	66.2	115	75	190	38	25	63	165	171	244
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	77.5	29.2	52.1	157	62	219	52	21	73	60	60	263
E07000222	Warwick	Warwickshire	West Midlands	ENG	85.3	33.0	58.9	153	70	223	51	23	74	114	115	269
E08000025	Birmingham	West Midlands	West Midlands	ENG	133.4	60.2	96.0	1,403	669	2,072	468	223	691	299	345	11
E08000026	Coventry	West Midlands	West Midlands	ENG	126.4	46.2	86.8	441	177	618	147	59	206	274	310	60
E08000027	Dudley	West Midlands	West Midlands	ENG	93.9	45.8	69.8	401	209	610	134	70	203	187	199	118
E08000028	Sandwell	West Midlands	West Midlands	ENG	143.6	55.8	99.1	502	206	708	167	69	236	304	355	12
E08000029	Solihull	West Midlands	West Midlands	ENG	81.9	37.4	59.9	238	125	363	79	42	121	123	125	216
E08000030	Walsall	West Midlands	West Midlands	ENG	132.7	62.7	98.0	444	228	672	148	76	224	303	353	41
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	150.1	60.6	105.0	434	186	620	145	62	207	314	368	19
E07000223	Adur	West Sussex	South East	ENG	89.2	25.4	57.0	78	33	111	26	11	37	99	99	150
E07000224	Arun	West Sussex	South East	ENG	104.8	34.4	68.4	265	110	375	88	37	125	175	184	174
E07000225	Chichester	West Sussex	South East	ENG	71.8	36.8	56.9	147	81	228	49	27	76	97	97	231
E07000226	Crawley	West Sussex	South East	ENG	94.4	55.1	71.9	105	63	168	35	21	56	202	217	151
E07000227	Horsham	West Sussex	South East	ENG	56.8	19.3	41.2	119	60	179	40	20	60	6	6	295
E07000228	Mid Sussex	West Sussex	South East	ENG	74.4	25.6	49.3	148	55	203	49	18	68	43	43	321
E07000229	Worthing	West Sussex	South East	ENG	104.8	35.7	71.4	155	69	224	52	23	75	199	214	172
E06000030	Swindon	Wiltshire	South West	ENG	94.8	35.8	65.4	248	103	351	83	34	117	161	166	189
E06000054	Wiltshire	Wiltshire	South West	ENG	79.3	33.6	55.9	531	252	783	177	84	261	88	88	232
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	88.5	24.4	58.5	122	43	165	41	14	55	112	113	282
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	52.5	33.9	42.1	72	50	122	24	17	41	8	8	188
E07000236	Redditch	Worcestershire	West Midlands	ENG	104.7	43.3	72.6	128	49	177	43	16	59	207	222	136
E07000237	Worcester	Worcestershire	West Midlands	ENG	109.4	40.2	77.7	132	59	191	44	20	64	230	251	159
E07000238	Wychavon	Worcestershire	West Midlands	ENG	68.8	30.0	50.2	145	63	208	48	21	69	48	48	191
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	109.0	44.3	75.1	175	75	250	58	25	83	218	235	123
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	146.9	64.3	105.2	426	195	621	142	65	207	315	369	9
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	93.2	44.3	68.6	523	263	786	174	88	262	176	186	215

**Table 1.21 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75													IMD - Rank of average rank (1 = most deprived)
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths 2015/17			Average number of annual CVD deaths for 2015/17			ASDR Rank (1 = lowest death rate)				
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	4N		
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	154.1	67.3	113.4	254	119	373	85	40	124	322	381	16		
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	123.5	62.0	92.0	242	135	377	81	45	126	291	329	78		
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	93.0	33.9	62.5	227	99	326	76	33	109	141	144	270		
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	55.4	31.5	40.8	57	34	91	19	11	30	4	4	250		
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	60.5	30.7	49.8	101	57	158	34	19	53	45	45	245		
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	87.3	35.7	60.1	204	91	295	68	30	98	128	130	289		
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	72.7	39.6	59.9	68	34	102	23	11	34	125	127	225		
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	47.9	26.1	43.2	59	32	91	20	11	30	12	12	184		
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	110.1	42.3	77.6	204	93	297	68	31	99	229	250	90		
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	90.5	39.4	64.1	122	51	173	41	17	58	149	153	254		
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	115.0	54.2	86.1	385	193	578	128	64	193	272	307	37		
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	114.3	46.9	80.3	464	203	667	155	68	222	248	272	48		
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	108.1	57.2	85.1	392	222	614	131	74	205	266	301	62		
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	111.6	55.2	82.3	694	372	1,066	231	124	355	253	281	94		
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	135.9	67.1	101.6	773	405	1,178	258	135	393	308	359	30		
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	132.7	55.8	95.6	369	170	539	123	57	180	297	343	96		
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	108.7	50.2	79.9	588	285	873	196	95	291	246	269	101		
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	123.2	53.3	87.5	1,029	479	1,508	343	160	503	277	313	100		
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	123.9	58.0	90.3	562	273	835	187	91	278	288	325	73		
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	81.7	48.6	64.6	135	86	221	45	29	74	4	157	9		
N09000002	Armagh City, Banbridge & Craigavon		Northern Ireland	NI	94.8	45.5	69.5	226	113	339	75	38	113	7	197	7		
N09000003	Belfast		Northern Ireland	NI	135.5	63.2	97.2	468	241	709	156	80	236	11	349	2		
N09000004	Causeway Coast & Glens		Northern Ireland	NI	95.1	47.2	70.8	175	89	264	58	30	88	8	204	6		
N09000005	Derry City & Strabane		Northern Ireland	NI	118.3	52.3	84.4	200	93	293	67	31	98	10	296	1		
N09000006	Fermanagh & Omagh		Northern Ireland	NI	85.8	35.0	60.4	122	50	172	41	17	57	2	135	4		
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	82.3	37.9	59.2	140	69	209	47	23	70	1	119	11		
N09000008	Mid & East Antrim		Northern Ireland	NI	103.3	40.6	71.2	186	77	263	62	26	88	9	210	8		
N09000009	Mid Ulster		Northern Ireland	NI	89.0	45.8	67.2	140	73	213	47	24	71	5	179	5		
N09000010	Newry, Mourne & Down		Northern Ireland	NI	96.9	40.5	68.0	191	83	274	64	28	91	6	181	3		
N09000011	Ards & North Down		Northern Ireland	NI	86.1	43.6	64.0	196	106	302	65	35	101	3	152	10		
S12000005	Clackmannanshire		Scotland	SCO	144.2	72.0	106.7	105	57	162	35	19	54	25	371	8		
S12000006	Dumfries & Galloway		Scotland	SCO	126.4	62.2	93.2	305	159	464	102	53	155	16	332	14		
S12000008	East Ayrshire		Scotland	SCO	148.8	87.6	116.9	250	158	408	83	53	136	29	385	6		
S12000010	East Lothian		Scotland	SCO	106.7	47.8	76.0	151	73	224	50	24	75	7	241	22		
S12000011	East Renfrewshire		Scotland	SCO	98.5	43.2	69.2	118	59	177	39	20	59	3	195	32		
S12000013	Eilean Siar		Scotland	SCO	151.9	52.8	101.9	67	22	89	22	7	30	21	360	11		
S12000014	Falkirk		Scotland	SCO	146.8	66.5	105.3	307	148	455	102	49	152	24	370	16		
S12000015	Fife		Scotland	SCO	125.6	66.8	95.1	644	366	1,010	215	122	337	19	341	17		
S12000017	Highland		Scotland	SCO	119.6	48.7	83.3	421	178	599	140	59	200	12	286	19		
S12000018	Inverclyde		Scotland	SCO	153.1	60.6	104.1	168	73	241	56	24	80	23	366	5		
S12000019	Midlothian		Scotland	SCO	98.1	63.9	80.3	116	82	198	39	27	66	9	271	15		
S12000020	Moray		Scotland	SCO	112.9	51.4	80.8	151	75	226	50	25	75	10	274	24		
S12000021	North Ayrshire		Scotland	SCO	148.5	71.0	107.3	288	156	444	96	52	148	26	374	3		
S12000023	Orkney Islands		Scotland	SCO	107.2	58.4	82.6	37	21	58	12	7	19	11	284	25		
S12000024	Perth & Kinross		Scotland	SCO	88.9	49.5	68.6	195	117	312	65	39	104	2	185	27		
S12000026	Scottish Borders		Scotland	SCO	92.4	45.2	68.2	169	88	257	56	29	86	1	183	20		
S12000027	Shetland Islands		Scotland	SCO	157.3	46.3	102.5	52	15	67	17	5	22	22	362	26		
S12000028	South Ayrshire		Scotland	SCO	140.6	57.9	97.2	242	109	351	81	36	117	20	348	12		
S12000029	South Lanarkshire		Scotland	SCO	134.4	58.0	94.6	574	265	839	191	88	280	17	336	9		
S12000030	Stirling		Scotland	SCO	107.8	51.5	78.5	128	66	194	43	22	65	8	256	23		
S12000033	Aberdeen City		Scotland	SCO	127.9	62.9	94.8	325	164	489	108	55	163	18	339	29		

**Table 1.21 Age-standardised death rates per 100,000 and number of deaths for cardiovascular disease (CVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age standardised CVD death rates per 100,000			Total number of premature CVD deaths 2015/17			Average number of annual CVD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived) 4N
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	
S12000034	Aberdeenshire		Scotland	SCO	106.1	45.1	75.3	380	162	542	127	54	181	6	236	30
S12000035	Argyll & Bute		Scotland	SCO	124.9	50.3	86.7	177	76	253	59	25	84	15	309	18
S12000036	City of Edinburgh		Scotland	SCO	113.2	58.7	84.9	602	333	935	201	111	312	13	297	28
S12000038	Renfrewshire		Scotland	SCO	151.9	69.1	108.3	346	172	518	115	57	173	27	376	10
S12000039	West Dunbartonshire		Scotland	SCO	157.8	84.8	119.3	181	108	289	60	36	96	31	387	1
S12000040	West Lothian		Scotland	SCO	115.1	57.1	84.9	254	134	388	85	45	129	14	298	13
S12000041	Angus		Scotland	SCO	101.2	47.5	73.4	176	88	264	59	29	88	5	228	21
S12000042	Dundee City		Scotland	SCO	162.7	78.6	118.5	274	148	422	91	49	141	30	386	7
S12000044	North Lanarkshire		Scotland	SCO	166.0	70.8	115.8	691	326	1,017	230	109	339	28	383	4
S12000045	East Dunbartonshire		Scotland	SCO	99.5	44.7	70.4	147	75	222	49	25	74	4	203	31
S12000046	Glasgow City		Scotland	SCO	202.6	89.9	143.7	1,262	599	1,861	421	200	620	32	390	2
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	113.5	55.2	83.5	207	108	315	69	36	105	10	288	16
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	133.7	57.8	94.8	192	90	282	64	30	94	16	340	13
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	117.6	48.8	82.3	258	114	372	86	38	124	9	280	19
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	119.8	57.7	88.3	222	108	330	74	36	110	12	315	14
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	97.6	34.8	65.9	111	39	150	37	13	50	2	170	18
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	107.0	56.8	81.2	207	120	324	69	40	108	8	277	11
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	130.2	60.1	94.3	369	180	549	123	60	183	14	335	9
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	132.7	65.5	98.2	318	165	483	106	55	161	20	354	5
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	160.9	73.3	116.4	156	72	228	52	24	76	22	384	1
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	141.1	55.5	97.1	174	72	249	58	24	83	18	347	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	109.5	39.4	73.6	159	60	219	53	20	73	3	229	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	133.6	59.6	95.5	240	114	351	80	38	117	17	342	7
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	109.1	53.6	80.9	123	63	186	41	21	62	7	275	10
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	109.0	42.6	75.6	192	78	270	64	26	90	4	237	17
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg	Gan Wales / Cymru	WAL	115.2	55.0	84.2	225	114	339	75	38	113	11	294	8
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg	Gan Wales / Cymru	WAL	127.9	63.0	94.7	402	207	606	134	69	202	15	338	3
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg	Gan Wales / Cymru	WAL	151.1	75.2	112.3	117	60	177	39	20	59	21	379	2
W06000023	Powys	Powys	Wales / Cymru	WAL	102.0	51.4	76.3	225	117	342	75	39	114	5	243	20
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Gan Wales / Cymru	WAL	81.5	37.1	58.2	144	72	216	48	24	72	1	111	21
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Gan Wales / Cymru	WAL	117.5	43.1	79.1	420	162	582	140	54	194	6	263	12
W06000001	Swansea / Abertawe	West Glamorgan / Gorllewin Morg	Gan Wales / Cymru	WAL	134.5	50.1	90.3	408	168	576	136	56	192	13	326	15
W06000012	Neath Port Talbot / Castell-nedd Por	West Glamorgan / Gorllewin Morg	Gan Wales / Cymru	WAL	133.9	64.1	97.9	264	135	396	88	45	132	19	352	4

**Notes:** ICD-10 codes I00-I99. Directly age-standardised using the 2013 European Standard Population.  
- indicates number of deaths considered too small to calculate rate.

**Source:** England: Mortality rates from Public Health England Public Health Profiles <https://fingertips.phe.org.uk/profile/mortality-profile>  
Wales: Mortality rates from Health Maps Wales <https://www.healthmapswales.wales.nhs.uk>  
Scotland: Mortality rates calculated in partnership with National Records of Scotland.  
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.

**Table 1.22 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17					
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
E06000032	Luton	Bedfordshire	East of England	ENG				319	160	479	106	53	160		40	
E06000055	Bedford	Bedfordshire	East of England	ENG				280	169	449	93	56	150		154	
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG				393	228	621	131	76	207		264	
E06000036	Bracknell Forest	Berkshire	South East	ENG				122	84	206	41	28	69		287	
E06000037	West Berkshire	Berkshire	South East	ENG				252	127	379	84	42	126		291	
E06000038	Reading	Berkshire	South East	ENG				206	128	334	69	43	111		143	
E06000039	Slough	Berkshire	South East	ENG				199	147	346	66	49	115		79	
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG				210	160	370	70	53	123		306	
E06000041	Wokingham	Berkshire	South East	ENG				237	109	346	79	36	115		325	
E06000023	Bristol, City of	Bristol	South West	ENG				594	336	930	198	112	310		77	
E06000042	Milton Keynes	Buckinghamshire	South East	ENG				317	159	476	106	53	159		181	
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG				258	171	429	86	57	143		283	
E07000005	Chiltern	Buckinghamshire	South East	ENG				152	83	235	51	28	78		324	
E07000006	South Bucks	Buckinghamshire	South East	ENG				143	93	236	48	31	79		302	
E07000007	Wycombe	Buckinghamshire	South East	ENG				299	158	457	100	53	152		293	
E06000031	Peterborough	Cambridgeshire	East of England	ENG				320	187	507	107	62	169		58	
E07000008	Cambridge	Cambridgeshire	East of England	ENG				169	122	291	56	41	97		227	
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG				157	106	263	52	35	88		255	
E07000010	Fenland	Cambridgeshire	East of England	ENG				218	146	364	73	49	121		55	
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG				248	154	402	83	51	134		265	
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG				241	150	391	80	50	130		314	
E06000006	Halton	Cheshire	North West	ENG				229	182	411	76	61	137		36	
E06000007	Warrington	Cheshire	North West	ENG				426	238	664	142	79	221		176	
E06000049	Cheshire East	Cheshire	North West	ENG				747	471	1,218	249	157	406		241	
E06000050	Cheshire West and Chester	Cheshire	North West	ENG				642	432	1,074	214	144	358		192	
E06000052	Cornwall and Isles of Scilly	Cornwall	South West	ENG				1,354	913	2,267	451	304	756		68	
E06000001	Hartlepool	County Durham	North East	ENG				215	107	322	72	36	107		32	
E06000004	Stockton-on-Tees	County Durham	North East	ENG				375	263	638	125	88	213		130	
E06000005	Darlington	County Durham	North East	ENG				204	149	353	68	50	118		122	
E06000047	County Durham	County Durham	North East	ENG				1,112	699	1,811	371	233	604		81	
E07000026	Allerdale	Cumbria	North West	ENG				230	163	393	77	54	131		114	
E07000027	Barrow-in-Furness	Cumbria	North West	ENG				164	90	254	55	30	85		44	
E07000028	Carlisle	Cumbria	North West	ENG				281	195	476	94	65	159		112	
E07000029	Copeland	Cumbria	North West	ENG				181	114	295	60	38	98		63	
E07000030	Eden	Cumbria	North West	ENG				143	89	232	48	30	77		182	
E07000031	South Lakeland	Cumbria	North West	ENG				250	156	406	83	52	135		251	
E06000015	Derby	Derbyshire	East Midlands	ENG				488	312	800	163	104	267		84	
E07000032	Amber Valley	Derbyshire	East Midlands	ENG				255	174	429	85	58	143		162	
E07000033	Bolsover	Derbyshire	East Midlands	ENG				167	102	269	56	34	90		61	
E07000034	Chesterfield	Derbyshire	East Midlands	ENG				263	150	413	88	50	138		85	
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG				159	95	254	53	32	85		258	
E07000036	Erewash	Derbyshire	East Midlands	ENG				212	144	356	71	48	119		149	
E07000037	High Peak	Derbyshire	East Midlands	ENG				176	119	295	59	40	98		198	
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG				249	158	407	83	53	136		190	
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG				166	115	281	55	38	94		230	
E06000026	Plymouth	Devon	South West	ENG				492	304	796	164	101	265		82	
E06000027	Torbay	Devon	South West	ENG				344	219	563	115	73	188		46	
E07000040	East Devon	Devon	South West	ENG				342	267	609	114	89	203		246	
E07000041	Exeter	Devon	South West	ENG				195	133	328	65	44	109		165	
E07000042	Mid Devon	Devon	South West	ENG				172	101	273	57	34	91		156	
E07000043	North Devon	Devon	South West	ENG				209	162	371	70	54	124		127	

**Table 1.22 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17					
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
E07000044	South Hams	Devon	South West	ENG				220	103	323	73	34	108		209	
E07000045	Teignbridge	Devon	South West	ENG				322	178	500	107	59	167		177	
E07000046	Torridge	Devon	South West	ENG				188	107	295	63	36	98		67	
E07000047	West Devon	Devon	South West	ENG				138	83	221	46	28	74		141	
E06000028	Bournemouth	Dorset	South West	ENG				363	263	626	121	88	209		117	
E06000029	Poole	Dorset	South West	ENG				293	224	517	98	75	172		208	
E07000048	Christchurch	Dorset	South West	ENG				145	83	228	48	28	76		259	
E07000049	East Dorset	Dorset	South West	ENG				233	156	389	78	52	130		303	
E07000050	North Dorset	Dorset	South West	ENG				139	99	238	46	33	79		210	
E07000051	Purbeck	Dorset	South West	ENG				124	79	203	41	26	68		211	
E07000052	West Dorset	Dorset	South West	ENG				261	174	435	87	58	145		207	
E07000053	Weymouth and Portland	Dorset	South West	ENG				153	108	261	51	36	87		103	
E06000043	Brighton and Hove	East Sussex	South East	ENG				357	217	574	119	72	191		109	
E07000061	Eastbourne	East Sussex	South East	ENG				205	164	369	68	55	123		120	
E07000062	Hastings	East Sussex	South East	ENG				231	115	346	77	38	115		20	
E07000063	Lewes	East Sussex	South East	ENG				179	133	312	60	44	104		201	
E07000064	Rother	East Sussex	South East	ENG				232	189	421	77	63	140		148	
E07000065	Wealden	East Sussex	South East	ENG				309	199	508	103	66	169		276	
E06000033	Southend-on-Sea	Essex	East of England	ENG				346	227	573	115	76	191		105	
E06000034	Thurrock	Essex	East of England	ENG				277	172	449	92	57	150		111	
E07000066	Basildon	Essex	East of England	ENG				328	202	530	109	67	177		113	
E07000067	Braintree	Essex	East of England	ENG				277	171	448	92	57	149		197	
E07000068	Brentwood	Essex	East of England	ENG				153	92	245	51	31	82		294	
E07000069	Castle Point	Essex	East of England	ENG				196	119	315	65	40	105		187	
E07000070	Chelmsford	Essex	East of England	ENG				272	185	457	91	62	152		261	
E07000071	Colchester	Essex	East of England	ENG				269	186	455	90	62	152		185	
E07000072	Epping Forest	Essex	East of England	ENG				194	161	355	65	54	118		199	
E07000073	Harlow	Essex	East of England	ENG				150	107	257	50	36	86		71	
E07000074	Maldon	Essex	East of England	ENG				146	72	218	49	24	73		204	
E07000075	Rochford	Essex	East of England	ENG				140	92	232	47	31	77		285	
E07000076	Tendring	Essex	East of England	ENG				424	275	699	141	92	233		49	
E07000077	Uttlesford	Essex	East of England	ENG				142	86	228	47	29	76		297	
E06000025	South Gloucestershire	Gloucestershire	South West	ENG				423	239	662	141	80	221		274	
E07000078	Cheltenham	Gloucestershire	South West	ENG				227	151	378	76	50	126		228	
E07000079	Cotswold	Gloucestershire	South West	ENG				189	123	312	63	41	104		267	
E07000080	Forest of Dean	Gloucestershire	South West	ENG				216	147	363	72	49	121		155	
E07000081	Gloucester	Gloucestershire	South West	ENG				288	161	449	96	54	150		139	
E07000082	Stroud	Gloucestershire	South West	ENG				253	167	420	84	56	140		281	
E07000083	Tewkesbury	Gloucestershire	South West	ENG				191	123	314	64	41	105		262	
E09000001	City of London	Greater London	London	ENG				12	-	19	4	-	6		226	
E09000002	Barking and Dagenham	Greater London	London	ENG				235	155	390	78	52	130		3	
E09000003	Barnet	Greater London	London	ENG				542	360	902	181	120	301		157	
E09000004	Bexley	Greater London	London	ENG				394	251	645	131	84	215		195	
E09000005	Brent	Greater London	London	ENG				436	248	684	145	83	228		39	
E09000006	Bromley	Greater London	London	ENG				484	326	810	161	109	270		220	
E09000007	Camden	Greater London	London	ENG				254	130	384	85	43	128		69	
E09000008	Croydon	Greater London	London	ENG				462	293	755	154	98	252		91	
E09000009	Ealing	Greater London	London	ENG				468	258	726	156	86	242		87	
E09000010	Enfield	Greater London	London	ENG				464	290	754	155	97	251		53	
E09000011	Greenwich	Greater London	London	ENG				326	192	518	109	64	173		50	
E09000012	Hackney	Greater London	London	ENG				281	158	439	94	53	146		2	

**Table 1.22 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17					
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
E09000013	Hammersmith and Fulham	Greater London	London	ENG				175	105	280	58	35	93		76	
E09000014	Haringey	Greater London	London	ENG				261	165	426	87	55	142		21	
E09000015	Harrow	Greater London	London	ENG				336	250	586	112	83	195		213	
E09000016	Havering	Greater London	London	ENG				451	304	755	150	101	252		166	
E09000017	Hillingdon	Greater London	London	ENG				431	279	710	144	93	237		153	
E09000018	Hounslow	Greater London	London	ENG				377	213	590	126	71	197		86	
E09000019	Islington	Greater London	London	ENG				256	143	399	85	48	133		13	
E09000020	Kensington and Chelsea	Greater London	London	ENG				129	79	208	43	26	69		99	
E09000021	Kingston upon Thames	Greater London	London	ENG				204	161	365	68	54	122		278	
E09000022	Lambeth	Greater London	London	ENG				320	168	488	107	56	163		22	
E09000023	Lewisham	Greater London	London	ENG				299	172	471	100	57	157		26	
E09000024	Merton	Greater London	London	ENG				257	161	418	86	54	139		212	
E09000025	Newham	Greater London	London	ENG				296	192	488	99	64	163		8	
E09000026	Redbridge	Greater London	London	ENG				363	286	649	121	95	216		119	
E09000027	Richmond upon Thames	Greater London	London	ENG				231	160	391	77	53	130		296	
E09000028	Southwark	Greater London	London	ENG				267	140	407	89	47	136		23	
E09000029	Sutton	Greater London	London	ENG				275	177	452	92	59	151		217	
E09000030	Tower Hamlets	Greater London	London	ENG				258	139	397	86	46	132		6	
E09000031	Waltham Forest	Greater London	London	ENG				303	196	499	101	65	166		15	
E09000032	Wandsworth	Greater London	London	ENG				263	180	443	88	60	148		147	
E09000033	Westminster	Greater London	London	ENG				245	137	382	82	46	127		43	
E08000001	Bolton	Greater Manchester	North West	ENG				562	357	919	187	119	306		64	
E08000002	Bury	Greater Manchester	North West	ENG				431	299	730	144	100	243		132	
E08000003	Manchester	Greater Manchester	North West	ENG				906	605	1,511	302	202	504		1	
E08000004	Oldham	Greater Manchester	North West	ENG				537	321	858	179	107	286		51	
E08000005	Rochdale	Greater Manchester	North West	ENG				536	330	866	179	110	289		25	
E08000006	Salford	Greater Manchester	North West	ENG				476	304	780	159	101	260		27	
E08000007	Stockport	Greater Manchester	North West	ENG				577	418	995	192	139	332		178	
E08000008	Tameside	Greater Manchester	North West	ENG				532	378	910	177	126	303		34	
E08000009	Trafford	Greater Manchester	North West	ENG				428	283	711	143	94	237		222	
E08000010	Wigan	Greater Manchester	North West	ENG				712	390	1,102	237	130	367		107	
E06000044	Portsmouth	Hampshire	South East	ENG				300	208	508	100	69	169		57	
E06000045	Southampton	Hampshire	South East	ENG				416	251	667	139	84	222		54	
E07000084	Basingstoke and Deane	Hampshire	South East	ENG				271	149	420	90	50	140		275	
E07000085	East Hampshire	Hampshire	South East	ENG				185	107	292	62	36	97		308	
E07000086	Eastleigh	Hampshire	South East	ENG				201	147	348	67	49	116		298	
E07000087	Fareham	Hampshire	South East	ENG				202	125	327	67	42	109		312	
E07000088	Gosport	Hampshire	South East	ENG				150	82	232	50	27	77		131	
E07000089	Hart	Hampshire	South East	ENG				101	65	166	34	22	55		326	
E07000090	Havant	Hampshire	South East	ENG				250	162	412	83	54	137		142	
E07000091	New Forest	Hampshire	South East	ENG				467	285	752	156	95	251		257	
E07000092	Rushmoor	Hampshire	South East	ENG				116	72	188	39	24	63		205	
E07000093	Test Valley	Hampshire	South East	ENG				208	143	351	69	48	117		286	
E07000094	Winchester	Hampshire	South East	ENG				209	153	362	70	51	121		307	
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG				424	322	746	141	107	249		126	
E07000095	Broxbourne	Hertfordshire	East of England	ENG				168	118	286	56	39	95		171	
E07000096	Dacorum	Hertfordshire	East of England	ENG				234	141	375	78	47	125		260	
E07000098	Hertsmere	Hertfordshire	East of England	ENG				155	109	264	52	36	88		247	
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG				214	160	374	71	53	125		271	
E07000102	Three Rivers	Hertfordshire	East of England	ENG				128	112	240	43	37	80		300	
E07000103	Watford	Hertfordshire	East of England	ENG				144	92	236	48	31	79		194	

**Table 1.22 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N	
E07000240	St Albans	Hertfordshire	East of England	ENG				201	122	323	67	41	108		319	
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG				175	114	289	58	38	96		235	
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG				226	131	357	75	44	119		315	
E07000243	Stevenage	Hertfordshire	East of England	ENG				153	91	244	51	30	81		137	
E06000046	Isle of Wight	Isle of Wight	South East	ENG				402	255	657	134	85	219		83	
E06000035	Medway	Kent	South East	ENG				427	259	686	142	86	229		121	
E07000105	Ashford	Kent	South East	ENG				174	122	296	58	41	99		173	
E07000106	Canterbury	Kent	South East	ENG				290	216	506	97	72	169		183	
E07000107	Dartford	Kent	South East	ENG				140	95	235	47	32	78		170	
E07000108	Dover	Kent	South East	ENG				238	175	413	79	58	138		116	
E07000109	Gravesham	Kent	South East	ENG				179	104	283	60	35	94		124	
E07000110	Maldstone	Kent	South East	ENG				259	184	443	86	61	148		206	
E07000111	Sevenoaks	Kent	South East	ENG				171	108	279	57	36	93		272	
E07000112	Shepway	Kent	South East	ENG				233	146	379	78	49	126		104	
E07000113	Swale	Kent	South East	ENG				232	158	390	77	53	130		88	
E07000114	Thanet	Kent	South East	ENG				339	251	590	113	84	197		35	
E07000115	Tonbridge and Malling	Kent	South East	ENG				210	113	323	70	38	108		277	
E07000116	Tunbridge Wells	Kent	South East	ENG				151	115	266	50	38	89		279	
E06000008	Blackburn with Darwen	Lancashire	North West	ENG				330	235	565	110	78	188		24	
E06000009	Blackpool	Lancashire	North West	ENG				409	274	683	136	91	228		4	
E07000117	Burnley	Lancashire	North West	ENG				200	127	327	67	42	109		17	
E07000118	Chorley	Lancashire	North West	ENG				236	141	377	79	47	126		186	
E07000119	Fylde	Lancashire	North West	ENG				199	144	343	66	48	114		218	
E07000120	Hyndburn	Lancashire	North West	ENG				212	152	364	71	51	121		28	
E07000121	Lancaster	Lancashire	North West	ENG				283	198	481	94	66	160		125	
E07000122	Pendle	Lancashire	North West	ENG				216	137	353	72	46	118		42	
E07000123	Preston	Lancashire	North West	ENG				268	154	422	89	51	141		72	
E07000124	Ribble Valley	Lancashire	North West	ENG				138	101	239	46	34	80		290	
E07000125	Rossendale	Lancashire	North West	ENG				153	124	277	51	41	92		98	
E07000126	South Ribble	Lancashire	North West	ENG				212	118	330	71	39	110		234	
E07000127	West Lancashire	Lancashire	North West	ENG				232	161	393	77	54	131		164	
E07000128	Wyre	Lancashire	North West	ENG				296	205	501	99	68	167		167	
E06000016	Leicester	Leicestershire	East Midlands	ENG				632	362	994	211	121	331		14	
E07000129	Blaby	Leicestershire	East Midlands	ENG				186	110	296	62	37	99		288	
E07000130	Charnwood	Leicestershire	East Midlands	ENG				276	180	456	92	60	152		237	
E07000131	Harborough	Leicestershire	East Midlands	ENG				154	80	234	51	27	78		311	
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG				199	117	316	66	39	105		248	
E07000133	Melton	Leicestershire	East Midlands	ENG				94	59	153	31	20	51		236	
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG				187	109	296	62	36	99		214	
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG				126	92	218	42	31	73		249	
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				409	241	650	136	80	217		65	
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				374	221	595	125	74	198		135	
E07000136	Boston	Lincolnshire	East Midlands	ENG				165	124	289	55	41	96		66	
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG				452	277	729	151	92	243		33	
E07000138	Lincoln	Lincolnshire	East Midlands	ENG				204	136	340	68	45	113		45	
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG				254	153	407	85	51	136		266	
E07000140	South Holland	Lincolnshire	East Midlands	ENG				242	131	373	81	44	124		134	
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG				293	206	499	98	69	166		223	
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG				216	116	332	72	39	111		152	
E08000011	Knowsley	Merseyside	North West	ENG				292	196	488	97	65	163		5	
E08000012	Liverpool	Merseyside	North West	ENG				867	421	1,288	289	140	429		7	

**Table 1.22 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17					
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
E08000013	St. Helens	Merseyside	North West	ENG				398	225	623	133	75	208		52	
E08000014	Sefton	Merseyside	North West	ENG				605	378	983	202	126	328		102	
E08000015	Wirral	Merseyside	North West	ENG				629	424	1,053	210	141	351		106	
E07000143	Breckland	Norfolk	East of England	ENG				313	191	504	104	64	168		129	
E07000144	Broadland	Norfolk	East of England	ENG				295	194	489	98	65	163		273	
E07000145	Great Yarmouth	Norfolk	East of England	ENG				268	130	398	89	43	133		29	
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG				380	235	615	127	78	205		89	
E07000147	North Norfolk	Norfolk	East of England	ENG				310	177	487	103	59	162		93	
E07000148	Norwich	Norfolk	East of England	ENG				255	150	405	85	50	135		47	
E07000149	South Norfolk	Norfolk	East of England	ENG				250	165	415	83	55	138		229	
E07000150	Corby	Northamptonshire	East Midlands	ENG				109	70	179	36	23	60		75	
E07000151	Daventry	Northamptonshire	East Midlands	ENG				128	72	200	43	24	67		238	
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG				175	93	268	58	31	89		221	
E07000153	Kettering	Northamptonshire	East Midlands	ENG				171	85	256	57	28	85		168	
E07000154	Northampton	Northamptonshire	East Midlands	ENG				363	208	571	121	69	190		108	
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG				131	77	208	44	26	69		317	
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG				130	75	205	43	25	68		133	
E06000057	Northumberland	Northumberland	North East	ENG				723	468	1,191	241	156	397		145	
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG				521	321	842	174	107	281		10	
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG				246	153	399	82	51	133		70	
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG				242	140	382	81	47	127		115	
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG				243	131	374	81	44	125		219	
E07000173	Gedling	Nottinghamshire	East Midlands	ENG				222	135	357	74	45	119		202	
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG				219	135	354	73	45	118		59	
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG				233	152	385	78	51	128		158	
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG				209	138	347	70	46	116		318	
E07000177	Cherwell	Oxfordshire	South East	ENG				229	143	372	76	48	124		256	
E07000178	Oxford	Oxfordshire	South East	ENG				146	103	249	49	34	83		169	
E07000179	South Oxfordshire	Oxfordshire	South East	ENG				209	111	320	70	37	107		309	
E07000180	Vale of White Horse	Oxfordshire	South East	ENG				177	134	311	59	45	104		310	
E07000181	West Oxfordshire	Oxfordshire	South East	ENG				172	113	285	57	38	95		316	
E06000017	Rutland	Rutland	East Midlands	ENG				76	59	135	25	20	45		299	
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG				301	182	483	100	61	161		97	
E06000051	Shropshire	Shropshire	West Midlands	ENG				715	446	1,161	238	149	387		175	
E06000022	Bath and North East Somerset	Somerset	South West	ENG				315	180	495	105	60	165		268	
E06000024	North Somerset	Somerset	South West	ENG				392	255	647	131	85	216		224	
E07000187	Mendip	Somerset	South West	ENG				221	142	363	74	47	121		160	
E07000188	Sedgemoor	Somerset	South West	ENG				258	147	405	86	49	135		146	
E07000189	South Somerset	Somerset	South West	ENG				350	190	540	117	63	180		180	
E07000190	Taunton Deane	Somerset	South West	ENG				266	160	426	89	53	142		193	
E07000191	West Somerset	Somerset	South West	ENG				93	59	152	31	20	51		56	
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG				545	311	856	182	104	285		18	
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG				218	155	373	73	52	124		128	
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG				213	147	360	71	49	120		163	
E07000194	Lichfield	Staffordshire	West Midlands	ENG				221	138	359	74	46	120		252	
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG				274	190	464	91	63	155		161	
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG				254	170	424	85	57	141		253	
E07000197	Stafford	Staffordshire	West Midlands	ENG				290	192	482	97	64	161		243	
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG				225	166	391	75	55	130		203	
E07000199	Tamworth	Staffordshire	West Midlands	ENG				141	81	222	47	27	74		144	
E07000200	Babergh	Suffolk	East of England	ENG				168	123	291	56	41	97		200	



**Table 1.22 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES										ASDR Rank (1 = lowest death rate) 4N	IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17					
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total			
E07000201	Forest Heath	Suffolk	East of England	ENG				102	65	167	34	22	56		140	
E07000202	Ipswich	Suffolk	East of England	ENG				251	156	407	84	52	136		74	
E07000203	Mid Suffolk	Suffolk	East of England	ENG				173	116	289	58	39	96		239	
E07000204	St Edmundsbury	Suffolk	East of England	ENG				213	153	366	71	51	122		196	
E07000205	Suffolk Coastal	Suffolk	East of England	ENG				245	200	445	82	67	148		240	
E07000206	Waveney	Suffolk	East of England	ENG				316	231	547	105	77	182		95	
E07000207	Elmbridge	Surrey	South East	ENG				196	145	341	65	48	114		322	
E07000208	Epsom and Ewell	Surrey	South East	ENG				100	56	156	33	19	52		313	
E07000209	Guildford	Surrey	South East	ENG				191	130	321	64	43	107		304	
E07000210	Mole Valley	Surrey	South East	ENG				148	105	253	49	35	84		305	
E07000211	Reigate and Banstead	Surrey	South East	ENG				245	149	394	82	50	131		292	
E07000212	Runnymede	Surrey	South East	ENG				134	90	224	45	30	75		280	
E07000213	Spelthorne	Surrey	South East	ENG				184	113	297	61	38	99		233	
E07000214	Surrey Heath	Surrey	South East	ENG				131	83	214	44	28	71		320	
E07000215	Tandridge	Surrey	South East	ENG				131	78	209	44	26	70		284	
E07000216	Waverley	Surrey	South East	ENG				209	128	337	70	43	112		323	
E07000217	Woking	Surrey	South East	ENG				135	95	230	45	32	77		301	
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG				471	251	722	157	84	241		92	
E08000022	North Tyneside	Tyne & Wear	North East	ENG				432	303	735	144	101	245		138	
E08000023	South Tyneside	Tyne & Wear	North East	ENG				301	218	519	100	73	173		31	
E08000024	Sunderland	Tyne & Wear	North East	ENG				564	339	903	188	113	301		38	
E08000037	Gateshead	Tyne & Wear	North East	ENG				461	285	746	154	95	249		80	
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG				155	69	224	52	23	75		179	
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG				245	149	394	82	50	131		110	
E07000220	Rugby	Warwickshire	West Midlands	ENG				198	112	310	66	37	103		244	
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG				248	141	389	83	47	130		263	
E07000222	Warwick	Warwickshire	West Midlands	ENG				223	135	358	74	45	119		269	
E08000025	Birmingham	West Midlands	West Midlands	ENG				1,862	1,171	3,033	621	390	1,011		11	
E08000026	Coventry	West Midlands	West Midlands	ENG				592	343	935	197	114	312		60	
E08000027	Dudley	West Midlands	West Midlands	ENG				635	433	1,068	212	144	356		118	
E08000028	Sandwell	West Midlands	West Midlands	ENG				681	435	1,116	227	145	372		12	
E08000029	Solihull	West Midlands	West Midlands	ENG				422	226	648	141	75	216		216	
E08000030	Walsall	West Midlands	West Midlands	ENG				645	410	1,055	215	137	352		41	
E08000031	Wolverhampton	West Midlands	West Midlands	ENG				602	381	983	201	127	328		19	
E07000223	Adur	West Sussex	South East	ENG				129	95	224	43	32	75		150	
E07000224	Arun	West Sussex	South East	ENG				463	261	724	154	87	241		174	
E07000225	Chichester	West Sussex	South East	ENG				270	166	436	90	55	145		231	
E07000226	Crawley	West Sussex	South East	ENG				166	86	252	55	29	84		151	
E07000227	Horsham	West Sussex	South East	ENG				247	151	398	82	50	133		295	
E07000228	Mid Sussex	West Sussex	South East	ENG				216	131	347	72	44	116		321	
E07000229	Worthing	West Sussex	South East	ENG				247	174	421	82	58	140		172	
E06000030	Swindon	Wiltshire	South West	ENG				346	208	554	115	69	185		189	
E06000054	Wiltshire	Wiltshire	South West	ENG				887	598	1,485	296	199	495		232	
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG				161	113	274	54	38	91		282	
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG				160	99	259	53	33	86		188	
E07000236	Redditch	Worcestershire	West Midlands	ENG				133	59	192	44	20	64		136	
E07000237	Worcester	Worcestershire	West Midlands	ENG				184	97	281	61	32	94		159	
E07000238	Wychavon	Worcestershire	West Midlands	ENG				241	141	382	80	47	127		191	
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG				202	115	317	67	38	106		123	
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				566	354	920	189	118	307		9	
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				838	521	1,359	279	174	453		215	

**Table 1.22 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N	
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG				312	221	533	104	74	178		16	
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG				352	242	594	117	81	198		78	
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				373	271	644	124	90	215		270	
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				117	111	228	39	37	76		250	
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				214	138	352	71	46	117		245	
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				330	206	536	110	69	179		289	
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				115	60	175	38	20	58		225	
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				154	97	251	51	32	84		184	
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				343	227	570	114	76	190		90	
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				185	126	311	62	42	104		254	
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				522	330	852	174	110	284		37	
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				663	415	1,078	221	138	359		48	
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				535	353	888	178	118	296		62	
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				1,067	678	1,745	356	226	582		94	
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				1,085	756	1,841	362	252	614		30	
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				448	286	734	149	95	245		96	
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				815	577	1,392	272	192	464		101	
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				1,612	1,007	2,619	537	336	873		100	
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				732	496	1,228	244	165	409		73	
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	148.1	57.8	95.5	211	118	329	70	39	110	1	9	
N09000002	Armagh City, Banbridge & Craigavon		Northern Ireland	NI	165.2	80.3	118.0	341	222	563	114	74	188	9	7	
N09000003	Belfast		Northern Ireland	NI	175.6	82.8	122.7	580	415	995	193	138	332	10	2	
N09000004	Causeway Coast & Glens		Northern Ireland	NI	159.7	77.6	113.0	252	168	420	84	56	140	7	6	
N09000005	Derry City & Strabane		Northern Ireland	NI	159.2	71.0	107.6	214	124	338	71	41	113	3	1	
N09000006	Fermanagh & Omagh		Northern Ireland	NI	155.5	76.3	111.4	188	125	313	63	42	104	6	4	
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	146.2	71.0	102.6	218	155	373	73	52	124	2	11	
N09000008	Mid & East Antrim		Northern Ireland	NI	164.0	69.2	109.0	259	160	419	86	53	140	4	8	
N09000009	Mid Ulster		Northern Ireland	NI	162.7	101.9	129.6	213	181	394	71	60	131	11	5	
N09000010	Newry, Mourne & Down		Northern Ireland	NI	161.8	75.2	113.4	282	176	458	94	59	153	8	3	
N09000011	Ards & North Down		Northern Ireland	NI	162.8	73.4	109.0	309	207	516	103	69	172	5	10	
S12000005	Clackmannanshire		Scotland	SCO	161.2	106.9	133.3	105	84	189	35	28	63	14	8	
S12000006	Dumfries & Galloway		Scotland	SCO	203.1	102.2	147.6	480	319	799	160	106	266	24	14	
S12000008	East Ayrshire		Scotland	SCO	211.8	124.4	163.9	324	248	572	108	83	191	32	6	
S12000010	East Lothian		Scotland	SCO	177.2	96.0	132.5	234	175	409	78	58	136	12	22	
S12000011	East Renfrewshire		Scotland	SCO	143.8	77.7	106.2	170	142	312	57	47	104	2	32	
S12000013	Eilean Siar		Scotland	SCO	250.0	97.5	156.2	97	58	155	32	19	52	27	11	
S12000014	Falkirk		Scotland	SCO	188.3	98.9	138.8	359	243	602	120	81	201	22	16	
S12000015	Fife		Scotland	SCO	184.4	96.7	135.5	862	607	1,469	287	202	490	16	17	
S12000017	Highland		Scotland	SCO	190.4	81.4	129.1	599	350	949	200	117	316	10	19	
S12000018	Inverclyde		Scotland	SCO	195.1	91.5	135.7	200	139	339	67	46	113	18	5	
S12000019	Midlothian		Scotland	SCO	177.7	83.6	123.3	178	112	290	59	37	97	7	15	
S12000020	Moray		Scotland	SCO	158.1	88.9	120.2	197	153	350	66	51	117	5	24	
S12000021	North Ayrshire		Scotland	SCO	223.4	105.4	155.5	398	260	658	133	87	219	26	3	
S12000023	Orkney Islands		Scotland	SCO	193.3	106.7	148.5	63	43	106	21	14	35	25	25	
S12000024	Perth & Kinross		Scotland	SCO	148.2	90.2	116.9	324	279	603	108	93	201	3	27	
S12000026	Scottish Borders		Scotland	SCO	189.6	85.6	128.5	303	194	497	101	65	166	9	20	
S12000027	Shetland Islands		Scotland	SCO	251.2	93.3	163.4	71	34	105	24	11	35	30	26	
S12000028	South Ayrshire		Scotland	SCO	188.6	93.2	135.6	325	224	549	108	75	183	17	12	
S12000029	South Lanarkshire		Scotland	SCO	197.4	94.5	138.2	726	498	1,224	242	166	408	20	9	
S12000030	Stirling		Scotland	SCO	158.5	86.4	118.5	174	132	306	58	44	102	4	23	
S12000033	Aberdeen City		Scotland	SCO	178.2	97.1	132.6	403	325	728	134	108	243	13	29	

**Table 1.22 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES										
					Age standardised CHD death rates per 100,000			Total number of CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
New LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	4N
S12000034	Aberdeenshire		Scotland	SCO	169.7	84.1	121.4	509	334	843	170	111	281	6	30
S12000035	Argyll & Bute		Scotland	SCO	202.2	88.8	136.3	254	163	417	85	54	139	19	18
S12000036	City of Edinburgh		Scotland	SCO	178.4	88.4	126.0	882	653	1,535	294	218	512	8	28
S12000038	Renfrewshire		Scotland	SCO	190.6	97.4	138.3	404	282	686	135	94	229	21	10
S12000039	West Dunbartonshire		Scotland	SCO	226.8	113.4	162.9	232	163	395	77	54	132	29	1
S12000040	West Lothian		Scotland	SCO	179.0	97.3	134.2	335	220	555	112	73	185	15	13
S12000041	Angus		Scotland	SCO	183.4	92.4	129.3	291	219	510	97	73	170	11	21
S12000042	Dundee City		Scotland	SCO	223.2	105.4	156.3	373	259	632	124	86	211	28	7
S12000044	North Lanarkshire		Scotland	SCO	206.1	103.2	147.6	733	486	1,219	244	162	406	23	4
S12000045	East Dunbartonshire		Scotland	SCO	134.3	74.0	100.3	198	156	354	66	52	118	1	31
S12000046	Glasgow City		Scotland	SCO	235.5	110.1	163.4	1,316	893	2,209	439	298	736	31	2
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	153.9	71.3	109.3	313	217	530	104	72	177	5	16
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	198.9	92.5	141.2	284	169	453	95	56	151	18	13
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	167.7	72.3	116.2	344	185	529	115	62	176	8	19
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	167.9	82.4	122.1	294	180	474	98	60	158	12	14
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	162.1	85.2	121.6	188	134	322	63	45	107	11	18
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	160.3	87.2	120.5	319	233	552	106	78	184	10	11
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	196.8	96.0	141.5	552	350	902	184	117	301	19	9
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	191.4	103.2	142.6	412	284	696	137	95	232	20	5
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	250.7	136.7	186.6	213	158	371	71	53	124	22	1
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	205.1	87.6	139.9	245	146	391	82	49	130	17	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	169.3	59.3	109.2	248	124	372	83	41	124	4	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	181.5	98.1	136.5	311	229	540	104	76	180	15	7
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	155.0	84.6	116.6	169	130	299	56	43	100	9	10
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	154.5	69.3	107.6	275	182	457	92	61	152	3	17
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	165.2	72.6	113.2	301	173	474	100	58	158	7	8
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	171.6	83.2	122.1	489	316	805	163	105	268	12	3
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	201.9	86.7	137.4	145	80	225	48	27	75	16	2
W06000023	Powys	Powys	Wales / Cymru	WAL	161.7	72.6	111.9	358	225	583	119	75	194	6	20
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	147.3	56.0	93.8	239	139	378	80	46	126	1	21
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	160.6	65.5	107.1	548	324	872	183	108	291	2	12
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	191.7	75.9	126.8	587	330	917	196	110	306	14	15
W06000012	Neath Port Talbot / Castell-nedd Port Talb	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	205.4	96.1	143.7	378	242	620	126	81	207	21	4

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

**Source:** England: Mortality rates not available at time of publication. Number of deaths are taken from NOMIS Mortality Statistics  
Wales: Mortality rates from Health Maps Wales  
Scotland: Mortality rates calculated in partnership with National Records of Scotland.  
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.

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

**Table 1.23 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75														
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived)			
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	4N			
E06000032	Luton	Bedfordshire	East of England	ENG	71.0	23.1	46.6	139	45	184	46	15	61	258	290	40			
E06000055	Bedford	Bedfordshire	East of England	ENG	66.3	13.8	39.6	138	29	167	46	10	56	206	220	154			
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	47.2	12.3	29.4	166	46	212	55	15	71	88	89	264			
E06000036	Bracknell Forest	Berkshire	South East	ENG	41.4	11.5	26.1	56	16	72	19	5	24	46	46	287			
E06000037	West Berkshire	Berkshire	South East	ENG	48.3	8.7	28.2	101	19	120	34	6	40	69	70	291			
E06000038	Reading	Berkshire	South East	ENG	62.4	19.8	40.7	91	29	120	30	10	40	219	237	143			
E06000039	Slough	Berkshire	South East	ENG	93.6	36.7	64.8	115	47	162	38	16	54	318	377	79			
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	42.1	8.2	24.8	78	16	94	26	5	31	35	35	306			
E06000041	Wokingham	Berkshire	South East	ENG	35.3	9.7	22.1	71	20	91	24	7	30	14	14	325			
E06000023	Bristol, City of	Bristol	South West	ENG	61.8	19.2	40.1	259	83	342	86	28	114	212	228	77			
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	57.7	13.3	34.8	164	38	202	55	13	67	165	169	181			
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG	43.8	10.7	26.9	104	27	131	35	9	44	53	53	283			
E07000005	Chiltern	Buckinghamshire	South East	ENG	41.6	7.1	23.7	54	10	64	18	3	21	26	26	324			
E07000006	South Bucks	Buckinghamshire	South East	ENG	49.7	12.0	29.9	44	12	56	15	4	19	96	97	302			
E07000007	Wycombe	Buckinghamshire	South East	ENG	48.6	11.5	29.6	105	26	131	35	9	44	91	92	293			
E06000031	Peterborough	Cambridgeshire	East of England	ENG	71.7	21.7	46.1	147	46	193	49	15	64	254	285	58			
E07000008	Cambridge	Cambridgeshire	East of England	ENG	51.2	17.2	33.9	57	19	76	19	6	25	147	151	227			
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	47.6	17.9	32.4	57	22	79	19	7	26	121	122	255			
E07000010	Fenland	Cambridgeshire	East of England	ENG	63.1	22.6	42.6	93	34	127	31	11	42	235	258	55			
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	41.8	6.7	24.1	102	17	119	34	6	40	29	29	265			
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	33.1	11.2	22.0	69	24	93	23	8	31	13	13	314			
E06000006	Halton	Cheshire	North West	ENG	60.5	35.4	47.6	102	62	164	34	21	55	268	301	36			
E06000007	Warrington	Cheshire	North West	ENG	69.6	19.4	44.0	187	55	242	62	18	81	243	269	176			
E06000049	Cheshire East	Cheshire	North West	ENG	52.3	16.3	33.9	292	94	386	97	31	129	148	152	241			
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	53.3	17.8	35.1	253	88	341	84	29	114	167	171	192			
E06000052	Cornwall and Isles of Scilly	Cornwall	South West	ENG	55.2	16.6	35.2	486	157	643	162	52	214	168	172	68			
E06000001	Hartlepool	County Durham	North East	ENG	77.0	21.8	48.9	94	27	121	31	9	40	276	314	32			
E06000004	Stockton-on-Tees	County Durham	North East	ENG	64.9	18.3	40.9	159	46	205	53	15	68	222	240	130			
E06000005	Darlington	County Durham	North East	ENG	65.9	23.8	44.4	93	35	128	31	12	43	244	271	122			
E06000047	County Durham	County Durham	North East	ENG	59.9	20.9	39.9	436	161	597	145	54	199	210	224	81			
E07000026	Allerdale	Cumbria	North West	ENG	66.5	24.3	45.1	100	38	138	33	13	46	250	279	114			
E07000027	Barrow-in-Furness	Cumbria	North West	ENG	74.3	26.4	50.1	74	26	100	25	9	33	282	320	44			
E07000028	Carlisle	Cumbria	North West	ENG	70.6	20.4	45.1	108	32	140	36	11	47	249	278	112			
E07000029	Copeland	Cumbria	North West	ENG	73.2	32.9	53.4	78	33	111	26	11	37	295	338	63			
E07000030	Eden	Cumbria	North West	ENG	56.5	13.1	34.7	51	12	63	17	4	21	162	166	182			
E07000031	South Lakeland	Cumbria	North West	ENG	40.5	9.4	24.7	73	17	90	24	6	30	34	34	251			
E06000015	Derby	Derbyshire	East Midlands	ENG	66.4	21.3	43.2	184	64	248	61	21	83	238	263	84			
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	55.0	17.6	36.1	103	35	138	34	12	46	175	181	162			
E07000033	Bolsover	Derbyshire	East Midlands	ENG	54.7	20.2	37.3	61	23	84	20	8	28	184	192	61			
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	77.4	23.9	50.1	115	37	152	38	12	51	281	319	85			
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	35.0	12.4	23.5	44	16	60	15	5	20	24	24	258			
E07000036	Erewash	Derbyshire	East Midlands	ENG	56.4	20.9	38.2	87	34	121	29	11	40	195	203	149			
E07000037	High Peak	Derbyshire	East Midlands	ENG	46.0	17.0	31.4	63	24	87	21	8	29	107	108	198			
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	52.0	15.4	33.2	82	26	108	27	9	36	133	137	190			
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	50.5	16.2	33.2	69	22	91	23	7	30	131	135	230			
E06000026	Plymouth	Devon	South West	ENG	63.3	21.3	41.8	201	71	272	67	24	91	229	248	82			
E06000027	Torbay	Devon	South West	ENG	65.6	19.1	41.7	136	44	180	45	15	60	227	246	46			
E07000040	East Devon	Devon	South West	ENG	35.7	6.6	20.5	82	17	99	27	6	33	8	8	246			
E07000041	Exeter	Devon	South West	ENG	67.6	16.1	40.4	85	23	108	28	8	36	216	234	165			
E07000042	Mid Devon	Devon	South West	ENG	51.2	10.3	30.4	62	13	75	21	4	25	101	102	156			
E07000043	North Devon	Devon	South West	ENG	50.0	18.1	33.5	73	29	102	24	10	34	135	139	127			

**Table 1.23 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75														
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived) 4N			
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	4N			
E07000044	South Hams	Devon	South West	ENG	50.2	7.7	28.0	73	13	86	24	4	29	67	68	209			
E07000045	Teignbridge	Devon	South West	ENG	58.4	15.5	36.1	121	35	156	40	12	52	176	182	177			
E07000046	Torridge	Devon	South West	ENG	68.7	15.7	41.5	78	19	97	26	6	32	226	245	67			
E07000047	West Devon	Devon	South West	ENG	62.4	13.2	37.2	59	13	72	20	4	24	182	190	141			
E06000028	Bournemouth	Dorset	South West	ENG	56.9	18.1	37.3	129	42	171	43	14	57	185	193	117			
E06000029	Poole	Dorset	South West	ENG	42.3	10.3	25.8	87	23	110	29	8	37	42	42	208			
E07000048	Christchurch	Dorset	South West	ENG	50.2	11.9	29.8	39	11	50	13	4	17	95	96	259			
E07000049	East Dorset	Dorset	South West	ENG	41.8	10.7	25.5	63	18	81	21	6	27	39	39	303			
E07000050	North Dorset	Dorset	South West	ENG	38.1	9.4	23.4	43	12	55	14	4	18	21	21	210			
E07000051	Purbeck	Dorset	South West	ENG	51.4	14.1	32.2	42	11	53	14	4	18	119	120	211			
E07000052	West Dorset	Dorset	South West	ENG	52.7	7.4	29.0	92	14	106	31	5	35	85	86	207			
E07000053	Weymouth and Portland	Dorset	South West	ENG	68.7	18.4	43.0	71	20	91	24	7	30	237	262	103			
E06000043	Brighton and Hove	East Sussex	South East	ENG	53.6	15.9	34.7	155	46	201	52	15	67	161	165	109			
E07000061	Eastbourne	East Sussex	South East	ENG	45.3	13.0	28.4	64	21	85	21	7	28	71	72	120			
E07000062	Hastings	East Sussex	South East	ENG	94.5	21.1	56.9	118	28	146	39	9	49	308	359	20			
E07000063	Lewes	East Sussex	South East	ENG	37.4	11.3	23.8	55	19	74	18	6	25	27	27	201			
E07000064	Rother	East Sussex	South East	ENG	44.2	12.3	27.5	70	22	92	23	7	31	59	60	148			
E07000065	Wealden	East Sussex	South East	ENG	36.0	9.7	22.3	89	27	116	30	9	39	17	17	276			
E06000033	Southend-on-Sea	Essex	East of England	ENG	53.9	14.3	33.6	124	34	158	41	11	53	137	141	105			
E06000034	Thurrock	Essex	East of England	ENG	64.0	20.2	41.9	116	37	153	39	12	51	230	249	111			
E07000066	Basildon	Essex	East of England	ENG	56.2	17.1	35.8	122	40	162	41	13	54	174	178	113			
E07000067	Braintree	Essex	East of England	ENG	53.7	15.8	34.1	111	34	145	37	11	48	151	155	197			
E07000068	Brentwood	Essex	East of England	ENG	43.7	-	24.2	43	6	49	14	2	16	31	31	294			
E07000069	Castle Point	Essex	East of England	ENG	53.8	12.1	32.1	74	19	93	25	6	31	118	119	187			
E07000070	Chelmsford	Essex	East of England	ENG	46.0	12.3	28.5	102	29	131	34	10	44	74	75	261			
E07000071	Colchester	Essex	East of England	ENG	47.2	13.0	29.4	104	31	135	35	10	45	90	91	185			
E07000072	Epping Forest	Essex	East of England	ENG	40.3	11.5	25.3	67	21	88	22	7	29	38	38	199			
E07000073	Harlow	Essex	East of England	ENG	78.1	21.9	48.4	70	22	92	23	7	31	272	309	71			
E07000074	Maldon	Essex	East of England	ENG	50.1	13.3	31.5	54	15	69	18	5	23	109	110	204			
E07000075	Rochford	Essex	East of England	ENG	32.4	9.1	20.3	42	13	55	14	4	18	7	7	285			
E07000076	Tendring	Essex	East of England	ENG	60.0	17.0	37.5	143	47	190	48	16	63	187	195	49			
E07000077	Uttlesford	Essex	East of England	ENG	46.9	15.0	30.8	56	18	74	19	6	25	103	104	297			
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	50.9	14.2	32.1	178	53	231	59	18	77	116	117	274			
E07000078	Cheltenham	Gloucestershire	South West	ENG	58.7	9.3	32.9	81	14	95	27	5	32	127	131	228			
E07000079	Cotswold	Gloucestershire	South West	ENG	46.0	7.3	25.8	62	11	73	21	4	24	41	41	267			
E07000080	Forest of Dean	Gloucestershire	South West	ENG	55.8	24.8	40.0	76	36	112	25	12	37	211	225	155			
E07000081	Gloucester	Gloucestershire	South West	ENG	85.2	24.5	54.0	128	39	167	43	13	56	296	340	139			
E07000082	Stroud	Gloucestershire	South West	ENG	42.5	13.8	27.8	75	25	100	25	8	33	66	67	281			
E07000083	Tewkesbury	Gloucestershire	South West	ENG	50.2	11.6	30.2	64	16	80	21	5	27	100	101	262			
E09000001	City of London	Greater London	London	ENG	-	-	-	4	1	5	1	0	2	1	1	226			
E09000002	Barking and Dagenham	Greater London	London	ENG	71.1	26.6	48.1	120	43	163	40	14	54	270	306	3			
E09000003	Barnet	Greater London	London	ENG	53.2	11.9	31.5	202	48	250	67	16	83	108	109	157			
E09000004	Bexley	Greater London	London	ENG	54.2	15.1	33.7	145	44	189	48	15	63	142	146	195			
E09000005	Brent	Greater London	London	ENG	69.7	24.1	46.2	214	72	286	71	24	95	255	286	39			
E09000006	Bromley	Greater London	London	ENG	44.3	10.7	26.6	166	45	211	55	15	70	51	51	220			
E09000007	Camden	Greater London	London	ENG	51.0	17.8	33.9	112	41	153	37	14	51	146	150	69			
E09000008	Croydon	Greater London	London	ENG	52.2	16.1	33.1	198	67	265	66	22	88	130	134	91			
E09000009	Ealing	Greater London	London	ENG	70.0	21.4	44.9	229	71	300	76	24	100	247	275	87			
E09000010	Enfield	Greater London	London	ENG	60.0	17.0	37.4	188	59	247	63	20	82	186	194	53			
E09000011	Greenwich	Greater London	London	ENG	68.7	25.1	46.4	166	60	226	55	20	75	256	287	50			
E09000012	Hackney	Greater London	London	ENG	97.0	26.0	59.5	169	48	217	56	16	72	313	367	2			

**Table 1.23 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	
E09000013	Hammersmith and Fulham	Greater London	London	ENG	50.5	21.3	34.8	75	34	109	25	11	36	164	168	76
E09000014	Haringey	Greater London	London	ENG	64.0	20.4	40.6	134	47	181	45	16	60	218	236	21
E09000015	Harrow	Greater London	London	ENG	50.9	16.3	33.0	136	45	181	45	15	60	128	132	213
E09000016	Havering	Greater London	London	ENG	65.0	16.5	39.6	191	53	244	64	18	81	207	221	166
E09000017	Hillingdon	Greater London	London	ENG	62.3	20.6	41.0	184	61	245	61	20	82	223	241	153
E09000018	Hounslow	Greater London	London	ENG	72.5	23.3	47.2	179	59	238	60	20	79	264	296	86
E09000019	Islington	Greater London	London	ENG	75.7	21.0	47.1	127	37	164	42	12	55	261	293	13
E09000020	Kensington and Chelsea	Greater London	London	ENG	37.0	-	19.4	61	8	69	20	3	23	3	3	99
E09000021	Kingston upon Thames	Greater London	London	ENG	44.7	13.5	28.7	76	24	100	25	8	33	77	78	278
E09000022	Lambeth	Greater London	London	ENG	74.6	26.7	49.4	166	57	223	55	19	74	280	318	22
E09000023	Lewisham	Greater London	London	ENG	66.2	22.7	43.3	150	55	205	50	18	68	239	265	26
E09000024	Merton	Greater London	London	ENG	55.5	15.0	34.1	103	30	133	34	10	44	150	154	212
E09000025	Newham	Greater London	London	ENG	71.7	35.5	52.9	165	79	244	55	26	81	294	336	8
E09000026	Redbridge	Greater London	London	ENG	62.1	21.8	41.2	170	62	232	57	21	77	224	242	119
E09000027	Richmond upon Thames	Greater London	London	ENG	41.8	14.4	27.6	90	33	123	30	11	41	61	62	296
E09000028	Southwark	Greater London	London	ENG	62.7	16.1	38.4	142	35	177	47	12	59	198	207	23
E09000029	Sutton	Greater London	London	ENG	47.2	12.1	29.0	104	28	132	35	9	44	84	85	217
E09000030	Tower Hamlets	Greater London	London	ENG	70.5	24.2	47.1	117	38	155	39	13	52	263	295	6
E09000031	Waltham Forest	Greater London	London	ENG	71.2	27.4	48.3	166	64	230	55	21	77	271	307	15
E09000032	Wandsworth	Greater London	London	ENG	59.6	21.3	39.2	132	54	186	44	18	62	202	216	147
E09000033	Westminster	Greater London	London	ENG	47.3	13.1	29.7	105	31	136	35	10	45	92	93	43
E08000001	Bolton	Greater Manchester	North West	ENG	81.7	31.4	56.0	285	113	398	95	38	133	303	351	64
E08000002	Bury	Greater Manchester	North West	ENG	80.1	30.0	54.4	192	75	267	64	25	89	298	343	132
E08000003	Manchester	Greater Manchester	North West	ENG	116.5	51.2	83.3	471	207	678	157	69	226	325	390	1
E08000004	Oldham	Greater Manchester	North West	ENG	105.0	37.0	69.6	277	106	383	92	35	128	321	385	51
E08000005	Rochdale	Greater Manchester	North West	ENG	106.4	39.9	72.3	273	106	379	91	35	126	323	387	25
E08000006	Salford	Greater Manchester	North West	ENG	85.8	28.2	56.7	226	75	301	75	25	100	307	356	27
E08000007	Stockport	Greater Manchester	North West	ENG	57.2	19.0	37.7	219	75	294	73	25	98	188	196	178
E08000008	Tameside	Greater Manchester	North West	ENG	88.5	29.4	58.7	254	86	340	85	29	113	312	366	34
E08000009	Trafford	Greater Manchester	North West	ENG	58.1	15.5	36.3	162	45	207	54	15	69	178	185	222
E08000010	Wigan	Greater Manchester	North West	ENG	72.5	22.2	47.1	323	101	424	108	34	141	262	294	107
E06000044	Portsmouth	Hampshire	South East	ENG	52.5	18.9	35.4	113	41	154	38	14	51	172	176	57
E06000045	Southampton	Hampshire	South East	ENG	81.2	16.7	48.5	194	41	235	65	14	78	273	311	54
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	54.2	13.9	33.6	119	31	150	40	10	50	138	142	275
E07000085	East Hampshire	Hampshire	South East	ENG	41.1	8.3	24.2	73	16	89	24	5	30	32	32	308
E07000086	Eastleigh	Hampshire	South East	ENG	49.6	15.8	32.1	83	28	111	28	9	37	117	118	298
E07000087	Fareham	Hampshire	South East	ENG	30.0	10.1	19.6	51	18	69	17	6	23	4	4	312
E07000088	Gosport	Hampshire	South East	ENG	58.4	10.9	34.1	66	13	79	22	4	26	149	153	131
E07000089	Hart	Hampshire	South East	ENG	30.2	-	18.0	37	9	46	12	3	15	2	2	326
E07000090	Havant	Hampshire	South East	ENG	53.1	15.6	33.7	94	31	125	31	10	42	141	145	142
E07000091	New Forest	Hampshire	South East	ENG	44.1	9.7	26.2	125	32	157	42	11	52	48	48	257
E07000092	Rushmoor	Hampshire	South East	ENG	47.0	12.7	29.8	49	13	62	16	4	21	94	95	205
E07000093	Test Valley	Hampshire	South East	ENG	39.3	16.5	27.6	68	31	99	23	10	33	62	63	286
E07000094	Winchester	Hampshire	South East	ENG	44.5	12.4	28.0	73	21	94	24	7	31	68	69	307
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	51.4	17.2	33.9	149	52	201	50	17	67	145	149	126
E07000095	Broxbourne	Hertfordshire	East of England	ENG	58.1	11.3	33.7	66	14	80	22	5	27	139	143	171
E07000096	Dacorum	Hertfordshire	East of England	ENG	45.3	14.2	29.3	81	28	109	27	9	36	86	87	260
E07000098	Hertsmere	Hertfordshire	East of England	ENG	40.2	13.2	26.0	49	18	67	16	6	22	45	45	247
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	42.5	14.9	28.4	71	26	97	24	9	32	73	74	271
E07000102	Three Rivers	Hertfordshire	East of England	ENG	38.9	16.8	27.4	43	20	63	14	7	21	57	58	300
E07000103	Watford	Hertfordshire	East of England	ENG	60.1	19.7	39.3	55	19	74	18	6	25	204	218	194

**Table 1.23 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75												IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)			
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK		
E07000240	St Albans	Hertfordshire	East of England	ENG	41.2	10.2	25.1	69	18	87	23	6	29	37	37	319	
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	56.5	14.0	34.5	69	18	87	23	6	29	158	162	235	
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	44.0	12.1	27.7	80	23	103	27	8	34	63	64	315	
E07000243	Stevenage	Hertfordshire	East of England	ENG	70.3	20.5	45.2	69	21	90	23	7	30	251	280	137	
E06000046	Isle of Wight	Isle of Wight	South East	ENG	69.1	13.7	40.5	159	36	195	53	12	65	217	235	83	
E06000035	Medway	Kent	South East	ENG	58.3	19.7	38.6	189	66	255	63	22	85	200	209	121	
E07000105	Ashford	Kent	South East	ENG	39.4	14.1	26.4	65	25	90	22	8	30	50	50	173	
E07000106	Canterbury	Kent	South East	ENG	49.8	13.7	30.9	100	31	131	33	10	44	104	105	183	
E07000107	Dartford	Kent	South East	ENG	50.6	20.5	35.3	56	23	79	19	8	26	170	174	170	
E07000108	Dover	Kent	South East	ENG	56.5	15.1	35.4	100	27	127	33	9	42	171	175	116	
E07000109	Gravesham	Kent	South East	ENG	55.7	11.5	33.2	71	15	86	24	5	29	132	136	124	
E07000110	Maidstone	Kent	South East	ENG	41.7	13.1	27.1	90	29	119	30	10	40	55	55	206	
E07000111	Sevenoaks	Kent	South East	ENG	36.5	10.1	22.8	60	18	78	20	6	26	18	18	272	
E07000112	Shepway	Kent	South East	ENG	53.0	15.0	33.6	89	27	116	30	9	39	136	140	104	
E07000113	Swale	Kent	South East	ENG	48.9	17.2	32.8	96	35	131	32	12	44	126	128	88	
E07000114	Thanet	Kent	South East	ENG	59.1	18.8	38.1	121	42	163	40	14	54	192	200	35	
E07000115	Tonbridge and Malling	Kent	South East	ENG	41.8	11.1	25.9	69	19	88	23	6	29	44	44	277	
E07000116	Tunbridge Wells	Kent	South East	ENG	40.6	18.5	29.3	60	29	89	20	10	30	87	88	279	
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	109.9	42.6	76.0	181	70	251	60	23	84	324	388	24	
E06000009	Blackpool	Lancashire	North West	ENG	101.9	39.4	70.5	198	78	276	66	26	92	322	386	4	
E07000117	Burnley	Lancashire	North West	ENG	80.2	36.0	57.7	91	43	134	30	14	45	311	362	17	
E07000118	Chorley	Lancashire	North West	ENG	63.1	13.2	38.1	104	22	126	35	7	42	191	199	186	
E07000119	Fylde	Lancashire	North West	ENG	55.0	18.8	36.6	68	27	95	23	9	32	179	186	218	
E07000120	Hyndburn	Lancashire	North West	ENG	97.5	34.1	65.4	101	37	138	34	12	46	319	378	28	
E07000121	Lancaster	Lancashire	North West	ENG	61.6	20.0	40.2	111	38	149	37	13	50	213	231	125	
E07000122	Pendle	Lancashire	North West	ENG	78.3	36.0	57.0	92	44	136	31	15	45	309	360	42	
E07000123	Preston	Lancashire	North West	ENG	85.5	24.2	54.7	130	37	167	43	12	56	299	345	72	
E07000124	Ribble Valley	Lancashire	North West	ENG	67.4	20.7	43.5	62	19	81	21	6	27	240	266	290	
E07000125	Rossendale	Lancashire	North West	ENG	73.3	28.8	50.7	70	28	98	23	9	33	286	327	98	
E07000126	South Ribble	Lancashire	North West	ENG	48.5	19.3	33.5	74	32	106	25	11	35	134	138	234	
E07000127	West Lancashire	Lancashire	North West	ENG	55.7	25.4	39.9	87	44	131	29	15	44	209	223	164	
E07000128	Wyre	Lancashire	North West	ENG	64.5	17.6	40.4	112	33	145	37	11	48	215	233	167	
E06000016	Leicester	Leicestershire	East Midlands	ENG	94.4	29.0	61.2	301	90	391	100	30	130	315	372	14	
E07000129	Blaby	Leicestershire	East Midlands	ENG	43.9	17.0	30.2	58	24	82	19	8	27	99	100	288	
E07000130	Charnwood	Leicestershire	East Midlands	ENG	47.1	16.7	31.6	103	38	141	34	13	47	111	112	237	
E07000131	Harrowborough	Leicestershire	East Midlands	ENG	42.2	9.1	25.6	57	12	69	19	4	23	40	40	311	
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	54.5	9.6	31.7	89	16	105	30	5	35	113	114	248	
E07000133	Melton	Leicestershire	East Midlands	ENG	44.7	18.5	31.5	35	15	50	12	5	17	110	111	236	
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	49.4	20.1	34.7	71	29	100	24	10	33	163	167	214	
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	68.4	18.8	42.4	49	15	64	16	5	21	233	255	249	
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	84.0	19.4	51.1	179	43	222	60	14	74	290	332	65	
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	57.6	16.2	36.7	141	40	181	47	13	60	180	187	135	
E07000136	Boston	Lincolnshire	East Midlands	ENG	74.4	28.1	50.9	69	27	96	23	9	32	287	329	66	
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	78.7	27.1	52.2	200	73	273	67	24	91	293	335	33	
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	90.3	23.2	56.1	93	25	118	31	8	39	304	352	45	
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	49.3	20.6	34.5	83	39	122	28	13	41	157	161	266	
E07000140	South Holland	Lincolnshire	East Midlands	ENG	75.8	22.6	48.7	106	33	139	35	11	46	275	313	134	
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	56.3	12.4	33.7	118	28	146	39	9	49	140	144	223	
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	59.6	11.7	35.2	91	19	110	30	6	37	169	173	152	
E08000011	Knowsley	Merseyside	North West	ENG	81.7	31.0	54.9	142	59	201	47	20	67	300	347	5	
E08000012	Liverpool	Merseyside	North West	ENG	87.1	25.1	55.2	447	133	580	149	44	193	302	349	7	

**Table 1.23 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	
E08000013	St. Helens	Merseyside	North West	ENG	82.2	21.3	51.0	204	55	259	68	18	86	288	330	52
E08000014	Sefton	Merseyside	North West	ENG	64.4	18.7	40.3	249	80	329	83	27	110	214	232	102
E08000015	Wirral	Merseyside	North West	ENG	61.1	22.0	40.8	272	106	378	91	35	126	220	238	106
E07000143	Breckland	Norfolk	East of England	ENG	43.6	12.0	27.5	93	26	119	31	9	40	58	59	129
E07000144	Broadland	Norfolk	East of England	ENG	45.4	12.5	28.4	90	27	117	30	9	39	72	73	273
E07000145	Great Yarmouth	Norfolk	East of England	ENG	73.7	15.0	43.8	109	24	133	36	8	44	242	268	29
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	48.3	20.4	33.8	113	52	165	38	17	55	144	148	89
E07000147	North Norfolk	Norfolk	East of England	ENG	47.2	10.8	28.5	92	22	114	31	7	38	76	77	93
E07000148	Norwich	Norfolk	East of England	ENG	77.6	17.0	46.4	107	25	132	36	8	44	257	288	47
E07000149	South Norfolk	Norfolk	East of England	ENG	38.0	13.0	25.1	76	29	105	25	10	35	36	36	229
E07000150	Corby	Northamptonshire	East Midlands	ENG	68.7	30.8	48.9	53	25	78	18	8	26	277	315	75
E07000151	Daventry	Northamptonshire	East Midlands	ENG	52.9	13.2	33.0	65	17	82	22	6	27	129	133	238
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG	58.9	20.7	39.5	78	28	106	26	9	35	205	219	221
E07000153	Kettering	Northamptonshire	East Midlands	ENG	64.9	10.9	37.3	84	15	99	28	5	33	183	191	168
E07000154	Northampton	Northamptonshire	East Midlands	ENG	73.9	22.5	47.5	181	58	239	60	19	80	267	299	108
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG	44.5	13.7	28.8	59	18	77	20	6	26	80	81	317
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG	57.7	22.0	39.3	60	24	84	20	8	28	203	217	133
E06000057	Northumberland	Northumberland	North East	ENG	62.1	22.6	41.7	311	119	430	104	40	143	228	247	145
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	93.1	31.2	62.0	262	87	349	87	29	116	316	373	10
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	74.3	21.0	47.3	125	37	162	42	12	54	266	298	70
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	55.0	21.3	38.0	94	38	132	31	13	44	190	198	115
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	54.7	15.5	34.6	84	25	109	28	8	36	159	163	219
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	48.2	12.8	29.9	77	22	99	26	7	33	97	98	202
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	61.7	21.3	41.4	90	32	122	30	11	41	225	244	59
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	52.6	16.5	34.2	92	30	122	31	10	41	153	157	158
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	45.7	10.2	27.5	73	17	90	24	6	30	60	61	318
E07000177	Cherwell	Oxfordshire	South East	ENG	49.9	13.3	31.3	92	25	117	31	8	39	106	107	256
E07000178	Oxford	Oxfordshire	South East	ENG	45.1	17.1	30.6	58	23	81	19	8	27	102	103	169
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	35.0	7.3	20.6	65	15	80	22	5	27	9	9	309
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	37.1	10.5	23.5	64	19	83	21	6	28	22	22	310
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	37.6	10.3	23.3	56	16	72	19	5	24	20	20	316
E06000017	Rutland	Rutland	East Midlands	ENG	50.3	-	31.6	29	8	37	10	3	12	112	113	299
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	64.3	20.6	42.0	140	46	186	47	15	62	231	250	97
E06000051	Shropshire	Shropshire	West Midlands	ENG	54.5	15.3	34.4	264	80	344	88	27	115	156	160	175
E06000022	Bath and North East Somerset	Somerset	South West	ENG	46.8	11.0	28.2	106	27	133	35	9	44	70	71	268
E06000024	North Somerset	Somerset	South West	ENG	48.8	12.0	29.8	151	40	191	50	13	64	93	94	224
E07000187	Mendip	Somerset	South West	ENG	40.7	13.0	26.4	67	23	90	22	8	30	49	49	160
E07000188	Sedgemoor	Somerset	South West	ENG	55.2	11.0	32.6	101	21	122	34	7	41	124	125	146
E07000189	South Somerset	Somerset	South West	ENG	47.3	10.5	28.5	123	29	152	41	10	51	75	76	180
E07000190	Taunton Deane	Somerset	South West	ENG	55.0	11.5	32.5	90	20	110	30	7	37	123	124	193
E07000191	West Somerset	Somerset	South West	ENG	30.7	13.8	21.9	19	10	29	6	3	10	11	11	56
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	80.4	21.8	51.0	251	68	319	84	23	106	289	331	18
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	74.6	25.0	49.4	99	34	133	33	11	44	279	317	128
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	62.8	14.1	38.3	98	22	120	33	7	40	197	206	163
E07000194	Lichfield	Staffordshire	West Midlands	ENG	47.1	11.2	28.7	76	20	96	25	7	32	79	80	252
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	75.7	27.6	51.3	131	50	181	44	17	60	291	333	161
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	52.8	17.2	34.6	90	32	122	30	11	41	160	164	253
E07000197	Stafford	Staffordshire	West Midlands	ENG	46.7	11.6	28.9	91	24	115	30	8	38	82	83	243
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	50.1	15.0	32.3	81	24	105	27	8	35	120	121	203
E07000199	Tamworth	Staffordshire	West Midlands	ENG	68.7	23.3	45.5	70	25	95	23	8	32	253	282	144
E07000200	Babergh	Suffolk	East of England	ENG	36.4	8.8	22.1	52	14	66	17	5	22	15	15	200



**Table 1.23 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75														IMD - Rank of average rank (1= most deprived) 4N
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)					
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK				
E07000201	Forest Heath	Suffolk	East of England	ENG	62.3	-	33.7	47	5	52	16	2	17	143	147	140			
E07000202	Ipswich	Suffolk	East of England	ENG	76.1	19.1	47.0	116	30	146	39	10	49	260	292	74			
E07000203	Mid Suffolk	Suffolk	East of England	ENG	36.2	16.3	26.1	58	27	85	19	9	28	47	47	239			
E07000204	St Edmundsbury	Suffolk	East of England	ENG	42.6	20.5	31.2	67	34	101	22	11	34	105	106	196			
E07000205	Suffolk Coastal	Suffolk	East of England	ENG	37.5	10.6	23.6	77	24	101	26	8	34	25	25	240			
E07000206	Waveney	Suffolk	East of England	ENG	56.3	20.4	37.7	103	40	143	34	13	48	189	197	95			
E07000207	Elmbridge	Surrey	South East	ENG	36.5	12.6	24.1	59	22	81	20	7	27	30	30	322			
E07000208	Epsom and Ewell	Surrey	South East	ENG	41.0	9.7	24.6	38	10	48	13	3	16	33	33	313			
E07000209	Guildford	Surrey	South East	ENG	33.0	8.8	20.6	55	15	70	18	5	23	10	10	304			
E07000210	Mole Valley	Surrey	South East	ENG	38.7	-	21.9	49	8	57	16	3	19	12	12	305			
E07000211	Reigate and Banstead	Surrey	South East	ENG	43.0	13.2	27.7	76	24	100	25	8	33	65	66	292			
E07000212	Runnymede	Surrey	South East	ENG	50.9	13.0	31.7	51	13	64	17	4	21	114	115	280			
E07000213	Spelthorne	Surrey	South East	ENG	52.5	16.4	34.2	65	21	86	22	7	29	155	159	233			
E07000214	Surrey Heath	Surrey	South East	ENG	35.6	9.2	22.2	42	11	53	14	4	18	16	16	320			
E07000215	Tandridge	Surrey	South East	ENG	50.6	9.6	29.4	59	12	71	20	4	24	89	90	284			
E07000216	Waverley	Surrey	South East	ENG	36.5	11.0	23.3	60	20	80	20	7	27	19	19	323			
E07000217	Woking	Surrey	South East	ENG	40.1	13.9	27.0	49	16	65	16	5	22	54	54	301			
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	72.3	22.7	47.2	217	69	286	72	23	95	265	297	92			
E08000022	North Tyneside	Tyne & Wear	North East	ENG	75.1	22.6	47.7	204	66	270	68	22	90	269	303	138			
E08000023	South Tyneside	Tyne & Wear	North East	ENG	67.6	21.4	43.7	135	46	181	45	15	60	241	267	31			
E08000024	Sunderland	Tyne & Wear	North East	ENG	71.5	24.7	47.0	256	98	354	85	33	118	259	291	38			
E08000037	Gateshead	Tyne & Wear	North East	ENG	73.2	26.5	49.1	189	73	262	63	24	87	278	316	80			
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	56.9	20.0	38.3	54	20	74	18	7	25	196	205	179			
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	66.4	23.6	44.6	114	42	156	38	14	52	245	272	110			
E07000220	Rugby	Warwickshire	West Midlands	ENG	51.8	21.0	36.2	71	30	101	24	10	34	177	184	244			
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	47.8	10.8	28.8	95	23	118	32	8	39	81	82	263			
E07000222	Warwick	Warwickshire	West Midlands	ENG	48.2	12.4	30.0	84	23	107	28	8	36	98	99	269			
E08000025	Birmingham	West Midlands	West Midlands	ENG	82.7	29.4	55.2	857	317	1,174	286	106	391	301	348	11			
E08000026	Coventry	West Midlands	West Midlands	ENG	82.0	20.3	50.5	281	72	353	94	24	118	283	323	60			
E08000027	Dudley	West Midlands	West Midlands	ENG	58.2	19.5	38.5	247	87	334	82	29	111	199	208	118			
E08000028	Sandwell	West Midlands	West Midlands	ENG	97.9	29.6	63.1	337	105	442	112	35	147	317	375	12			
E08000029	Solihull	West Midlands	West Midlands	ENG	48.9	16.1	32.0	139	50	189	46	17	63	115	116	216			
E08000030	Walsall	West Midlands	West Midlands	ENG	83.3	30.6	56.3	274	106	380	91	35	127	306	354	41			
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	91.1	25.3	57.4	262	76	338	87	25	113	310	361	19			
E07000223	Adur	West Sussex	South East	ENG	46.7	13.0	29.0	42	13	55	14	4	18	83	84	150			
E07000224	Arun	West Sussex	South East	ENG	67.7	14.9	39.8	164	43	207	55	14	69	208	222	174			
E07000225	Chichester	West Sussex	South East	ENG	48.4	8.1	27.2	88	17	105	29	6	35	56	56	231			
E07000226	Crawley	West Sussex	South East	ENG	62.6	23.4	42.5	70	27	97	23	9	32	234	256	151			
E07000227	Horsham	West Sussex	South East	ENG	31.5	9.2	20.1	63	19	82	21	6	27	6	6	295			
E07000228	Mid Sussex	West Sussex	South East	ENG	37.6	10.5	23.5	73	22	95	24	7	32	23	23	321			
E07000229	Worthing	West Sussex	South East	ENG	69.0	15.0	40.8	100	24	124	33	8	41	221	239	172			
E06000030	Swindon	Wiltshire	South West	ENG	56.3	14.3	34.9	143	37	180	48	12	60	166	170	189			
E06000054	Wiltshire	Wiltshire	South West	ENG	42.0	12.0	26.6	286	87	373	95	29	124	52	52	232			
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	42.1	-	23.9	59	9	68	20	3	23	28	28	282			
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	32.6	7.7	19.8	42	10	52	14	3	17	5	5	188			
E07000236	Redditch	Worcestershire	West Midlands	ENG	57.0	11.5	34.1	64	13	77	21	4	26	152	156	136			
E07000237	Worcester	Worcestershire	West Midlands	ENG	66.6	12.1	38.8	79	15	94	26	5	31	201	211	159			
E07000238	Wychavon	Worcestershire	West Midlands	ENG	42.2	13.6	27.7	84	27	111	28	9	37	64	65	191			
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	55.9	16.3	35.7	89	27	116	30	9	39	173	177	123			
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	91.2	29.1	59.8	262	85	347	87	28	116	314	368	9			
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	57.5	19.8	38.1	317	117	434	106	39	145	193	201	215			

**Table 1.23 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75														
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)		IMD - Rank of average rank (1= most deprived)			
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK	4N			
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	100.0	36.9	67.4	158	63	221	53	21	74	320	382	16			
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	76.6	33.6	54.3	148	70	218	49	23	73	297	341	78			
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	52.1	14.4	32.4	125	38	163	42	13	54	122	123	270			
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	40.4	12.5	25.9	37	13	50	12	4	17	43	43	250			
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	49.4	19.8	34.2	74	31	105	25	10	35	154	158	245			
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	51.9	15.0	32.8	119	37	156	40	12	52	125	126	289			
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	54.9	19.3	37.0	41	15	56	14	5	19	181	188	225			
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	48.6	-	28.7	47	9	56	16	3	19	78	79	184			
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	73.1	18.6	44.9	129	37	166	43	12	55	246	274	90			
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	60.4	16.4	38.1	76	21	97	25	7	32	194	202	254			
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	70.2	21.1	45.3	231	71	302	77	24	101	252	281	37			
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	75.5	22.8	48.6	302	95	397	101	32	132	274	312	48			
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	61.7	24.1	42.7	218	89	307	73	30	102	236	259	62			
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	67.1	24.1	45.0	416	158	574	139	53	191	248	277	94			
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	84.3	29.6	56.1	470	175	645	157	58	215	305	353	30			
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	75.9	26.0	50.6	210	73	283	70	24	94	285	326	96			
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	63.4	22.0	42.2	338	121	459	113	40	153	232	252	101			
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	79.5	23.6	50.6	653	208	861	218	69	287	284	325	100			
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	77.5	26.9	51.8	351	126	477	117	42	159	292	334	73			
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	51.3	15.8	32.8	85	28	113	28	9	38	3	130	9			
N09000002	Armagh City, Banbridge & Craigavon		Northern Ireland	NI	61.6	17.5	38.9	147	43	190	49	14	63	6	212	7			
N09000003	Belfast		Northern Ireland	NI	87.0	27.2	55.3	299	103	402	100	34	134	11	350	2			
N09000004	Causeway Coast & Glens		Northern Ireland	NI	56.3	20.6	38.2	104	39	143	35	13	48	5	204	6			
N09000005	Derry City & Strabane		Northern Ireland	NI	65.1	21.0	42.5	111	37	148	37	12	49	10	257	1			
N09000006	Fermanagh & Omagh		Northern Ireland	NI	49.9	15.6	32.8	71	22	93	24	7	31	1	127	4			
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	50.9	16.3	32.8	86	29	115	29	10	38	2	129	11			
N09000008	Mid & East Antrim		Northern Ireland	NI	60.2	21.0	40.1	108	40	148	36	13	49	7	227	8			
N09000009	Mid Ulster		Northern Ireland	NI	58.7	26.0	42.3	92	40	132	31	13	44	9	254	5			
N09000010	Newry, Mourne & Down		Northern Ireland	NI	60.8	20.4	40.1	120	42	162	40	14	54	8	229	3			
N09000011	Ards & North Down		Northern Ireland	NI	52.5	20.4	35.8	120	49	169	40	16	56	4	179	10			
S12000005	Clackmannanshire		Scotland	SCO	82.2	33.2	56.8	60	26	86	20	9	29	22	357	8			
S12000006	Dumfries & Galloway		Scotland	SCO	81.1	27.7	53.5	197	73	270	66	24	90	20	339	14			
S12000008	East Ayrshire		Scotland	SCO	93.8	39.9	65.7	158	73	231	53	24	77	28	379	6			
S12000010	East Lothian		Scotland	SCO	63.7	22.3	42.1	91	34	125	30	11	42	7	251	22			
S12000011	East Renfrewshire		Scotland	SCO	56.7	19.8	37.1	68	27	95	23	9	32	3	189	32			
S12000013	Eilean Siar		Scotland	SCO	101.2	26.1	63.4	45	11	56	15	4	19	27	376	11			
S12000014	Falkirk		Scotland	SCO	90.1	32.2	60.2	190	72	262	63	24	87	25	370	16			
S12000015	Fife		Scotland	SCO	78.3	29.4	53.0	404	161	565	135	54	188	19	337	17			
S12000017	Highland		Scotland	SCO	74.9	18.2	45.9	265	68	333	88	23	111	11	284	19			
S12000018	Inverclyde		Scotland	SCO	94.6	25.9	58.4	105	31	136	35	10	45	23	363	5			
S12000019	Midlothian		Scotland	SCO	67.7	29.6	47.8	80	38	118	27	13	39	14	305	15			
S12000020	Moray		Scotland	SCO	64.7	19.7	41.3	86	29	115	29	10	38	6	243	24			
S12000021	North Ayrshire		Scotland	SCO	94.3	34.2	62.4	185	75	260	62	25	87	26	374	3			
S12000023	Orkney Islands		Scotland	SCO	65.5	19.2	42.2	23	7	30	8	2	10	8	253	25			
S12000024	Perth & Kinross		Scotland	SCO	56.2	25.0	40.1	123	59	182	41	20	61	5	230	27			
S12000026	Scottish Borders		Scotland	SCO	58.9	20.5	39.2	108	40	148	36	13	49	4	215	20			
S12000027	Shetland Islands		Scotland	SCO	109.2	21.4	65.7	36	7	43	12	2	14	29	380	26			
S12000028	South Ayrshire		Scotland	SCO	80.0	24.3	50.8	138	47	185	46	16	62	18	328	12			
S12000029	South Lanarkshire		Scotland	SCO	79.8	23.6	50.5	340	109	449	113	36	150	17	324	9			
S12000030	Stirling		Scotland	SCO	67.2	22.6	44.1	81	29	110	27	10	37	10	270	23			
S12000033	Aberdeen City		Scotland	SCO	72.3	24.2	47.8	183	62	245	61	21	82	13	304	29			

**Table 1.23 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75												IMD - Rank of average rank (1= most deprived) 4N
					Age standardised CHD death rates per 100,000			Total number of premature CHD deaths 2015/17			Average number of annual CHD deaths for 2015/17			ASDR Rank (1 = lowest death rate)			
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK		
S12000034	Aberdeenshire		Scotland	SCO	55.0	17.8	36.2	199	65	264	66	22	88	2	183	30	
S12000035	Argyll & Bute		Scotland	SCO	74.6	23.8	48.5	106	36	142	35	12	47	15	310	18	
S12000036	City of Edinburgh		Scotland	SCO	69.5	27.4	47.7	369	155	524	123	52	175	12	302	28	
S12000038	Renfrewshire		Scotland	SCO	88.6	24.4	54.8	204	61	265	68	20	88	21	346	10	
S12000039	West Dunbartonshire		Scotland	SCO	112.3	30.0	68.9	129	38	167	43	13	56	30	383	1	
S12000040	West Lothian		Scotland	SCO	73.6	28.7	50.3	164	67	231	55	22	77	16	322	13	
S12000041	Angus		Scotland	SCO	62.2	25.5	43.2	107	48	155	36	16	52	9	264	21	
S12000042	Dundee City		Scotland	SCO	106.3	36.0	69.4	178	68	246	59	23	82	31	384	7	
S12000044	North Lanarkshire		Scotland	SCO	93.5	30.1	60.1	392	137	529	131	46	176	24	369	4	
S12000045	East Dunbartonshire		Scotland	SCO	55.1	19.1	36.0	81	32	113	27	11	38	1	180	31	
S12000046	Glasgow City		Scotland	SCO	117.4	42.6	78.3	736	282	1,018	245	94	339	32	389	2	
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	75.4	21.2	47.5	138	42	216	46	14	72	12	300	16	
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	84.3	26.0	54.4	123	42	168	41	14	56	16	344	13	
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	74.0	17.4	44.9	162	42	186	54	14	62	9	276	19	
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	69.5	22.7	45.8	129	42	180	43	14	60	10	283	14	
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	62.6	16.5	39.2	72	21	135	24	7	45	4	214	18	
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	66.5	27.9	46.6	129	57	234	43	19	78	11	289	11	
W06000010	Cardiganshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	86.1	28.9	56.8	246	87	351	82	29	117	18	358	9	
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	84.4	33.7	58.4	204	84	285	68	28	95	19	364	5	
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	95.1	39.7	67.0	93	39	159	31	13	53	22	381	1	
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	87.4	27.0	56.3	108	36	147	36	12	49	17	355	6	
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	66.9	12.6	39.1	96	21	123	32	7	41	3	213	22	
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	84.2	26.1	54.3	150	48	228	50	16	76	15	342	7	
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	63.6	23.0	42.9	72	27	129	24	9	43	7	261	10	
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	65.5	14.8	40.0	114	27	183	38	9	61	5	226	17	
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	66.5	24.7	44.8	129	51	174	43	17	58	8	273	8	
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	70.1	27.8	48.4	219	90	315	73	30	105	13	308	3	
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	93.8	28.6	60.4	72	24	81	24	8	27	21	371	2	
W06000023	Powys	Powys	Wales / Cymru	WAL	57.3	20.4	38.6	126	45	225	42	15	75	2	210	20	
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	42.7	13.4	27.3	75	27	138	25	9	46	1	57	21	
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	70.8	16.2	42.7	255	60	324	85	20	108	6	260	12	
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgor	Wales / Cymru	WAL	83.5	20.0	50.2	252	66	330	84	22	110	14	321	15	
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgor	Wales / Cymru	WAL	88.5	30.4	58.6	174	63	243	58	21	81	20	365	4	

**Notes:** ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population.  
- indicates number of deaths considered too small to calculate rate.

**Source:** England: Mortality rates from Public Health England Public Health Profiles <https://fingertips.phe.org.uk/profile/mortality-profile>  
Wales: Mortality rates from Health Maps Wales <https://www.healthmapswales.wales.nhs.uk>  
Scotland: Mortality rates calculated in partnership with National Records of Scotland.  
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.

**Table 1.24 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2014/16			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
					Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E06000001	Hartlepool	County Durham	North East	ENG				85	98	183	28	33	61		32	
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG				118	173	291	39	58	97		16	
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG				136	180	316	45	60	105		78	
E06000004	Stockton-on-Tees	County Durham	North East	ENG				143	192	335	48	64	112		130	
E06000005	Darlington	County Durham	North East	ENG				80	117	197	27	39	66		122	
E06000006	Halton	Cheshire	North West	ENG				94	122	216	31	41	72		36	
E06000007	Warrington	Cheshire	North West	ENG				146	211	357	49	70	119		176	
E06000008	Blackburn with Darwen	Lancashire	North West	ENG				94	104	198	31	35	66		24	
E06000009	Blackpool	Lancashire	North West	ENG				126	207	333	42	69	111		4	
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				216	303	519	72	101	173		9	
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG				370	479	849	123	160	283		215	
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				152	159	311	51	53	104		65	
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG				156	205	361	52	68	120		135	
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				145	220	365	48	73	122		270	
E06000015	Derby	Derbyshire	East Midlands	ENG				176	242	418	59	81	139		84	
E06000016	Leicester	Leicestershire	East Midlands	ENG				192	257	449	64	86	150		14	
E06000017	Rutland	Rutland	East Midlands	ENG				26	36	62	9	12	21		299	
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG				170	222	392	57	74	131		10	
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG				175	278	453	58	93	151		126	
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG				110	145	255	37	48	85		97	
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG				159	193	352	53	64	117		18	
E06000022	Bath and North East Somerset	Somerset	South West	ENG				111	217	328	37	72	109		268	
E06000023	Bristol, City of	Bristol	South West	ENG				202	334	536	67	111	179		77	
E06000024	North Somerset	Somerset	South West	ENG				196	279	475	65	93	158		224	
E06000025	South Gloucestershire	Gloucestershire	South West	ENG				178	238	416	59	79	139		274	
E06000026	Plymouth	Devon	South West	ENG				163	279	442	54	93	147		82	
E06000027	Torbay	Devon	South West	ENG				148	236	384	49	79	128		46	
E06000028	Bournemouth	Dorset	South West	ENG				163	235	398	54	78	133		117	
E06000029	Poole	Dorset	South West	ENG				116	202	318	39	67	106		208	
E06000030	Swindon	Wiltshire	South West	ENG				127	164	291	42	55	97		189	
E06000031	Peterborough	Cambridgeshire	East of England	ENG				119	161	280	40	54	93		58	
E06000032	Luton	Bedfordshire	East of England	ENG				143	141	284	48	47	95		40	
E06000033	Southend-on-Sea	Essex	East of England	ENG				120	150	270	40	50	90		105	
E06000034	Thurrock	Essex	East of England	ENG				90	129	219	30	43	73		111	
E06000035	Medway	Kent	South East	ENG				137	169	306	46	56	102		121	
E06000036	Bracknell Forest	Berkshire	South East	ENG				55	63	118	18	21	39		287	
E06000037	West Berkshire	Berkshire	South East	ENG				93	125	218	31	42	73		291	
E06000038	Reading	Berkshire	South East	ENG				104	101	205	35	34	68		143	
E06000039	Slough	Berkshire	South East	ENG				73	90	163	24	30	54		79	
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG				106	173	279	35	58	93		306	
E06000041	Wokingham	Berkshire	South East	ENG				102	127	229	34	42	76		325	
E06000042	Milton Keynes	Buckinghamshire	South East	ENG				148	192	340	49	64	113		181	
E06000043	Brighton and Hove	East Sussex	South East	ENG				160	265	425	53	88	142		109	
E06000044	Portsmouth	Hampshire	South East	ENG				132	193	325	44	64	108		57	
E06000045	Southampton	Hampshire	South East	ENG				99	194	293	33	65	98		54	
E06000046	Isle of Wight	Isle of Wight	South East	ENG				118	176	294	39	59	98		83	
E06000047	County Durham	County Durham	North East	ENG				456	628	1,084	152	209	361		81	
E06000049	Cheshire East	Cheshire	North West	ENG				283	430	713	94	143	238		241	
E06000050	Cheshire West and Chester	Cheshire	North West	ENG				264	353	617	88	118	206		192	
E06000051	Shropshire	Shropshire	West Midlands	ENG				278	466	744	93	155	248		175	
E06000052	Cornwall and Isles of Scilly	Cornwall	South West	ENG				620	915	1,535	207	305	512		68	

**Table 1.24 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2014/16			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
					Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E06000054	Wiltshire	Wiltshire	South West	ENG				408	576	984	136	192	328		232	
E06000055	Bedford	Bedfordshire	East of England	ENG				128	142	270	43	47	90		154	
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG				159	229	388	53	76	129		264	
E06000057	Northumberland	Northumberland	North East	ENG				312	417	729	104	139	243		145	
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG				108	149	257	36	50	86		283	
E07000005	Chiltern	Buckinghamshire	South East	ENG				59	82	141	20	27	47		324	
E07000006	South Bucks	Buckinghamshire	South East	ENG				45	87	132	15	29	44		302	
E07000007	Wycombe	Buckinghamshire	South East	ENG				103	126	229	34	42	76		293	
E07000008	Cambridge	Cambridgeshire	East of England	ENG				76	114	190	25	38	63		227	
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG				66	84	150	22	28	50		255	
E07000010	Fenland	Cambridgeshire	East of England	ENG				90	98	188	30	33	63		55	
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG				134	148	282	45	49	94		265	
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG				104	126	230	35	42	77		314	
E07000026	Allerdale	Cumbria	North West	ENG				119	140	259	40	47	86		114	
E07000027	Barrow-in-Furness	Cumbria	North West	ENG				59	91	150	20	30	50		44	
E07000028	Carlisle	Cumbria	North West	ENG				98	151	249	33	50	83		112	
E07000029	Copeland	Cumbria	North West	ENG				57	75	132	19	25	44		63	
E07000030	Eden	Cumbria	North West	ENG				47	64	111	16	21	37		182	
E07000031	South Lakeland	Cumbria	North West	ENG				119	205	324	40	68	108		251	
E07000032	Amber Valley	Derbyshire	East Midlands	ENG				97	147	244	32	49	81		162	
E07000033	Bolsover	Derbyshire	East Midlands	ENG				57	91	148	19	30	49		61	
E07000034	Chesterfield	Derbyshire	East Midlands	ENG				104	103	207	35	34	69		85	
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG				58	83	141	19	28	47		258	
E07000036	Erewash	Derbyshire	East Midlands	ENG				112	146	258	37	49	86		149	
E07000037	High Peak	Derbyshire	East Midlands	ENG				55	101	156	18	34	52		198	
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG				85	128	213	28	43	71		190	
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG				61	97	158	20	32	53		230	
E07000040	East Devon	Devon	South West	ENG				163	283	446	54	94	149		246	
E07000041	Exeter	Devon	South West	ENG				86	112	198	29	37	66		165	
E07000042	Mid Devon	Devon	South West	ENG				81	101	182	27	34	61		156	
E07000043	North Devon	Devon	South West	ENG				142	199	341	47	66	114		127	
E07000044	South Hams	Devon	South West	ENG				89	125	214	30	42	71		209	
E07000045	Teignbridge	Devon	South West	ENG				147	224	371	49	75	124		177	
E07000046	Torridge	Devon	South West	ENG				93	154	247	31	51	82		67	
E07000047	West Devon	Devon	South West	ENG				50	79	129	17	26	43		141	
E07000048	Christchurch	Dorset	South West	ENG				82	95	177	27	32	59		259	
E07000049	East Dorset	Dorset	South West	ENG				119	169	288	40	56	96		303	
E07000050	North Dorset	Dorset	South West	ENG				69	97	166	23	32	55		210	
E07000051	Purbeck	Dorset	South West	ENG				46	58	104	15	19	35		211	
E07000052	West Dorset	Dorset	South West	ENG				129	222	351	43	74	117		207	
E07000053	Weymouth and Portland	Dorset	South West	ENG				74	95	169	25	32	56		103	
E07000061	Eastbourne	East Sussex	South East	ENG				105	143	248	35	48	83		120	
E07000062	Hastings	East Sussex	South East	ENG				66	101	167	22	34	56		20	
E07000063	Lewes	East Sussex	South East	ENG				102	138	240	34	46	80		201	
E07000064	Rother	East Sussex	South East	ENG				85	160	245	28	53	82		148	
E07000065	Wealden	East Sussex	South East	ENG				128	218	346	43	73	115		276	
E07000066	Basildon	Essex	East of England	ENG				126	164	290	42	55	97		113	
E07000067	Braintree	Essex	East of England	ENG				110	159	269	37	53	90		197	
E07000068	Brentwood	Essex	East of England	ENG				58	81	139	19	27	46		294	
E07000069	Castle Point	Essex	East of England	ENG				82	104	186	27	35	62		187	
E07000070	Chelmsford	Essex	East of England	ENG				128	153	281	43	51	94		261	

**Table 1.24 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2014/16			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
					Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E07000071	Colchester	Essex	East of England	ENG				113	135	248	38	45	83		185	
E07000072	Epping Forest	Essex	East of England	ENG				100	123	223	33	41	74		199	
E07000073	Harlow	Essex	East of England	ENG				54	67	121	18	22	40		71	
E07000074	Maldon	Essex	East of England	ENG				67	62	129	22	21	43		204	
E07000075	Rochford	Essex	East of England	ENG				61	64	125	20	21	42		285	
E07000076	Tendring	Essex	East of England	ENG				138	202	340	46	67	113		49	
E07000077	Uttlesford	Essex	East of England	ENG				68	73	141	23	24	47		297	
E07000078	Cheltenham	Gloucestershire	South West	ENG				87	147	234	29	49	78		228	
E07000079	Cotswold	Gloucestershire	South West	ENG				83	107	190	28	36	63		267	
E07000080	Forest of Dean	Gloucestershire	South West	ENG				78	136	214	26	45	71		155	
E07000081	Gloucester	Gloucestershire	South West	ENG				113	116	229	38	39	76		139	
E07000082	Stroud	Gloucestershire	South West	ENG				98	143	241	33	48	80		281	
E07000083	Tewkesbury	Gloucestershire	South West	ENG				81	119	200	27	40	67		262	
E07000084	Basingstoke and Deane	Hampshire	South East	ENG				106	133	239	35	44	80		275	
E07000085	East Hampshire	Hampshire	South East	ENG				76	165	241	25	55	80		308	
E07000086	Eastleigh	Hampshire	South East	ENG				78	116	194	26	39	65		298	
E07000087	Fareham	Hampshire	South East	ENG				101	136	237	34	45	79		312	
E07000088	Gosport	Hampshire	South East	ENG				73	91	164	24	30	55		131	
E07000089	Hart	Hampshire	South East	ENG				40	71	111	13	24	37		326	
E07000090	Havant	Hampshire	South East	ENG				124	140	264	41	47	88		142	
E07000091	New Forest	Hampshire	South East	ENG				202	315	517	67	105	172		257	
E07000092	Rushmoor	Hampshire	South East	ENG				50	78	128	17	26	43		205	
E07000093	Test Valley	Hampshire	South East	ENG				100	115	215	33	38	72		286	
E07000094	Winchester	Hampshire	South East	ENG				91	121	212	30	40	71		307	
E07000095	Broxbourne	Hertfordshire	East of England	ENG				41	75	116	14	25	39		171	
E07000096	Dacorum	Hertfordshire	East of England	ENG				98	131	229	33	44	76		260	
E07000098	Hertsmere	Hertfordshire	East of England	ENG				75	77	152	25	26	51		247	
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG				86	135	221	29	45	74		271	
E07000102	Three Rivers	Hertfordshire	East of England	ENG				59	113	172	20	38	57		300	
E07000103	Watford	Hertfordshire	East of England	ENG				55	90	145	18	30	48		194	
E07000105	Ashford	Kent	South East	ENG				97	115	212	32	38	71		173	
E07000106	Canterbury	Kent	South East	ENG				169	246	415	56	82	138		183	
E07000107	Dartford	Kent	South East	ENG				83	95	178	28	32	59		170	
E07000108	Dover	Kent	South East	ENG				114	144	258	38	48	86		116	
E07000109	Gravesham	Kent	South East	ENG				86	83	169	29	28	56		124	
E07000110	Maldstone	Kent	South East	ENG				111	154	265	37	51	88		206	
E07000111	Sevenoaks	Kent	South East	ENG				96	145	241	32	48	80		272	
E07000112	Shepway	Kent	South East	ENG				85	128	213	28	43	71		104	
E07000113	Swale	Kent	South East	ENG				63	130	193	21	43	64		88	
E07000114	Thanet	Kent	South East	ENG				101	199	300	34	66	100		35	
E07000115	Tonbridge and Malling	Kent	South East	ENG				80	93	173	27	31	58		277	
E07000116	Tunbridge Wells	Kent	South East	ENG				88	142	230	29	47	77		279	
E07000117	Burnley	Lancashire	North West	ENG				76	63	139	25	21	46		17	
E07000118	Chorley	Lancashire	North West	ENG				78	122	200	26	41	67		186	
E07000119	Fylde	Lancashire	North West	ENG				94	131	225	31	44	75		218	
E07000120	Hyndburn	Lancashire	North West	ENG				57	63	120	19	21	40		28	
E07000121	Lancaster	Lancashire	North West	ENG				137	177	314	46	59	105		125	
E07000122	Pendle	Lancashire	North West	ENG				69	94	163	23	31	54		42	
E07000123	Preston	Lancashire	North West	ENG				96	134	230	32	45	77		72	
E07000124	Ribble Valley	Lancashire	North West	ENG				45	71	116	15	24	39		290	

**Table 1.24 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
					Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2014/16			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E07000125	Rossendale	Lancashire	North West	ENG				43	66	109	14	22	36		98	
E07000126	South Ribble	Lancashire	North West	ENG				87	107	194	29	36	65		234	
E07000127	West Lancashire	Lancashire	North West	ENG				95	140	235	32	47	78		164	
E07000128	Wyre	Lancashire	North West	ENG				115	155	270	38	52	90		167	
E07000129	Blaby	Leicestershire	East Midlands	ENG				66	70	136	22	23	45		288	
E07000130	Charnwood	Leicestershire	East Midlands	ENG				114	156	270	38	52	90		237	
E07000131	Harborough	Leicestershire	East Midlands	ENG				72	76	148	24	25	49		311	
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG				70	104	174	23	35	58		248	
E07000133	Melton	Leicestershire	East Midlands	ENG				32	51	81	11	17	27		236	
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG				61	96	157	20	32	52		214	
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG				43	58	101	14	19	34		249	
E07000136	Boston	Lincolnshire	East Midlands	ENG				58	83	141	19	28	47		66	
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG				159	198	357	53	66	119		33	
E07000138	Lincoln	Lincolnshire	East Midlands	ENG				85	100	185	28	33	62		45	
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG				75	92	167	25	31	56		266	
E07000140	South Holland	Lincolnshire	East Midlands	ENG				67	101	168	22	34	56		134	
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG				105	178	283	35	59	94		223	
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG				95	112	207	32	37	69		152	
E07000143	Breckland	Norfolk	East of England	ENG				134	156	290	45	52	97		129	
E07000144	Broadland	Norfolk	East of England	ENG				136	190	326	45	63	109		273	
E07000145	Great Yarmouth	Norfolk	East of England	ENG				83	133	216	28	44	72		29	
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG				146	184	330	49	61	110		89	
E07000147	North Norfolk	Norfolk	East of England	ENG				132	193	325	44	64	108		93	
E07000148	Norwich	Norfolk	East of England	ENG				85	103	188	28	34	63		47	
E07000149	South Norfolk	Norfolk	East of England	ENG				146	167	313	49	56	104		229	
E07000150	Corby	Northamptonshire	East Midlands	ENG				44	54	98	15	18	33		75	
E07000151	Daventry	Northamptonshire	East Midlands	ENG				53	78	131	18	26	44		238	
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG				62	84	146	21	28	49		221	
E07000153	Kettering	Northamptonshire	East Midlands	ENG				78	99	177	26	33	59		168	
E07000154	Northampton	Northamptonshire	East Midlands	ENG				125	151	276	42	50	92		108	
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG				64	69	133	21	23	44		317	
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG				57	81	138	19	27	46		133	
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				56	80	136	19	27	45		250	
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				83	90	173	28	30	58		245	
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				147	235	382	49	78	127		289	
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				42	66	108	14	22	36		225	
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				67	86	153	22	29	51		184	
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				141	265	406	47	88	135		90	
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG				55	93	148	18	31	49		254	
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG				93	110	203	31	37	68		70	
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG				87	128	215	29	43	72		115	
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG				78	135	213	26	45	71		219	
E07000173	Gedling	Nottinghamshire	East Midlands	ENG				104	130	234	35	43	78		202	
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG				109	105	214	36	35	71		59	
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG				85	126	211	28	42	70		158	
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG				93	128	221	31	43	74		318	
E07000177	Cherwell	Oxfordshire	South East	ENG				71	127	198	24	42	66		256	
E07000178	Oxford	Oxfordshire	South East	ENG				73	126	199	24	42	66		169	
E07000179	South Oxfordshire	Oxfordshire	South East	ENG				95	147	242	32	49	81		309	
E07000180	Vale of White Horse	Oxfordshire	South East	ENG				82	122	204	27	41	68		310	

**Table 1.24 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2014/16			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
					Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E07000181	West Oxfordshire	Oxfordshire	South East	ENG				79	135	214	26	45	71		316	
E07000187	Mendip	Somerset	South West	ENG				112	163	275	37	54	92		160	
E07000188	Sedgemoor	Somerset	South West	ENG				93	146	239	31	49	80		146	
E07000189	South Somerset	Somerset	South West	ENG				155	223	378	52	74	126		180	
E07000190	Taunton Deane	Somerset	South West	ENG				113	157	270	38	52	90		193	
E07000191	West Somerset	Somerset	South West	ENG				36	82	118	12	27	39		56	
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG				79	95	174	26	32	58		128	
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG				76	128	204	25	43	68		163	
E07000194	Lichfield	Staffordshire	West Midlands	ENG				85	122	207	28	41	69		252	
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG				72	102	174	24	34	58		161	
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG				111	138	249	37	46	83		253	
E07000197	Stafford	Staffordshire	West Midlands	ENG				89	143	232	30	48	77		243	
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG				71	122	193	24	41	64		203	
E07000199	Tamworth	Staffordshire	West Midlands	ENG				59	65	124	20	22	41		144	
E07000200	Babergh	Suffolk	East of England	ENG				73	106	179	24	35	60		200	
E07000201	Forest Heath	Suffolk	East of England	ENG				45	50	95	15	17	32		140	
E07000202	Ipswich	Suffolk	East of England	ENG				89	103	192	30	34	64		74	
E07000203	Mid Suffolk	Suffolk	East of England	ENG				67	107	174	22	36	58		239	
E07000204	St Edmundsbury	Suffolk	East of England	ENG				96	136	232	32	45	77		196	
E07000205	Suffolk Coastal	Suffolk	East of England	ENG				114	153	267	38	51	89		240	
E07000206	Waveney	Suffolk	East of England	ENG				118	161	279	39	54	93		95	
E07000207	Elmbridge	Surrey	South East	ENG				98	127	225	33	42	75		322	
E07000208	Epsom and Ewell	Surrey	South East	ENG				56	76	132	19	25	44		313	
E07000209	Guildford	Surrey	South East	ENG				69	127	196	23	42	65		304	
E07000210	Mole Valley	Surrey	South East	ENG				89	90	179	30	30	60		305	
E07000211	Reigate and Banstead	Surrey	South East	ENG				109	159	268	36	53	89		292	
E07000212	Runnymede	Surrey	South East	ENG				68	73	141	23	24	47		280	
E07000213	Spelthorne	Surrey	South East	ENG				67	98	165	22	33	55		233	
E07000214	Surrey Heath	Surrey	South East	ENG				64	77	141	21	26	47		320	
E07000215	Tandridge	Surrey	South East	ENG				59	90	149	20	30	50		284	
E07000216	Waverley	Surrey	South East	ENG				72	143	215	24	48	72		323	
E07000217	Woking	Surrey	South East	ENG				50	91	141	17	30	47		301	
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG				46	80	126	15	27	42		179	
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG				73	134	207	24	45	69		110	
E07000220	Rugby	Warwickshire	West Midlands	ENG				83	89	172	28	30	57		244	
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG				105	160	265	35	53	88		263	
E07000222	Warwick	Warwickshire	West Midlands	ENG				100	140	240	33	47	80		269	
E07000223	Adur	West Sussex	South East	ENG				63	93	156	21	31	52		150	
E07000224	Arun	West Sussex	South East	ENG				167	263	430	56	88	143		174	
E07000225	Chichester	West Sussex	South East	ENG				129	186	315	43	62	105		231	
E07000226	Crawley	West Sussex	South East	ENG				46	77	123	15	26	41		151	
E07000227	Horsham	West Sussex	South East	ENG				93	170	263	31	57	88		295	
E07000228	Mid Sussex	West Sussex	South East	ENG				129	200	329	43	67	110		321	
E07000229	Worthing	West Sussex	South East	ENG				110	164	274	37	55	91		172	
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG				85	109	194	28	36	65		282	
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG				109	173	282	36	58	94		188	
E07000236	Redditch	Worcestershire	West Midlands	ENG				52	81	133	17	27	44		136	
E07000237	Worcester	Worcestershire	West Midlands	ENG				74	104	178	25	35	59		159	
E07000238	Wychavon	Worcestershire	West Midlands	ENG				111	129	240	37	43	80		191	
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG				102	152	254	34	51	85		123	
E07000240	St Albans	Hertfordshire	East of England	ENG				101	138	239	34	46	80		319	



**Table 1.24 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2014/16			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
					Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG				86	113	199	29	38	66		235	
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG				80	121	201	27	40	67		315	
E07000243	Stevenage	Hertfordshire	East of England	ENG				54	88	142	18	29	47		137	
E08000001	Bolton	Greater Manchester	North West	ENG				201	241	442	67	80	147		64	
E08000002	Bury	Greater Manchester	North West	ENG				126	183	309	42	61	103		132	
E08000003	Manchester	Greater Manchester	North West	ENG				261	350	611	87	117	204		1	
E08000004	Oldham	Greater Manchester	North West	ENG				168	194	362	56	65	121		51	
E08000005	Rochdale	Greater Manchester	North West	ENG				140	201	341	47	67	114		25	
E08000006	Salford	Greater Manchester	North West	ENG				150	185	335	50	62	112		27	
E08000007	Stockport	Greater Manchester	North West	ENG				224	319	543	75	106	181		178	
E08000008	Tameside	Greater Manchester	North West	ENG				204	203	407	68	68	136		34	
E08000009	Trafford	Greater Manchester	North West	ENG				194	238	432	65	79	144		222	
E08000010	Wigan	Greater Manchester	North West	ENG				254	348	602	85	116	201		107	
E08000011	Knowsley	Merseyside	North West	ENG				110	137	247	37	46	82		5	
E08000012	Liverpool	Merseyside	North West	ENG				334	376	710	111	125	237		7	
E08000013	St. Helens	Merseyside	North West	ENG				111	182	293	37	61	98		52	
E08000014	Sefton	Merseyside	North West	ENG				209	312	521	70	104	174		102	
E08000015	Wirral	Merseyside	North West	ENG				278	415	693	93	138	231		106	
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				190	246	436	63	82	145		37	
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				197	264	461	66	88	154		48	
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				170	260	430	57	87	143		62	
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG				373	540	913	124	180	304		94	
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG				199	241	440	66	80	147		92	
E08000022	North Tyneside	Tyne & Wear	North East	ENG				188	262	450	63	87	150		138	
E08000023	South Tyneside	Tyne & Wear	North East	ENG				123	181	304	41	60	101		31	
E08000024	Sunderland	Tyne & Wear	North East	ENG				229	304	533	76	101	178		38	
E08000025	Birmingham	West Midlands	West Midlands	ENG				651	818	1,469	217	273	490		11	
E08000026	Coventry	West Midlands	West Midlands	ENG				219	273	492	73	91	164		60	
E08000027	Dudley	West Midlands	West Midlands	ENG				246	338	584	82	113	195		118	
E08000028	Sandwell	West Midlands	West Midlands	ENG				181	251	432	60	84	144		12	
E08000029	Solihull	West Midlands	West Midlands	ENG				155	232	387	52	77	129		216	
E08000030	Walsall	West Midlands	West Midlands	ENG				230	265	495	77	88	165		41	
E08000031	Wolverhampton	West Midlands	West Midlands	ENG				190	289	479	63	96	160		19	
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				348	521	869	116	174	290		30	
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				139	199	338	46	66	113		96	
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				326	436	762	109	145	254		101	
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				498	644	1,142	166	215	381		100	
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG				266	343	609	89	114	203		73	
E08000037	Gateshead	Tyne & Wear	North East	ENG				195	221	416	65	74	139		80	
E09000001	City of London	Greater London	London	ENG				-	-	-	-	-	-		226	
E09000002	Barking and Dagenham	Greater London	London	ENG				97	98	195	32	33	65		3	
E09000003	Barnet	Greater London	London	ENG				177	219	396	59	73	132		157	
E09000004	Bexley	Greater London	London	ENG				152	220	372	51	73	124		195	
E09000005	Brent	Greater London	London	ENG				175	168	343	58	56	114		39	
E09000006	Bromley	Greater London	London	ENG				219	290	509	73	97	170		220	
E09000007	Camden	Greater London	London	ENG				88	83	171	29	28	57		69	
E09000008	Croydon	Greater London	London	ENG				224	255	479	75	85	160		91	
E09000009	Ealing	Greater London	London	ENG				169	197	366	56	66	122		87	
E09000010	Enfield	Greater London	London	ENG				164	206	370	55	69	123		53	
E09000011	Greenwich	Greater London	London	ENG				119	140	259	40	47	86		50	

**Table 1.24 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

back to Table of Contents

					ALL AGES											
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2014/16			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
					Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
E09000012	Hackney	Greater London	London	ENG				83	96	179	28	32	60		2	
E09000013	Hammersmith and Fulham	Greater London	London	ENG				77	74	151	26	25	50		76	
E09000014	Haringey	Greater London	London	ENG				101	89	190	34	30	63		21	
E09000015	Harrow	Greater London	London	ENG				127	143	270	42	48	90		213	
E09000016	Havering	Greater London	London	ENG				165	216	381	55	72	127		166	
E09000017	Hillingdon	Greater London	London	ENG				171	207	378	57	69	126		153	
E09000018	Hounslow	Greater London	London	ENG				133	148	281	44	49	94		86	
E09000019	Islington	Greater London	London	ENG				85	104	189	28	35	63		13	
E09000020	Kensington and Chelsea	Greater London	London	ENG				79	75	154	26	25	51		99	
E09000021	Kingston upon Thames	Greater London	London	ENG				82	88	170	27	29	57		278	
E09000022	Lambeth	Greater London	London	ENG				131	148	279	44	49	93		22	
E09000023	Lewisham	Greater London	London	ENG				129	140	269	43	47	90		26	
E09000024	Merton	Greater London	London	ENG				95	120	215	32	40	72		212	
E09000025	Newham	Greater London	London	ENG				129	136	265	43	45	88		8	
E09000026	Redbridge	Greater London	London	ENG				158	181	339	53	60	113		119	
E09000027	Richmond upon Thames	Greater London	London	ENG				95	105	200	32	35	67		296	
E09000028	Southwark	Greater London	London	ENG				110	109	219	37	36	73		23	
E09000029	Sutton	Greater London	London	ENG				96	167	263	32	56	88		217	
E09000030	Tower Hamlets	Greater London	London	ENG				83	108	191	28	36	64		6	
E09000031	Waltham Forest	Greater London	London	ENG				84	141	225	28	47	75		15	
E09000032	Wandsworth	Greater London	London	ENG				119	140	259	40	47	86		147	
E09000033	Westminster	Greater London	London	ENG				121	118	239	40	39	80		43	
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	74.8	70.4	71.7	94	144	238	31	48	79	10	9	
N09000002	Armagh City, Banbridge & Craigavon		Northern Ireland	NI	59.5	53.9	56.4	110	149	259	37	50	86	1	7	
N09000003	Belfast		Northern Ireland	NI	75.4	63.7	68.0	230	325	555	77	108	185	5	2	
N09000004	Causeway Coast & Glens		Northern Ireland	NI	72.1	56.3	62.7	106	122	228	35	41	76	2	6	
N09000005	Derry City & Strabane		Northern Ireland	NI	82.3	64.4	71.4	103	112	215	34	37	72	9	1	
N09000006	Fermanagh & Omagh		Northern Ireland	NI	84.3	58.3	70.2	96	97	193	32	32	64	7	4	
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	66.7	62.1	64.7	94	139	233	31	46	78	3	11	
N09000008	Mid & East Antrim		Northern Ireland	NI	77.0	66.1	71.9	117	154	271	39	51	90	11	8	
N09000009	Mid Ulster		Northern Ireland	NI	80.2	64.1	70.5	94	115	209	31	38	70	8	5	
N09000010	Newry, Mourne & Down		Northern Ireland	NI	74.1	61.5	66.9	115	145	260	38	48	87	4	3	
N09000011	Ards & North Down		Northern Ireland	NI	69.2	68.4	68.6	118	199	317	39	66	106	6	10	
S12000005	Clackmannanshire		Scotland	SCO	104.6	72.4	84.3	55	57	112	18	19	37	18	8	
S12000006	Dumfries & Galloway		Scotland	SCO	71.2	75.3	73.5	150	233	383	50	78	128	7	14	
S12000008	East Ayrshire		Scotland	SCO	105.2	87.9	93.9	135	173	308	45	58	103	27	6	
S12000010	East Lothian		Scotland	SCO	76.4	64.7	71.1	93	117	210	31	39	70	5	22	
S12000011	East Renfrewshire		Scotland	SCO	67.2	66.2	67.7	76	123	199	25	41	66	1	32	
S12000013	Eilean Siar		Scotland	SCO	93.5	90.5	92.9	36	58	94	12	19	31	26	11	
S12000014	Falkirk		Scotland	SCO	83.4	86.5	85.8	143	213	356	48	71	119	20	16	
S12000015	Fife		Scotland	SCO	77.8	75.3	76.9	327	478	805	109	159	268	9	17	
S12000017	Highland		Scotland	SCO	82.0	83.1	83.0	234	354	588	78	118	196	17	19	
S12000018	Inverclyde		Scotland	SCO	101.9	84.2	92.0	92	133	225	31	44	75	24	5	
S12000019	Midlothian		Scotland	SCO	80.2	92.1	88.2	74	122	196	25	41	65	21	15	
S12000020	Moray		Scotland	SCO	83.9	90.2	88.5	101	152	253	34	51	84	22	24	
S12000021	North Ayrshire		Scotland	SCO	83.7	78.9	81.1	133	195	328	44	65	109	13	3	
S12000023	Orkney Islands		Scotland	SCO	59.6	72.7	68.9	20	29	49	7	10	16	3	25	
S12000024	Perth & Kinross		Scotland	SCO	66.9	70.5	69.1	136	225	361	45	75	120	4	27	
S12000026	Scottish Borders		Scotland	SCO	77.0	68.8	72.4	117	159	276	39	53	92	6	20	
S12000027	Shetland Islands		Scotland	SCO	84.9	70.6	77.8	21	26	47	7	9	16	11	26	

**Table 1.24 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					ALL AGES											
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised stroke (CBVD) death rates per 100,000			Total number of stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2014/16			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
					Men	Women	Total	Men	Women	Total	Men	Women	Total	National	National	
S12000028	South Ayrshire		Scotland	SCO	100.3	89.3	94.3	163	218	381	54	73	127	28	12	
S12000029	South Lanarkshire		Scotland	SCO	91.1	90.5	92.4	310	474	784	103	158	261	25	9	
S12000030	Stirling		Scotland	SCO	63.7	82.4	76.3	63	128	191	21	43	64	8	23	
S12000033	Aberdeen City		Scotland	SCO	91.8	75.3	81.2	190	256	446	63	85	149	14	29	
S12000034	Aberdeenshire		Scotland	SCO	103.1	103.4	104.6	281	410	691	94	137	230	32	30	
S12000035	Argyll & Bute		Scotland	SCO	90.3	79.5	84.8	110	149	259	37	50	86	19	18	
S12000036	City of Edinburgh		Scotland	SCO	82.4	75.6	78.5	382	587	969	127	196	323	12	28	
S12000038	Renfrewshire		Scotland	SCO	99.7	83.9	91.8	195	239	434	65	80	145	23	10	
S12000039	West Dunbartonshire		Scotland	SCO	94.0	94.7	95.1	81	137	218	27	46	73	30	1	
S12000040	West Lothian		Scotland	SCO	82.2	79.9	81.2	126	175	301	42	58	100	15	13	
S12000041	Angus		Scotland	SCO	75.0	78.7	77.7	113	193	306	38	64	102	10	21	
S12000042	Dundee City		Scotland	SCO	103.9	70.6	82.2	155	176	331	52	59	110	16	7	
S12000044	North Lanarkshire		Scotland	SCO	94.8	92.7	94.6	304	432	736	101	144	245	29	4	
S12000045	East Dunbartonshire		Scotland	SCO	62.3	70.7	68.2	90	153	243	30	51	81	2	31	
S12000046	Glasgow City		Scotland	SCO	106.2	91.2	98.4	530	761	1,291	177	254	430	31	2	
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	68.5	87.8	79.0	65	139	204	22	46	68	21	10	
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	68.6	71.5	70.9	117	192	309	39	64	103	17	17	
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	53.0	62.4	59.1	107	200	307	36	67	102	4	16	
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	66.0	74.8	72.4	89	137	226	30	46	75	19	13	
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	62.1	60.5	62.2	118	155	273	39	52	91	8	19	
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	55.4	59.3	58.7	89	133	222	30	44	74	3	14	
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	55.3	50.3	53.3	59	83	142	20	28	47	1	18	
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	51.0	53.6	53.5	97	150	247	32	50	82	2	11	
W06000010	Cardiganshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	70.2	67.2	69.3	189	252	441	63	84	147	15	9	
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	68.7	60.5	64.5	203	268	471	68	89	157	11	15	
W06000012	Neath Port Talbot / Castell-nedd Por	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	59.9	61.6	62.3	107	161	268	36	54	89	9	4	
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	65.0	60.2	63.1	110	145	255	37	48	85	10	8	
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	66.7	55.5	59.4	102	136	238	34	45	79	5	21	
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	70.8	55.6	61.6	221	285	506	74	95	169	6	12	
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	67.1	75.5	73.7	185	290	475	62	97	158	20	3	
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	59.1	69.9	67.2	121	192	313	40	64	104	14	5	
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	63.3	66.9	66.6	53	79	132	18	26	44	13	1	
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	68.6	62.4	66.2	79	107	186	26	36	62	12	6	
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	60.9	61.7	61.8	84	129	213	28	43	71	7	22	
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	70.1	72.0	72.3	116	169	285	39	56	95	18	7	
W06000023	Powys	Powys	Wales / Cymru	WAL	65.6	71.0	69.9	143	228	371	48	76	124	16	20	
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	73.2	89.1	84.4	49	83	132	16	28	44	22	2	

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

**Source:** England: Mortality rates not available at time of publication. Number of deaths are taken from NOMIS Mortality Statistics  
Wales: Mortality rates from Health Maps Wales  
Scotland: Mortality rates calculated in partnership with National Records of Scotland.  
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.

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

**Table 1.25 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75												
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
E06000032	Luton	Bedfordshire	East of England	ENG	27.2	15.9	21.4	53	33	86	18	11	29	321	40		
E06000055	Bedford	Bedfordshire	East of England	ENG	12.5	8.9	10.7	26	19	45	9	6	15	107	154		
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	11.3	12.0	11.7	40	44	84	13	15	28	140	264		
E06000036	Bracknell Forest	Berkshire	South East	ENG	8.9	8.9	8.8	10	12	22	3	4	7	36	287		
E06000037	West Berkshire	Berkshire	South East	ENG	6.2	8.4	7.3	13	18	31	4	6	10	13	291		
E06000038	Reading	Berkshire	South East	ENG	18.1	10.0	14.0	27	16	43	9	5	14	217	143		
E06000039	Slough	Berkshire	South East	ENG	20.5	21.2	21.0	27	25	52	9	8	17	319	79		
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	15.4	9.9	12.5	28	19	47	9	6	16	168	306		
E06000041	Wokingham	Berkshire	South East	ENG	9.2	9.4	9.3	19	20	39	6	7	13	56	325		
E06000023	Bristol, City of	Bristol	South West	ENG	13.5	13.7	13.7	60	60	120	20	20	40	212	77		
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	18.8	12.3	15.4	51	36	87	17	12	29	256	181		
E07000004	Aylesbury Vale	Buckinghamshire	South East	ENG	12.4	8.1	10.1	27	20	47	9	7	16	76	283		
E07000005	Chiltern	Buckinghamshire	South East	ENG	-	7.9	6.7	7	11	18	2	4	6	9	324		
E07000006	South Bucks	Buckinghamshire	South East	ENG	-	10.1	9.2	7	10	17	2	3	6	55	302		
E07000007	Wycombe	Buckinghamshire	South East	ENG	10.2	7.4	8.8	22	17	39	7	6	13	33	293		
E06000031	Peterborough	Cambridgeshire	East of England	ENG	17.4	13.7	15.6	38	29	67	13	10	22	263	58		
E07000008	Cambridge	Cambridgeshire	East of England	ENG	17.2	-	10.7	18	6	24	6	2	8	109	227		
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	15.2	14.5	14.8	18	18	36	6	6	12	244	255		
E07000010	Fenland	Cambridgeshire	East of England	ENG	16.6	12.8	14.7	24	19	43	8	6	14	240	55		
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	13.1	7.8	10.4	32	19	51	11	6	17	91	265		
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	11.2	8.3	9.7	23	18	41	8	6	14	63	314		
E06000006	Halton	Cheshire	North West	ENG	22.8	13.9	18.2	38	25	63	13	8	21	305	36		
E06000007	Warrington	Cheshire	North West	ENG	16.6	11.8	14.2	46	33	79	15	11	26	226	176		
E06000049	Cheshire East	Cheshire	North West	ENG	15.2	8.0	11.5	84	47	131	28	16	44	132	241		
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	14.7	10.5	12.5	69	52	121	23	17	40	169	192		
E06000052	Cornwall and Isles of Scilly	Cornwall	South West	ENG	14.3	11.1	12.7	126	105	231	42	35	77	173	68		
E06000001	Hartlepool	County Durham	North East	ENG	27.8	13.2	20.3	32	16	48	11	5	16	315	32		
E06000004	Stockton-on-Tees	County Durham	North East	ENG	13.9	12.5	13.2	34	32	66	11	11	22	196	130		
E06000005	Darlington	County Durham	North East	ENG	13.8	12.4	13.1	20	18	38	7	6	13	190	122		
E06000047	County Durham	County Durham	North East	ENG	18.4	16.0	17.2	134	122	256	45	41	85	292	81		
E07000026	Allerdale	Cumbria	North West	ENG	16.0	12.7	14.3	25	20	45	8	7	15	230	114		
E07000027	Barrow-in-Furness	Cumbria	North West	ENG	15.2	13.4	14.3	15	14	29	5	5	10	229	44		
E07000028	Carlisle	Cumbria	North West	ENG	13.2	15.9	14.6	20	25	45	7	8	15	238	112		
E07000029	Copeland	Cumbria	North West	ENG	18.4	11.4	14.8	19	12	31	6	4	10	245	63		
E07000030	Eden	Cumbria	North West	ENG	13.1	-	11.2	12	8	20	4	3	7	121	182		
E07000031	South Lakeland	Cumbria	North West	ENG	12.0	7.6	9.7	23	15	38	8	5	13	65	251		
E06000015	Derby	Derbyshire	East Midlands	ENG	19.2	12.3	15.5	51	36	87	17	12	29	261	84		
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	12.8	13.1	13.0	24	26	50	8	9	17	185	162		
E07000033	Bolsover	Derbyshire	East Midlands	ENG	14.4	-	11.2	16	9	25	5	3	8	122	61		
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	22.3	9.5	15.8	33	15	48	11	5	16	270	85		
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	8.2	-	7.3	10	8	18	3	3	6	12	258		
E07000036	Erewash	Derbyshire	East Midlands	ENG	20.2	14.3	17.2	31	23	54	10	8	18	291	149		
E07000037	High Peak	Derbyshire	East Midlands	ENG	15.2	11.5	13.4	21	16	37	7	5	12	201	198		
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	11.2	9.5	10.4	18	17	35	6	6	12	89	190		
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	10.8	9.4	10.1	15	13	28	5	4	9	75	230		
E06000026	Plymouth	Devon	South West	ENG	13.3	14.0	13.6	43	47	90	14	16	30	210	82		
E06000027	Torbay	Devon	South West	ENG	14.5	18.0	16.2	31	41	72	10	14	24	280	46		
E07000040	East Devon	Devon	South West	ENG	13.1	8.7	10.8	33	23	56	11	8	19	110	246		
E07000041	Exeter	Devon	South West	ENG	13.8	7.1	10.2	17	10	27	6	3	9	79	165		
E07000042	Mid Devon	Devon	South West	ENG	12.7	9.0	10.8	16	11	27	5	4	9	113	156		
E07000043	North Devon	Devon	South West	ENG	18.9	16.4	17.6	28	27	55	9	9	18	295	127		

**Table 1.25 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75												
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
E07000044	South Hams	Devon	South West	ENG	11.1	6.8	8.8	16	11	27	5	4	9	37	209		
E07000045	Teignbridge	Devon	South West	ENG	9.9	9.6	9.7	22	22	44	7	7	15	67	177		
E07000046	Torridge	Devon	South West	ENG	17.4	13.9	15.6	21	16	37	7	5	12	266	67		
E07000047	West Devon	Devon	South West	ENG	-	-	6.6	7	6	13	2	2	4	7	141		
E06000028	Bournemouth	Dorset	South West	ENG	16.1	10.1	13.1	36	23	59	12	8	20	191	117		
E06000029	Poole	Dorset	South West	ENG	9.0	8.7	8.8	18	19	37	6	6	12	35	208		
E07000048	Christchurch	Dorset	South West	ENG	15.1	10.8	12.9	12	10	22	4	3	7	181	259		
E07000049	East Dorset	Dorset	South West	ENG	12.2	-	8.6	18	9	27	6	3	9	25	303		
E07000050	North Dorset	Dorset	South West	ENG	15.0	8.4	11.6	17	10	27	6	3	9	138	210		
E07000051	Purbeck	Dorset	South West	ENG	11.8	-	8.9	10	5	15	3	2	5	38	211		
E07000052	West Dorset	Dorset	South West	ENG	7.8	13.0	10.5	13	25	38	4	8	13	98	207		
E07000053	Weymouth and Portland	Dorset	South West	ENG	18.1	13.2	15.6	18	14	32	6	5	11	265	103		
E06000043	Brighton and Hove	East Sussex	South East	ENG	13.4	12.8	13.2	38	36	74	13	12	25	193	109		
E07000061	Eastbourne	East Sussex	South East	ENG	15.5	11.1	13.2	22	17	39	7	6	13	197	120		
E07000062	Hastings	East Sussex	South East	ENG	19.5	14.8	17.0	24	19	43	8	6	14	288	20		
E07000063	Lewes	East Sussex	South East	ENG	11.1	11.3	11.1	17	19	36	6	6	12	119	201		
E07000064	Rother	East Sussex	South East	ENG	9.1	8.8	8.9	15	13	28	5	4	9	40	148		
E07000065	Wealden	East Sussex	South East	ENG	10.7	10.0	10.4	27	27	54	9	9	18	87	276		
E06000033	Southend-on-Sea	Essex	East of England	ENG	16.5	8.7	12.5	37	21	58	12	7	19	166	105		
E06000034	Thurrock	Essex	East of England	ENG	13.2	8.1	10.6	25	15	40	8	5	13	100	111		
E07000066	Basildon	Essex	East of England	ENG	15.5	11.5	13.4	33	27	60	11	9	20	203	113		
E07000067	Braintree	Essex	East of England	ENG	15.0	12.0	13.5	31	26	57	10	9	19	206	197		
E07000068	Brentwood	Essex	East of England	ENG	-	-	7.9	7	9	16	2	3	5	16	294		
E07000069	Castle Point	Essex	East of England	ENG	19.0	8.0	13.2	28	12	40	9	4	13	194	187		
E07000070	Chelmsford	Essex	East of England	ENG	14.0	7.2	10.5	31	17	48	10	6	16	93	261		
E07000071	Colchester	Essex	East of England	ENG	10.4	10.5	10.5	23	25	48	8	8	16	95	185		
E07000072	Epping Forest	Essex	East of England	ENG	12.4	8.8	10.5	21	16	37	7	5	12	99	199		
E07000073	Harlow	Essex	East of England	ENG	20.5	14.9	17.7	19	15	34	6	5	11	298	71		
E07000074	Maldon	Essex	East of England	ENG	17.0	-	11.7	17	7	24	6	2	8	143	204		
E07000075	Rochford	Essex	East of England	ENG	10.3	-	6.2	13	3	16	4	1	5	4	285		
E07000076	Tendring	Essex	East of England	ENG	16.3	15.1	15.7	38	38	76	13	13	25	268	49		
E07000077	Uttlesford	Essex	East of England	ENG	9.8	-	8.6	12	9	21	4	3	7	28	297		
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	10.3	7.0	8.6	36	26	62	12	9	21	26	274		
E07000078	Cheltenham	Gloucestershire	South West	ENG	13.3	8.9	11.0	19	13	32	6	4	11	117	228		
E07000079	Cotswold	Gloucestershire	South West	ENG	17.4	9.4	13.2	23	13	36	8	4	12	195	267		
E07000080	Forest of Dean	Gloucestershire	South West	ENG	12.8	10.4	11.5	16	15	31	5	5	10	131	155		
E07000081	Gloucester	Gloucestershire	South West	ENG	22.6	9.1	15.5	33	15	48	11	5	16	259	139		
E07000082	Stroud	Gloucestershire	South West	ENG	7.4	13.0	10.3	13	24	37	4	8	12	85	281		
E07000083	Tewkesbury	Gloucestershire	South West	ENG	14.2	12.8	13.5	18	18	36	6	6	12	208	262		
E09000001	City of London	Greater London	London	ENG	-	-	-	2	-	2	1	-	1	1	226		
E09000002	Barking and Dagenham	Greater London	London	ENG	29.7	11.3	20.0	51	20	71	17	7	24	314	3		
E09000003	Barnet	Greater London	London	ENG	11.5	7.0	9.1	43	30	73	14	10	24	49	157		
E09000004	Bexley	Greater London	London	ENG	14.7	8.9	11.6	38	26	64	13	9	21	136	195		
E09000005	Brent	Greater London	London	ENG	22.5	16.1	19.2	65	48	113	22	16	38	311	39		
E09000006	Bromley	Greater London	London	ENG	13.7	7.6	10.5	52	32	84	17	11	28	97	220		
E09000007	Camden	Greater London	London	ENG	11.1	8.1	9.7	25	18	43	8	6	14	62	69		
E09000008	Croydon	Greater London	London	ENG	17.6	13.8	15.6	66	59	125	22	20	42	264	91		
E09000009	Ealing	Greater London	London	ENG	13.9	12.7	13.2	45	44	89	15	15	30	198	87		
E09000010	Enfield	Greater London	London	ENG	15.6	9.3	12.2	46	33	79	15	11	26	156	53		
E09000011	Greenwich	Greater London	London	ENG	16.8	11.6	14.1	39	28	67	13	9	22	222	50		
E09000012	Hackney	Greater London	London	ENG	18.7	14.3	16.4	34	28	62	11	9	21	283	2		

**Table 1.25 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75												
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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
E09000013	Hammersmith and Fulham	Greater London	London	ENG	13.9	6.5	10.0	22	11	33	7	4	11	73	76		
E09000014	Haringey	Greater London	London	ENG	20.0	11.0	15.1	39	27	66	13	9	22	249	21		
E09000015	Harrow	Greater London	London	ENG	13.2	6.4	9.7	34	18	52	11	6	17	61	213		
E09000016	Havering	Greater London	London	ENG	12.9	8.2	10.4	38	27	65	13	9	22	92	166		
E09000017	Hillingdon	Greater London	London	ENG	20.9	11.2	15.9	60	35	95	20	12	32	274	153		
E09000018	Hounslow	Greater London	London	ENG	21.0	13.3	17.1	55	36	91	18	12	30	289	86		
E09000019	Islington	Greater London	London	ENG	15.0	12.0	13.4	26	22	48	9	7	16	205	13		
E09000020	Kensington and Chelsea	Greater London	London	ENG	11.4	6.7	8.8	18	13	31	6	4	10	34	99		
E09000021	Kingston upon Thames	Greater London	London	ENG	14.4	8.8	11.5	25	15	40	8	5	13	130	278		
E09000022	Lambeth	Greater London	London	ENG	27.5	17.5	22.1	58	42	100	19	14	33	325	22		
E09000023	Lewisham	Greater London	London	ENG	20.9	11.8	16.1	47	29	76	16	10	25	278	26		
E09000024	Merton	Greater London	London	ENG	11.7	9.1	10.4	23	19	42	8	6	14	88	212		
E09000025	Newham	Greater London	London	ENG	23.1	19.0	21.0	56	46	102	19	15	34	318	8		
E09000026	Redbridge	Greater London	London	ENG	18.1	11.4	14.6	47	33	80	16	11	27	236	119		
E09000027	Richmond upon Thames	Greater London	London	ENG	9.4	8.9	9.1	20	21	41	7	7	14	48	296		
E09000028	Southwark	Greater London	London	ENG	15.1	11.8	13.5	39	28	67	13	9	22	207	23		
E09000029	Sutton	Greater London	London	ENG	9.3	9.2	9.1	19	22	41	6	7	14	51	217		
E09000030	Tower Hamlets	Greater London	London	ENG	15.4	20.8	18.1	27	36	63	9	12	21	302	6		
E09000031	Waltham Forest	Greater London	London	ENG	15.5	12.6	13.9	35	31	66	12	10	22	215	15		
E09000032	Wandsworth	Greater London	London	ENG	13.2	12.0	12.5	30	31	61	10	10	20	170	147		
E09000033	Westminster	Greater London	London	ENG	18.5	11.4	14.8	40	26	66	13	9	22	243	43		
E08000001	Bolton	Greater Manchester	North West	ENG	16.4	14.7	15.5	56	53	109	19	18	36	257	64		
E08000002	Bury	Greater Manchester	North West	ENG	11.9	13.9	12.9	28	35	63	9	12	21	183	132		
E08000003	Manchester	Greater Manchester	North West	ENG	24.6	18.7	21.4	98	81	179	33	27	60	320	1		
E08000004	Oldham	Greater Manchester	North West	ENG	20.9	14.7	17.6	54	42	96	18	14	32	296	51		
E08000005	Rochdale	Greater Manchester	North West	ENG	19.7	17.0	18.3	49	46	95	16	15	32	306	25		
E08000006	Salford	Greater Manchester	North West	ENG	19.3	11.4	15.3	50	31	81	17	10	27	254	27		
E08000007	Stockport	Greater Manchester	North West	ENG	13.9	10.4	12.1	53	41	94	18	14	31	155	178		
E08000008	Tameside	Greater Manchester	North West	ENG	24.6	19.6	22.0	70	58	128	23	19	43	324	34		
E08000009	Trafford	Greater Manchester	North West	ENG	14.1	12.6	13.3	39	37	76	13	12	25	200	222		
E08000010	Wigan	Greater Manchester	North West	ENG	14.8	19.9	17.4	67	91	158	22	30	53	294	107		
E06000044	Portsmouth	Hampshire	South East	ENG	17.6	10.8	14.2	39	24	63	13	8	21	224	57		
E06000045	Southampton	Hampshire	South East	ENG	10.9	10.5	10.7	27	27	54	9	9	18	105	54		
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	17.7	8.1	12.8	39	18	57	13	6	19	179	275		
E07000085	East Hampshire	Hampshire	South East	ENG	7.8	8.9	8.3	14	17	31	5	6	10	20	308		
E07000086	Eastleigh	Hampshire	South East	ENG	9.0	8.8	8.9	15	16	31	5	5	10	42	298		
E07000087	Fareham	Hampshire	South East	ENG	15.7	9.4	12.4	26	17	43	9	6	14	164	312		
E07000088	Gosport	Hampshire	South East	ENG	15.0	14.5	14.8	17	17	34	6	6	11	242	131		
E07000089	Hart	Hampshire	South East	ENG	-	8.2	6.2	5	11	16	2	4	5	5	326		
E07000090	Havant	Hampshire	South East	ENG	15.2	10.7	12.8	27	20	47	9	7	16	178	142		
E07000091	New Forest	Hampshire	South East	ENG	7.7	8.0	7.8	23	26	49	8	9	16	15	257		
E07000092	Rushmoor	Hampshire	South East	ENG	16.5	15.8	16.2	17	17	34	6	6	11	279	205		
E07000093	Test Valley	Hampshire	South East	ENG	12.6	8.7	10.5	22	16	38	7	5	13	96	286		
E07000094	Winchester	Hampshire	South East	ENG	11.1	6.9	8.9	18	12	30	6	4	10	43	307		
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	13.0	11.6	12.3	37	36	73	12	12	24	157	126		
E07000095	Broxbourne	Hertfordshire	East of England	ENG	16.6	-	11.1	19	8	27	6	3	9	120	171		
E07000096	Dacorum	Hertfordshire	East of England	ENG	11.1	7.4	9.1	19	14	33	6	5	11	47	260		
E07000098	Hertsmere	Hertfordshire	East of England	ENG	17.1	8.2	12.5	21	11	32	7	4	11	165	247		
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	10.8	7.7	9.2	18	13	31	6	4	10	54	271		
E07000102	Three Rivers	Hertfordshire	East of England	ENG	11.7	11.7	11.7	13	14	27	4	5	9	142	300		
E07000103	Watford	Hertfordshire	East of England	ENG	20.2	11.7	15.9	20	12	32	7	4	11	273	194		

**Table 1.25 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75										
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National
E07000240	St Albans	Hertfordshire	East of England	ENG	16.1	9.3	12.5	26	17	43	9	6	14	167	319
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	13.6	8.0	10.6	16	10	26	5	3	9	101	235
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	8.8	10.5	9.7	16	20	36	5	7	12	64	315
E07000243	Stevenage	Hertfordshire	East of England	ENG	13.5	17.4	15.6	13	17	30	4	6	10	267	137
E06000046	Isle of Wight	Isle of Wight	South East	ENG	11.7	7.4	9.5	28	19	47	9	6	16	57	83
E06000035	Medway	Kent	South East	ENG	12.3	11.7	12.0	41	40	81	14	13	27	148	121
E07000105	Ashford	Kent	South East	ENG	12.8	10.2	11.5	21	18	39	7	6	13	129	173
E07000106	Canterbury	Kent	South East	ENG	13.7	9.5	11.5	27	21	48	9	7	16	133	183
E07000107	Dartford	Kent	South East	ENG	21.9	10.1	15.8	25	12	37	8	4	12	272	170
E07000108	Dover	Kent	South East	ENG	9.4	8.1	8.7	16	15	31	5	5	10	32	116
E07000109	Gravesham	Kent	South East	ENG	14.2	10.8	12.6	18	14	32	6	5	11	171	124
E07000110	Maidstone	Kent	South East	ENG	13.9	6.3	10.0	30	14	44	10	5	15	74	206
E07000111	Sevenoaks	Kent	South East	ENG	11.1	12.9	12.0	18	23	41	6	8	14	150	272
E07000112	Shepway	Kent	South East	ENG	13.3	10.0	11.6	22	18	40	7	6	13	137	104
E07000113	Swale	Kent	South East	ENG	10.6	12.5	11.5	21	25	46	7	8	15	134	88
E07000114	Thanet	Kent	South East	ENG	13.3	12.8	13.0	27	28	55	9	9	18	188	35
E07000115	Tonbridge and Malling	Kent	South East	ENG	13.6	7.9	10.7	22	14	36	7	5	12	103	277
E07000116	Tunbridge Wells	Kent	South East	ENG	12.6	9.2	10.8	19	15	34	6	5	11	112	279
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	22.4	11.5	16.9	36	19	55	12	6	18	287	24
E06000009	Blackpool	Lancashire	North West	ENG	19.9	14.3	17.1	39	28	67	13	9	22	290	4
E07000117	Burnley	Lancashire	North West	ENG	29.1	9.5	19.0	33	11	44	11	4	15	309	17
E07000118	Chorley	Lancashire	North West	ENG	14.8	15.4	15.1	24	25	49	8	8	16	251	186
E07000119	Fylde	Lancashire	North West	ENG	17.6	9.5	13.5	22	13	35	7	4	12	209	218
E07000120	Hyndburn	Lancashire	North West	ENG	13.5	10.0	11.8	14	11	25	5	4	8	144	28
E07000121	Lancaster	Lancashire	North West	ENG	17.6	17.8	17.7	32	34	66	11	11	22	297	125
E07000122	Pendle	Lancashire	North West	ENG	21.4	-	14.4	25	9	34	8	3	11	231	42
E07000123	Preston	Lancashire	North West	ENG	19.5	12.9	16.3	29	19	48	10	6	16	281	72
E07000124	Ribble Valley	Lancashire	North West	ENG	11.1	14.8	13.0	10	13	23	3	4	8	184	290
E07000125	Rossendale	Lancashire	North West	ENG	15.4	15.0	15.1	14	15	29	5	5	10	250	98
E07000126	South Ribble	Lancashire	North West	ENG	17.9	11.2	14.4	27	18	45	9	6	15	232	234
E07000127	West Lancashire	Lancashire	North West	ENG	15.3	12.8	14.0	24	22	46	8	7	15	216	164
E07000128	Wyre	Lancashire	North West	ENG	16.7	9.8	13.1	30	19	49	10	6	16	192	167
E06000016	Leicester	Leicestershire	East Midlands	ENG	23.3	15.5	19.3	74	48	122	25	16	41	312	14
E07000129	Blaby	Leicestershire	East Midlands	ENG	17.3	8.4	12.7	23	12	35	8	4	12	176	288
E07000130	Charnwood	Leicestershire	East Midlands	ENG	14.4	7.4	10.8	32	17	49	11	6	16	114	237
E07000131	Harborough	Leicestershire	East Midlands	ENG	11.6	8.2	9.9	15	11	26	5	4	9	70	311
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	9.0	7.3	8.2	14	12	26	5	4	9	18	248
E07000133	Melton	Leicestershire	East Midlands	ENG	-	-	10.2	7	9	16	2	3	5	78	236
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	12.2	11.1	11.6	18	16	34	6	5	11	139	214
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	-	16.2	11.1	4	13	17	1	4	6	118	249
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	20.7	9.4	14.9	44	21	65	15	7	22	246	65
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	17.0	15.3	16.1	40	39	79	13	13	26	277	135
E07000136	Boston	Lincolnshire	East Midlands	ENG	19.6	11.3	15.4	18	11	29	6	4	10	255	66
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	16.1	16.6	16.4	41	44	85	14	15	28	282	33
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	26.6	17.0	21.5	26	18	44	9	6	15	322	45
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	8.6	8.2	8.4	14	15	29	5	5	10	21	266
E07000140	South Holland	Lincolnshire	East Midlands	ENG	13.8	10.5	12.1	19	15	34	6	5	11	154	134
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	8.3	7.8	8.0	17	17	34	6	6	11	17	223
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	11.9	10.0	11.0	19	16	35	6	5	12	115	152
E08000011	Knowsley	Merseyside	North West	ENG	22.0	16.0	18.8	37	32	69	12	11	23	308	5
E08000012	Liverpool	Merseyside	North West	ENG	24.0	15.2	19.4	122	82	204	41	27	68	313	7

**Table 1.25 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75												
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1 = most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
E08000013	St. Helens	Merseyside	North West	ENG	10.6	13.2	11.9	26	34	60	9	11	20	147	52		
E08000014	Sefton	Merseyside	North West	ENG	12.4	12.5	12.4	47	53	100	16	18	33	161	102		
E08000015	Wirral	Merseyside	North West	ENG	17.8	14.6	16.1	78	69	147	26	23	49	276	106		
E07000143	Breckland	Norfolk	East of England	ENG	13.6	12.1	12.8	28	26	54	9	9	18	177	129		
E07000144	Broadland	Norfolk	East of England	ENG	14.2	7.5	10.8	29	16	45	10	5	15	111	273		
E07000145	Great Yarmouth	Norfolk	East of England	ENG	12.6	11.5	12.1	19	18	37	6	6	12	152	29		
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	17.3	9.0	13.0	42	23	65	14	8	22	187	89		
E07000147	North Norfolk	Norfolk	East of England	ENG	12.9	10.6	11.7	25	22	47	8	7	16	141	93		
E07000148	Norwich	Norfolk	East of England	ENG	13.1	12.7	12.8	18	19	37	6	6	12	180	47		
E07000149	South Norfolk	Norfolk	East of England	ENG	13.0	6.7	9.8	27	15	42	9	5	14	69	229		
E07000150	Corby	Northamptonshire	East Midlands	ENG	17.4	25.6	22.0	14	20	34	5	7	11	323	75		
E07000151	Daventry	Northamptonshire	East Midlands	ENG	10.0	-	8.5	12	9	21	4	3	7	23	238		
E07000152	East Northamptonshire	Northamptonshire	East Midlands	ENG	14.1	10.6	12.3	19	14	33	6	5	11	158	221		
E07000153	Kettering	Northamptonshire	East Midlands	ENG	14.1	14.2	14.2	18	19	37	6	6	12	225	168		
E07000154	Northampton	Northamptonshire	East Midlands	ENG	15.4	10.6	12.9	38	27	65	13	9	22	182	108		
E07000155	South Northamptonshire	Northamptonshire	East Midlands	ENG	12.0	-	9.0	16	8	24	5	3	8	45	317		
E07000156	Wellingborough	Northamptonshire	East Midlands	ENG	14.5	15.6	15.0	15	17	32	5	6	11	247	133		
E06000057	Northumberland	Northumberland	North East	ENG	14.5	13.6	14.0	73	72	145	24	24	48	219	145		
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	18.7	16.7	17.7	54	49	103	18	16	34	299	10		
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	18.6	11.0	14.7	31	19	50	10	6	17	241	70		
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	11.1	14.9	13.1	19	26	45	6	9	15	189	115		
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	9.0	10.6	9.9	14	18	32	5	6	11	71	219		
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	17.7	13.5	15.5	28	23	51	9	8	17	260	202		
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	18.5	9.3	13.8	26	14	40	9	5	13	214	59		
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	12.0	11.1	11.6	21	20	41	7	7	14	135	158		
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	12.1	7.7	9.9	19	13	32	6	4	11	72	318		
E07000177	Cherwell	Oxfordshire	South East	ENG	9.3	8.5	8.9	17	16	33	6	5	11	41	256		
E07000178	Oxford	Oxfordshire	South East	ENG	18.4	15.3	16.8	24	21	45	8	7	15	286	169		
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	8.9	8.3	8.6	17	17	34	6	6	11	27	309		
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	9.2	8.3	8.7	16	15	31	5	5	10	31	310		
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	11.7	6.7	9.1	17	11	28	6	4	9	50	316		
E06000017	Rutland	Rutland	East Midlands	ENG	-	-	-	1	6	7	0	2	2	1	299		
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	21.8	14.3	18.0	46	32	78	15	11	26	300	97		
E06000051	Shropshire	Shropshire	West Midlands	ENG	11.8	10.7	11.2	58	53	111	19	18	37	123	175		
E06000022	Bath and North East Somerset	Somerset	South West	ENG	11.1	9.6	10.3	25	23	48	8	8	16	81	268		
E06000024	North Somerset	Somerset	South West	ENG	14.7	8.3	11.4	46	28	74	15	9	25	127	224		
E07000187	Mendip	Somerset	South West	ENG	13.9	13.4	13.6	23	24	47	8	8	16	211	160		
E07000188	Sedgemoor	Somerset	South West	ENG	11.1	6.1	8.6	21	11	32	7	4	11	24	146		
E07000189	South Somerset	Somerset	South West	ENG	13.1	11.6	12.4	35	31	66	12	10	22	160	180		
E07000190	Taunton Deane	Somerset	South West	ENG	10.6	7.6	9.0	17	13	30	6	4	10	44	193		
E07000191	West Somerset	Somerset	South West	ENG	-	-	6.6	4	6	10	1	2	3	8	56		
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	18.0	9.5	13.7	56	30	86	19	10	29	213	18		
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	16.6	11.6	14.0	22	16	38	7	5	13	218	128		
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	14.1	14.7	14.4	22	23	45	7	8	15	233	163		
E07000194	Lichfield	Staffordshire	West Midlands	ENG	11.4	12.8	12.1	19	22	41	6	7	14	151	252		
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	8.8	9.5	9.2	15	17	32	5	6	11	52	161		
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	13.7	7.8	10.7	24	15	39	8	5	13	106	253		
E07000197	Stafford	Staffordshire	West Midlands	ENG	10.8	6.3	8.5	21	13	34	7	4	11	22	243		
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	10.8	10.5	10.6	17	17	34	6	6	11	102	203		
E07000199	Tamworth	Staffordshire	West Midlands	ENG	13.1	-	10.7	13	9	22	4	3	7	104	144		
E07000200	Babergh	Suffolk	East of England	ENG	11.3	9.6	10.4	17	14	31	6	5	10	86	200		



**Table 1.25 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75											
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)	
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National	
E07000201	Forest Heath	Suffolk	East of England	ENG	14.2	-	12.0	11	8	19	4	3	6	149	140	
E07000202	Ipswich	Suffolk	East of England	ENG	20.1	8.3	14.1	32	13	45	11	4	15	223	74	
E07000203	Mid Suffolk	Suffolk	East of England	ENG	8.2	6.1	7.1	14	10	24	5	3	8	11	239	
E07000204	St Edmundsbury	Suffolk	East of England	ENG	10.3	10.2	10.2	16	18	34	5	6	11	77	196	
E07000205	Suffolk Coastal	Suffolk	East of England	ENG	10.1	7.7	8.9	21	17	38	7	6	13	39	240	
E07000206	Waveney	Suffolk	East of England	ENG	15.4	12.6	14.0	28	24	52	9	8	17	220	95	
E07000207	Elmbridge	Surrey	South East	ENG	13.7	10.6	12.1	22	19	41	7	6	14	153	322	
E07000208	Epsom and Ewell	Surrey	South East	ENG	10.8	-	7.8	10	5	15	3	2	5	14	313	
E07000209	Guildford	Surrey	South East	ENG	6.9	11.3	9.2	11	19	30	4	6	10	53	304	
E07000210	Mole Valley	Surrey	South East	ENG	14.0	-	9.5	18	7	25	6	2	8	59	305	
E07000211	Reigate and Banstead	Surrey	South East	ENG	19.1	9.7	14.3	34	18	52	11	6	17	228	292	
E07000212	Runnymede	Surrey	South East	ENG	-	-	6.6	8	5	13	3	2	4	6	280	
E07000213	Spelthorne	Surrey	South East	ENG	16.4	12.7	14.5	20	17	37	7	6	12	234	233	
E07000214	Surrey Heath	Surrey	South East	ENG	12.1	8.5	10.3	14	10	24	5	3	8	84	320	
E07000215	Tandridge	Surrey	South East	ENG	13.9	-	10.4	16	9	25	5	3	8	90	284	
E07000216	Waverley	Surrey	South East	ENG	8.2	5.8	7.0	14	11	25	5	4	8	10	323	
E07000217	Woking	Surrey	South East	ENG	10.1	8.1	9.1	12	10	22	4	3	7	46	301	
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	19.5	12.2	15.8	57	37	94	19	12	31	271	92	
E08000022	North Tyneside	Tyne & Wear	North East	ENG	17.7	12.9	15.1	46	38	84	15	13	28	252	138	
E08000023	South Tyneside	Tyne & Wear	North East	ENG	16.8	8.2	12.4	34	18	52	11	6	17	162	31	
E08000024	Sunderland	Tyne & Wear	North East	ENG	20.7	15.7	18.1	74	62	136	25	21	45	303	38	
E08000037	Gateshead	Tyne & Wear	North East	ENG	21.9	12.8	17.2	56	35	91	19	12	30	293	80	
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	13.7	-	10.3	13	7	20	4	2	7	82	179	
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	9.3	14.2	11.8	16	25	41	5	8	14	146	110	
E07000220	Rugby	Warwickshire	West Midlands	ENG	9.9	9.2	9.6	14	13	27	5	4	9	60	244	
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	12.9	9.6	11.2	26	19	45	9	6	15	124	263	
E07000222	Warwick	Warwickshire	West Midlands	ENG	14.5	8.4	11.3	25	15	40	8	5	13	126	269	
E08000025	Birmingham	West Midlands	West Midlands	ENG	19.3	11.6	15.3	200	128	328	67	43	109	253	11	
E08000026	Coventry	West Midlands	West Midlands	ENG	20.4	11.0	15.6	70	40	110	23	13	37	262	60	
E08000027	Dudley	West Midlands	West Midlands	ENG	13.9	12.2	13.0	59	54	113	20	18	38	186	118	
E08000028	Sandwell	West Midlands	West Midlands	ENG	16.7	14.4	15.5	57	51	108	19	17	36	258	12	
E08000029	Solihull	West Midlands	West Midlands	ENG	11.0	9.6	10.3	31	30	61	10	10	20	83	216	
E08000030	Walsall	West Midlands	West Midlands	ENG	20.6	16.6	18.6	68	58	126	23	19	42	307	41	
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	21.2	17.0	19.1	61	51	112	20	17	37	310	19	
E07000223	Adur	West Sussex	South East	ENG	12.1	-	9.5	11	7	18	4	2	6	58	150	
E07000224	Arun	West Sussex	South East	ENG	12.5	12.2	12.3	30	33	63	10	11	21	159	174	
E07000225	Chichester	West Sussex	South East	ENG	12.8	13.9	13.4	23	29	52	8	10	17	204	231	
E07000226	Crawley	West Sussex	South East	ENG	9.2	13.5	11.4	11	16	27	4	5	9	128	151	
E07000227	Horsham	West Sussex	South East	ENG	7.4	9.8	8.7	15	21	36	5	7	12	29	295	
E07000228	Mid Sussex	West Sussex	South East	ENG	15.9	5.6	10.5	31	12	43	10	4	14	94	321	
E07000229	Worthing	West Sussex	South East	ENG	10.1	11.0	10.7	15	18	33	5	6	11	108	172	
E06000030	Swindon	Wiltshire	South West	ENG	13.0	9.5	11.2	34	25	59	11	8	20	125	189	
E06000054	Wiltshire	Wiltshire	South West	ENG	12.8	7.9	10.3	87	57	144	29	19	48	80	232	
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	9.3	7.4	8.3	13	11	24	4	4	8	19	282	
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	9.3	14.2	11.8	12	20	32	4	7	11	145	188	
E07000236	Redditch	Worcestershire	West Midlands	ENG	15.6	13.0	14.2	18	15	33	6	5	11	227	136	
E07000237	Worcester	Worcestershire	West Midlands	ENG	17.9	11.5	14.5	20	14	34	7	5	11	235	159	
E07000238	Wychevon	Worcestershire	West Midlands	ENG	10.5	9.0	9.7	20	18	38	7	6	13	66	191	
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	17.4	14.7	16.0	28	24	52	9	8	17	275	123	
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	23.2	17.7	20.5	66	51	117	22	17	39	317	9	
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	15.8	10.9	13.2	87	63	150	29	21	50	199	215	

**Table 1.25 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

					UNDER 75												
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2015/17			ASDR Rank (1 = lowest death rate)	IMD - Rank of average rank (1= most deprived)		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	National		
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	26.8	14.5	20.4	42	25	67	14	8	22	316	16		
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	18.2	18.1	18.2	35	37	72	12	12	24	304	78		
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	11.8	10.3	11.0	28	27	55	9	9	18	116	270		
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	-	9.8	8.7	7	10	17	2	3	6	30	250		
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	-	-	5.2	9	7	16	3	2	5	3	245		
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	14.4	10.6	12.4	33	26	59	11	9	20	163	289		
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	16.5	-	14.0	12	9	21	4	3	7	221	225		
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	-	16.3	9.8	3	14	17	1	5	6	68	184		
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	15.8	14.3	15.0	28	26	54	9	9	18	248	90		
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	15.4	10.0	12.6	19	13	32	6	4	11	172	254		
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	17.0	16.2	16.6	56	54	110	19	18	37	284	37		
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	15.2	11.7	13.4	61	49	110	20	16	37	202	48		
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	12.2	13.2	12.7	43	48	91	14	16	30	174	62		
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	15.6	13.8	14.7	98	92	190	33	31	63	239	94		
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	20.6	15.7	18.1	115	90	205	38	30	68	301	30		
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	17.6	14.0	15.8	48	40	88	16	13	29	269	96		
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	16.5	12.7	14.6	88	70	158	29	23	53	237	101		
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	15.0	10.5	12.7	125	93	218	42	31	73	175	100		
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	17.8	15.7	16.7	81	73	154	27	24	51	285	73		
N09000001	Antrim & Newtonabbey		Northern Ireland	NI	16.0	17.6	16.9	26	31	57	9	10	19	9	9		
N09000002	Armagh City, Banbridge & Craigavon		Northern Ireland	NI	12.8	12.0	12.3	30	30	60	10	10	20	4	7		
N09000003	Belfast		Northern Ireland	NI	18.6	19.4	19.0	65	74	139	22	25	46	11	2		
N09000004	Causeway Coast & Glens		Northern Ireland	NI	17.5	10.0	13.7	32	19	51	11	6	17	8	6		
N09000005	Derry City & Strabane		Northern Ireland	NI	18.9	16.3	17.6	32	29	61	11	10	20	10	1		
N09000006	Fermanagh & Omagh		Northern Ireland	NI	15.7	8.7	12.2	22	12	34	7	4	11	3	4		
N09000007	Lisburn & Castlereagh		Northern Ireland	NI	13.6	10.2	11.9	23	19	42	8	6	14	2	11		
N09000008	Mid & East Antrim		Northern Ireland	NI	17.6	9.1	13.2	32	17	49	11	6	16	7	8		
N09000009	Mid Ulster		Northern Ireland	NI	12.3	10.2	11.2	20	16	36	7	5	12	1	5		
N09000010	Newry, Mourne & Down		Northern Ireland	NI	14.9	10.4	12.6	29	21	50	10	7	17	5	3		
N09000011	Ards & North Down		Northern Ireland	NI	13.6	12.1	12.8	31	30	61	10	10	20	6	10		
S12000005	Clackmannanshire		Scotland	SCO	26.2	26.4	26.3	19	21	40	6	7	13	31	8		
S12000006	Dumfries & Galloway		Scotland	SCO	14.8	13.9	14.3	36	35	71	12	12	24	8	14		
S12000008	East Ayrshire		Scotland	SCO	17.0	22.2	19.7	28	40	68	9	13	23	26	6		
S12000010	East Lothian		Scotland	SCO	20.2	6.7	13.1	28	10	38	9	3	13	6	22		
S12000011	East Renfrewshire		Scotland	SCO	15.4	10.2	12.6	18	14	32	6	5	11	5	32		
S12000013	Eilean Siar		Scotland	SCO	16.1	13.5	14.8	7	6	13	2	2	4	11	11		
S12000014	Falkirk		Scotland	SCO	22.0	17.0	19.3	45	38	83	15	13	28	24	16		
S12000015	Fife		Scotland	SCO	16.3	12.5	14.3	83	69	152	28	23	51	10	17		
S12000017	Highland		Scotland	SCO	18.0	16.2	17.1	63	59	122	21	20	41	20	19		
S12000018	Inverclyde		Scotland	SCO	23.0	13.0	17.7	25	16	41	8	5	14	21	5		
S12000019	Midlothian		Scotland	SCO	18.4	14.7	16.5	22	19	41	7	6	14	17	15		
S12000020	Moray		Scotland	SCO	17.7	15.9	16.7	24	23	47	8	8	16	19	24		
S12000021	North Ayrshire		Scotland	SCO	20.9	17.4	19.1	41	39	80	14	13	27	23	3		
S12000023	Orkney Islands		Scotland	SCO	14.0	5.8	9.8	5	2	7	2	1	2	1	25		
S12000024	Perth & Kinross		Scotland	SCO	10.3	10.3	10.3	23	24	47	8	8	16	2	27		
S12000026	Scottish Borders		Scotland	SCO	13.5	9.8	11.6	25	19	44	8	6	15	4	20		
S12000027	Shetland Islands		Scotland	SCO	23.9	6.2	15.1	8	2	10	3	1	3	13	26		
S12000028	South Ayrshire		Scotland	SCO	28.5	14.4	21.1	51	27	78	17	9	26	27	12		
S12000029	South Lanarkshire		Scotland	SCO	21.8	17.2	19.4	92	78	170	31	26	57	25	9		
S12000030	Stirling		Scotland	SCO	14.1	14.6	14.3	16	19	35	5	6	12	9	23		
S12000033	Aberdeen City		Scotland	SCO	17.9	15.4	16.6	45	40	85	15	13	28	18	29		

**Table 1.25 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), under 75s by local authority, United Kingdom 2015/17**

[Back to Table of Contents](#)

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75									
					Age standardised stroke (CBVD) death rates per 100,000			Total number of premature stroke (CBVD) deaths 2015/17			Average number of annual stroke (CBVD) deaths for 2015/17			ASDR Rank (1 = lowest death rate)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N
S12000034	Aberdeenshire		Scotland	SCO	19.4	12.3	15.8	67	44	111	22	15	37	16
S12000035	Argyll & Bute		Scotland	SCO	19.8	11.7	15.7	28	18	46	9	6	15	15
S12000036	City of Edinburgh		Scotland	SCO	18.0	13.5	15.6	93	76	169	31	25	56	14
S12000038	Renfrewshire		Scotland	SCO	27.6	15.5	21.2	61	38	99	20	13	33	28
S12000039	West Dunbartonshire		Scotland	SCO	19.6	23.2	21.5	22	30	52	7	10	17	29
S12000040	West Lothian		Scotland	SCO	17.1	13.1	15.0	37	31	68	12	10	23	12
S12000041	Angus		Scotland	SCO	13.0	9.9	11.4	23	18	41	8	6	14	3
S12000042	Dundee City		Scotland	SCO	20.6	16.9	18.7	34	31	65	11	10	22	22
S12000044	North Lanarkshire		Scotland	SCO	25.4	20.1	22.5	103	93	196	34	31	65	30
S12000045	East Dunbartonshire		Scotland	SCO	14.7	13.5	14.1	22	23	45	7	8	15	7
S12000046	Glasgow City		Scotland	SCO	33.3	23.6	28.2	203	156	359	68	52	120	32
W06000003	Conwy	Clwyd	Wales / Cymru	WAL										16
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL										13
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL										19
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL										14
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL										18
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL										11
W06000010	Cardiganshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL										9
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL										5
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL										1
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL										6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL										22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL										7
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL										10
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL										17
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL										8
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL										3
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL										2
W06000023	Powys	Powys	Wales / Cymru	WAL										20
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL										21
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL										12
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL										15
W06000012	Neath Port Talbot / Castell-nedd Port Tal West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL											4

**Notes:** ICD-10 codes I60-I69. Directly standardised using the 2013 European Standard Population.  
- indicates number of deaths considered too small to calculate rate.

**Source:** England: Mortality rates from Public Health England Public Health Profiles <https://fingertips.phe.org.uk/profile/mortality-profile>  
Wales: Data not available at time of publication  
Scotland: Mortality rates calculated in partnership with National Records of Scotland.  
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency.

**Table 1.26 Deaths and mortality rates for cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), 2017**

[Back to Table of Contents](#)

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

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

Actual numbers of UK deaths for 2017 from official statistical agencies are shown in table 1.2

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

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

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

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

Regions and Countries as defined by the Global Health Data Exchange

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

Source: Global Health Data Exchange, GBD Results Tool

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

**Table 1.27 Years of life lost (YLLs) and disability-adjusted life years (DALYs) for CVD, CHD, and stroke, 2017**

[Back to Table of Contents](#)

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

**Notes:** YLLs refers to 'Years of Life Lost'. This is the estimated number of years of life that are lost due to premature mortality.  
DALYs refers to 'Disability-Adjusted Life Years'. This is the sum of years lost due to premature death (YLLs) and years lived with disability (YLDs).  
DALYs are also defined as years of healthy life lost.  
A/S = estimated age-standardised rates per 100,000 inhabitants.  
ICD-10 codes for cardiovascular disease (CVD) B33.2, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.9, I20-I25.9, I28-I28.8, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1  
ICD-10 codes for coronary heart disease (CHD) I20-I25.9  
ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3  
Regions and countries as defined by the Global Health Data Exchange <http://ghdx.healthdata.org/countries>

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



bhf.org.uk/statistics

## Heart and Circulatory Disease Statistics 2018 - Chapter 2 - Morbidity

This chapter reports on the morbidity of a number of heart and circulatory conditions, including cardiovascular disease (CVD), coronary heart disease (CHD), myocardial infarction (heart attack), heart failure, and stroke.

Drawing on data from hospital episode and admissions statistics, GP registers and national health surveys, we present current estimates as well as trend data for incidence and prevalence of these conditions.

Collecting accurate data is a challenge since the presence and onset of disease is not absolute. Individuals may not be aware that they have a disease or be able to accurately report its onset.

Moreover, some diseases might be misdiagnosed by health professionals. As a result, the estimates of morbidity presented in this chapter should be interpreted with some caution.

### INCIDENCE - HOSPITAL EPISODES

[T2.1](#) Inpatient episodes by main diagnosis in NHS hospitals, by gender, England, Scotland, Wales, Northern Ireland and United Kingdom 2017/18

### TRENDS IN INCIDENCE - HOSPITAL EPISODES

[T2.2a](#) All inpatient episodes by main diagnosis, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2017/18

[T2.2b](#) Inpatient episodes by main diagnosis for men, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2017/18

[T2.2c](#) Inpatient episodes by main diagnosis for women, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2017/18

### INCIDENCE - HOSPITAL ADMISSIONS

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

### TRENDS IN INCIDENCE - HOSPITAL ADMISSIONS

[T2.4a](#) All inpatient admissions by main diagnosis, England, Scotland, Wales, Northern Ireland and United Kingdom 2009/10 - 2017/18

[T2.4b](#) Inpatient admissions by main diagnosis for men, England, Scotland, Wales, Northern Ireland and United Kingdom 2009/10 - 2017/18

[T2.4c](#) Inpatient admissions by main diagnosis for women, England, Scotland, Wales, Northern Ireland and United Kingdom 2009/10 - 2017/18

### PREVALENCE AND INCIDENCE

[T2.5](#) Prevalence of selected cardiovascular conditions by UK nation and English region, United Kingdom - 2017/18

[T2.6](#) Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) by UK nation and English region, 2017

[T2.7](#) Prevalence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) by UK nation and English region, 2017

### TRENDS IN PREVALENCE

[T2.8](#) Prevalence of cardiovascular conditions from GP patient registers (QOF), England 2004/05-2017/18

[T2.9](#) Prevalence of cardiovascular conditions from GP patient registers (QOF), Scotland 2008/09-2017/18

[T2.10](#) Prevalence of cardiovascular conditions from GP patient registers (QOF), Wales 2006/07-2017/18

[T2.11](#) Prevalence of cardiovascular conditions from GP patient registers (QOF), Northern Ireland 2004/05-2017/18

[T2.12](#) Prevalence of cardiovascular conditions from national health survey by gender, England 2003-2017

[T2.13](#) Prevalence of cardiovascular conditions from national health survey by gender, Scotland 2003-2017

[T2.14](#) Prevalence of heart conditions and stroke from national health survey by gender, Wales 2003/04-2015

[T2.15](#) Prevalence of cardiovascular conditions from national health survey by age group, England 2003-2017

[T2.16](#) Prevalence of cardiovascular conditions from national health survey by age group, Scotland 2003-2017

[T2.17](#) Prevalence of cardiovascular conditions from national health survey by equivalised household income and gender, England 2017

[T2.18](#) Prevalence of cardiovascular conditions from national health survey by equivalised household income and gender, Scotland 2017

### CO-MORBIDITIES

[T2.19](#) Percentage of coronary heart disease (CHD) patients with each comorbidity for each UK nation and UK

[T2.20](#) Percentage of coronary heart disease (CHD) patients with each comorbidity by age band

[T2.21](#) Percentage of coronary heart disease (CHD) patients with each comorbidity by Townsend score

[T2.22](#) Percentage of coronary heart disease (CHD) patients with each comorbidity by age band and BMI category

[T2.23](#) Percentage of stroke (CBVD) patients with each comorbidity for each UK nation and UK

[T2.24](#) Percentage of stroke (CBVD) patients with each comorbidity by age band

[T2.25](#) Percentage of stroke (CBVD) patients with each comorbidity by Townsend score

[T2.26](#) Percentage of stroke (CBVD) patients with each comorbidity by age band and BMI category

### GLOBAL INCIDENCE & PREVALENCE

[T2.27](#) Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations 2017

[T2.28](#) Prevalence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations 2017

**Table 2.1 Inpatient episodes by main diagnosis in National Health Service hospitals by gender, England, Scotland, Wales, Northern Ireland and United Kingdom 2017/18**

[Back to Table of Contents](#)

	England 2017/18		Scotland 2017/18		Wales 2017/18		Northern Ireland 2017/18		United Kingdom, 2017/18		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Both
All diagnoses	9,030,954	10,997,823	787,367	859,571	457,132	579,237	330,581	324,644	10,558,438	12,726,269	23,284,707
<b>All heart and circulatory diseases (F01, I00-I99, Q20-Q28)</b>	<b>849,991</b>	<b>634,904</b>	<b>94,218</b>	<b>72,959</b>	<b>41,986</b>	<b>32,348</b>	<b>25,376</b>	<b>18,277</b>	<b>1,005,850</b>	<b>754,708</b>	<b>1,760,558</b>
Coronary heart disease (I20-I25)	265,359	132,267	32,448	17,488	13,537	7,224	9,863	4,295	320,384	160,497	480,881
<i>Angina pectoris (I20)</i>	40,515	25,640	3,820	2,555	1,797	1,166	1,351	648	47,540	30,235	77,775
<i>Myocardial infarction (I21-I22)</i>	105,637	57,453	16,090	9,693	6,482	3,571	4,082	1,999	132,291	72,716	205,007
Stroke (I60-I69)	106,514	104,418	14,369	15,018	5,495	5,312	1,108	1,205	126,142	124,517	250,659
Atrial fibrillation (I48)	81,883	67,907	7,629	7,405	4,312	3,934	2,702	2,122	88,897	73,963	162,860
Heart failure (I50)	97,528	83,127	9,056	7,985	4,819	4,314	2,725	2,702	112,313	96,444	208,757
Other cardiovascular disease	280,044	229,809	29,369	23,805	12,864	10,563	8,634	7,660	338,148	280,617	618,765
Congenital malformations of the circulatory system (Q20-Q28)	14,596	13,259	1,002	896	548	503	296	274	15,440	14,036	29,476
Vascular dementia (F01)	4,067	4,117	345	362	411	498	48	19	4,526	4,634	9,160
Diabetes (E10-E14)	49,206	38,447	5,289	4,697	2,681	2,255	1,673	1,532	58,053	46,373	
Obesity (E66)	3,268	8,875	146	280	64	138	31	21	3,446	9,225	
All cancer (C00-D48)	1,088,228	1,111,898	100,683	114,099	32,502	29,715	37,481	40,351	1,255,503	1,291,850	
All diseases of the nervous system (G00-G99)	208,462	249,240	18,869	22,396	8,588	11,116	4,577	6,036	238,518	287,387	
All diseases of the respiratory system (J00-J99)	835,741	863,314	85,152	97,683	47,512	48,724	29,448	32,445	983,327	1,023,012	
All diseases of the digestive system (K00-K93)	1,224,378	1,251,188	97,620	99,310	54,099	56,159	39,471	39,397	1,410,414	1,444,756	
All diseases of the genitourinary system (N00-N99)	476,981	648,954	44,185	58,421	26,348	35,140	70,141	58,994	615,309	801,401	
Injury and poisoning (S00-T98)	632,145	651,806	69,499	72,144	30,292	31,397	21,184	21,331	744,363	768,211	
All other diagnoses	3,662,554	5,539,197	271,706	317,582	213,060	332,245	101,199	106,260	4,243,655	6,299,346	

## Notes

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

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

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

## Source

NHS Digital (2018). Hospital Episode Statistics 2017/18.

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

Information Services Division Scotland (2019) Main diagnosis discharges from hospital 2017/18. Personal correspondence.

NHS Wales Informatics Service (2018). The Patient Episode Database for Wales- 2017/18.

[www.infoandstats.wales.nhs.uk](http://www.infoandstats.wales.nhs.uk)

Hospital Information Branch (2018). Northern Ireland Episode Based Inpatient and Day Case Activity Data (2017/18)

[www.health-ni.gov.uk/publications/acute-episode-based-activity-201718](http://www.health-ni.gov.uk/publications/acute-episode-based-activity-201718)

**Table 2.2a All inpatient episodes by main diagnosis in NHS hospitals, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2017/18**

[Back to Table of Contents](#)

ALL		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18
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
	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
	Myocardial infarction (I21-I22)								143,532	148,259	148,460	154,857	159,085	163,090
	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
	Other cardiovascular disease	637,421	651,225	670,428	709,860	746,867	768,378	777,691	773,924	802,869	831,995	882,851	816,806	840,298
Scotland	Heart and circulatory diseases (CVD) (I00-I99)					144,900	149,032	148,739	148,766	157,298	157,676	169,303	165,884	164,572
	Coronary heart disease (I20-I25)					47,923	50,157	48,699	47,640	49,615	48,336	49,424	50,845	49,936
	Myocardial infarction (I21-I22)**								22,077	25,860	25,362	26,454	26,924	25,783
	Stroke (I60-I69)					22,441	22,639	22,662	23,737	19,257	26,607	28,359	29,392	29,387
	Other cardiovascular disease					74,536	76,236	77,378	77,389	88,426	82,733	91,520	85,647	85,249
Wales	Heart and circulatory diseases (CVD) (I00-I99)	74,824	75,338	75,981	78,714	81,599	80,903	77,589	80,953	88,105	83,308	85,068	79,167	72,374
	Coronary heart disease (I20-I25)	24,516	25,060	25,156	25,074	24,893	24,300	23,904	24,335	25,647	22,832	23,398	22,399	20,761
	Myocardial infarction (I21-I22)								9,031	9,731	8,688	9,960	9,844	10,053
	Stroke (I60-I69)	11,660	11,143	11,188	12,313	12,411	12,471	11,460	12,080	13,265	12,476	12,405	11,648	10,807
	Other cardiovascular disease	38,648	39,135	39,637	41,327	44,295	44,132	42,225	44,538	49,193	48,000	49,265	45,120	40,806
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
	Coronary heart disease (I20-I25)						14,409	14,060	14,520	15,378	15,014	14,963	14,262	14,158
	Myocardial infarction (I21-I22)								4,614	5,288	5,369	5,776	5,985	6,081
	Stroke (I60-I69)						4,872	3,199	2,943	3,383	2,486	2,202	2,208	2,313
	Other cardiovascular disease						23,606	29,358	25,412	25,535	27,092	27,323	26,045	26,545
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)						1,644,631	1,654,580	1,646,688	1,690,931	1,708,895	1,779,179	1,706,368	1,728,818
	Coronary heart disease (I20-I25)						493,962	496,171	490,584	491,647	479,713	481,672	483,822	482,481
	Myocardial infarction (I21-I22)								179,254	189,138	187,879	197,047	201,838	205,007
	Stroke (I60-I69)						238,317	231,757	234,841	233,261	239,362	246,548	248,928	253,439
	Other cardiovascular disease						912,352	926,652	921,263	966,023	989,820	1,050,959	973,618	992,898

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

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

**Source:** NHS Digital (2018). Hospital Episode Statistics. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>  
Information Services Division Scotland (2019) Main diagnosis discharges from hospital. Personal correspondence.  
NHS Wales Informatics Service (2018). The Patient Episode Database for Wales. [www.infoandstats.wales.nhs.uk](http://www.infoandstats.wales.nhs.uk)  
Hospital Information Branch (2018). Northern Ireland Episode Based Inpatient and Day Case Activity Data [www.health-ni.gov.uk/articles/episode-based-activity](http://www.health-ni.gov.uk/articles/episode-based-activity)



**Table 2.2b Inpatient episodes by main diagnosis in NHS hospitals in men, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2017/18**

[Back to Table of Contents](#)

MEN		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18
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
	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
	Myocardial infarction (I21-I22)								89,924	94,323	94,566	99,026	102,729	105,637
	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
	Other cardiovascular disease	335,117	344,651	353,759	375,858	396,127	407,987	417,673	416,284	431,425	445,763	475,355	443,830	459,455
Scotland	Heart and circulatory diseases (CVD) (I00-I99)					80,575	83,336	83,040	83,723	87,460	88,497	95,072	94,081	92,871
	Coronary heart disease (I20-I25)					30,871	32,357	31,154	31,154	31,695	31,625	31,866	33,206	32,448
	Myocardial infarction (I21-I22)**								14,001	16,003	16,024	16,488	16,932	16,090
	Stroke (I60-I69)					10,898	10,965	10,864	11,565	9,430	13,025	14,078	14,697	14,369
	Other cardiovascular disease					38,806	40,014	41,022	41,004	46,335	43,847	49,128	46,178	46,054
Wales	Heart and circulatory diseases (CVD) (I00-I99)	40,598	41,128	41,525	43,120	44,510	44,492	42,800	45,446	49,671	46,862	47,575	45,283	41,027
	Coronary heart disease (I20-I25)	15,153	15,597	15,821	15,946	15,915	15,621	15,240	15,745	16,806	15,129	15,128	14,620	13,537
	Myocardial infarction (I21-I22)								5,606	6,194	5,619	6,338	6,255	6,482
	Stroke (I60-I69)	5,461	5,460	5,304	5,715	5,827	6,045	5,389	5,672	6,617	6,009	5,961	5,960	5,495
	Other cardiovascular disease	19,984	20,071	20,400	21,459	22,768	22,826	22,171	24,029	26,248	25,724	26,486	24,703	21,995
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
	Coronary heart disease (I20-I25)						9,800	9,521	9,846	10,697	10,418	10,386	9,798	9,863
	Myocardial infarction (I21-I22)									2,962	3,461	3,518	3,938	4,082
	Stroke (I60-I69)						2,485	1,628	1,437	1,742	1,242	1,126	1,039	1,108
	Other cardiovascular disease						12,214	15,442	12,871	13,235	14,113	14,410	13,913	14,061
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)						920,216	932,352	931,211	956,757	965,544	1,007,136	975,215	990,258
	Coronary heart disease (I20-I25)						321,316	322,869	321,847	324,132	317,224	318,404	321,137	321,207
	Myocardial infarction (I21-I22)								112,493	119,981	119,727	125,636	129,854	132,291
	Stroke (I60-I69)						115,859	113,175	115,176	115,382	118,873	123,353	125,454	127,486
	Other cardiovascular disease						483,041	496,308	494,188	517,243	529,447	565,379	528,624	541,565

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

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

**Source:** NHS Digital (2018). Hospital Episode Statistics. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>  
Information Services Division Scotland (2019) Main diagnosis discharges from hospital. Personal correspondence.  
NHS Wales Informatics Service (2018). The Patient Episode Database for Wales. [www.infoandstats.wales.nhs.uk](http://www.infoandstats.wales.nhs.uk)  
Hospital Information Branch (2018). Northern Ireland Episode Based Inpatient and Day Case Activity Data [www.health-ni.gov.uk/articles/episode-based-activity](http://www.health-ni.gov.uk/articles/episode-based-activity)

**Table 2.2c Inpatient episodes by main diagnosis in NHS hospitals in women, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2017/18**

[Back to Table of Contents](#)

WOMEN		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18
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
	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
	Myocardial infarction (I21-I22)								53,608	53,936	53,894	55,831	56,356	57,453
	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
	Other cardiovascular disease	302,304	306,574	316,669	334,002	350,740	360,391	360,018	357,640	371,444	386,232	407,496	372,976	380,843
Scotland	Heart and circulatory diseases (CVD) (I00-I99)					64,325	65,696	65,699	65,043	69,838	69,179	74,231	71,803	71,701
	Coronary heart disease (I20-I25)					17,052	17,800	17,545	16,486	17,920	16,711	17,558	17,639	17,488
	Myocardial infarction (I21-I22)**								8,076	9,857	9,338	9,966	9,992	9,693
	Stroke (I60-I69)					11,543	11,674	11,798	12,172	9,827	13,582	14,281	14,695	15,018
	Other cardiovascular disease					35,730	36,222	36,356	36,385	42,091	38,886	42,392	39,469	39,195
Wales	Heart and circulatory diseases (CVD) (I00-I99)	34,220	34,207	34,456	35,594	37,089	36,410	34,789	38,084	38,434	36,446	37,493	33,884	31,347
	Coronary heart disease (I20-I25)	9,357	9,461	9,335	9,128	8,978	8,679	8,664	9,214	8,841	7,703	8,270	7,779	7,224
	Myocardial infarction (I21-I22)								3,425	3,537	3,069	3,622	3,589	3,571
	Stroke (I60-I69)	6,199	5,683	5,884	6,598	6,584	6,426	6,071	6,878	6,648	6,467	6,444	5,688	5,312
	Other cardiovascular disease	18,664	19,063	19,237	19,868	21,527	21,305	20,054	21,992	22,945	22,276	22,779	20,417	18,811
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
	Coronary heart disease (I20-I25)						4,609	4,539	4,674	4,681	4,596	4,577	4,464	4,295
	Myocardial infarction (I21-I22)								1,652	1,827	1,851	1,992	2,047	1,999
	Stroke (I60-I69)						2,387	1,571	1,506	1,641	1,244	1,076	1,169	1,205
	Other cardiovascular disease						11,392	13,916	12,541	12,300	12,979	12,913	12,132	12,484
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)						724,414	722,228	718,054	734,174	743,351	772,043	731,153	738,560
	Coronary heart disease (I20-I25)						172,646	173,302	169,361	167,515	162,489	163,268	162,685	161,274
	Myocardial infarction (I21-I22)								66,761	69,157	68,152	71,411	71,984	72,716
	Stroke (I60-I69)						122,458	118,582	120,135	117,879	120,489	123,195	123,474	125,953
	Other cardiovascular disease						429,310	430,344	428,558	448,780	460,373	485,580	444,994	451,333

**Notes:**

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

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

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

**Source:**

NHS Digital (2018). Hospital Episode Statistics.

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

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

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

[www.infoandstats.wales.nhs.uk](http://www.infoandstats.wales.nhs.uk)

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

[www.health-ni.gov.uk/articles/episode-based-activity](http://www.health-ni.gov.uk/articles/episode-based-activity)

**Table 2.3 Inpatient admissions by main diagnosis in National Health Service hospitals by gender, England, Scotland, Wales, Northern Ireland and United Kingdom 2017/18**

[Back to Table of Contents](#)

	England 2017/18		Scotland 2017/18		Wales 2017/18		Northern Ireland 2017/18		United Kingdom, 2017/18		Both
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	
All diagnoses	7,494,500	9,126,700	574,549	627,236	374,081	474,002	269,300	264,400	8,712,429	10,492,338	19,204,768
All heart and circulatory diseases (F01, I00-I99, Q20-Q28)	547,300	408,900	47,859	36,947	22,482	18,008	19,000	13,700	636,641	477,555	1,114,196
Coronary heart disease (I20-I25)	176,900	88,200	15,672	8,461	6,484	3,568	8,100	3,500	207,156	103,729	310,885
<i>Angina pectoris (I20)</i>	28,200	17,900	2,637	1,765	960	683	1,100	500	32,897	20,848	53,745
<i>Myocardial infarction (I21-I22)</i>	53,300	28,900	6,640	3,872	3,297	1,792	3,000	1,400	66,237	35,964	102,201
Stroke (I60-I69)	56,200	55,100	5,869	5,933	3,538	3,471	700	700	66,307	65,204	131,511
Atrial fibrillation (I48)	60,100	49,800	5,151	4,502	2,018	2,077	2,200	1,700	69,469	58,079	127,548
Heart failure (I50)	46,100	39,300	4,058	3,507	2,200	2,012	1,500	1,500	53,858	46,319	100,177
Other cardiovascular disease	195,500	164,900	16,344	13,815	7,855	6,470	6,200	6,000	225,899	191,185	417,084
Congenital malformations of the circulatory system (Q20-Q28)	10,800	9,800	589	553	115	111	300	300	11,804	10,764	22,568
Vascular dementia (F01)	1,700	1,800	176	176	272	299	x	x	2,148	2,275	4,423
Diabetes (E10-E14)	30,500	23,800	3,141	2,636	1,588	1,360	800	800	36,029	28,596	
Obesity (E66)	2,900	7,900	86	170	42	76	x	x	3,028	8,146	
All cancer (C00-D48)	1,002,000	1,023,800	84,654	99,248	16,254	16,617	35,100	37,700	1,138,008	1,177,365	
All diseases of the nervous system (G00-G99)	170,000	203,200	14,081	17,329	4,326	5,005	3,500	4,700	191,907	230,234	
All diseases of the respiratory system (J00-J99)	522,000	539,300	51,292	56,469	30,568	30,839	17,400	19,200	621,260	645,808	
All diseases of the digestive system (K00-K93)	1,061,200	1,084,500	78,445	80,244	17,926	19,297	32,300	32,200	1,189,871	1,216,241	
All diseases of the genitourinary system (N00-N99)	379,000	515,700	32,932	43,886	12,292	17,054	63,900	53,700	488,124	630,340	
Injury and poisoning (S00-T98)	506,100	521,800	50,474	49,160	22,679	23,982	14,700	14,900	593,953	609,842	
All other diagnoses	3,273,500	4,797,800	211,585	241,147	245,924	341,764	82,600	87,500	3,813,608	5,468,211	

**Notes:**

Finished consultant episodes (FCE): ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.  
 For England and Northern Ireland, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred.  
 x - data not recorded

**Source:**

NHS Digital (2018). Hospital Episode Statistics 2017/18. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/2017-18>  
 Information Services Division Scotland (2019) Main diagnosis discharges from hospital 2017/18. Personal correspondence.  
 NHS Wales Informatics Service (2018). The Patient Episode Database for Wales- 2017/18. [www.infoandstats.wales.nhs.uk](http://www.infoandstats.wales.nhs.uk)  
 Hospital Information Branch (2018). Northern Ireland Episode Based Inpatient and Day Case Activity Data (2017/18) [www.health-ni.gov.uk/publications/acute-episode-based-activity-201718](http://www.health-ni.gov.uk/publications/acute-episode-based-activity-201718)

**Table 2.4a All inpatient admissions by main diagnosis in NHS hospitals, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2017/18**

[Back to Table of Contents](#)

ALL		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18
England	Heart and circulatory diseases (CVD) (I00-I99)						944,100	949,600	938,000	952,300	969,800	1,001,800	925,500	932,100
	Coronary heart disease (I20-I25)						281,800	282,600	278,300	275,500	270,700	268,500	268,200	265,100
	Myocardial infarction (I21-I22)								77,000	79,100	78,900	80,500	81,500	82,200
	Stroke (I60-I69)						106,800	108,900	109,900	109,200	109,700	111,200	110,200	111,300
	Other cardiovascular disease						555,500	558,100	549,800	567,600	589,400	622,100	547,100	555,700
Scotland	Heart and circulatory diseases (CVD) (I00-I99)											90,763	84,136	83,312
	Coronary heart disease (I20-I25)											24,110	24,414	24,133
	Myocardial infarction (I21-I22)											10,489	10,648	10,512
	Stroke (I60-I69)											11,779	11,884	11,802
	Other cardiovascular disease											54,874	47,838	47,377
Wales	Heart and circulatory diseases (CVD) (I00-I99)	50,076	48,971	47,853	48,251	46,217	45,846	44,759	43,739	44,360	41,758	41,573	41,478	39,693
	Coronary heart disease (I20-I25)	14,363	14,021	13,614	13,559	12,777	12,403	12,054	11,399	10,954	10,138	10,366	10,299	10,052
	Myocardial infarction (I21-I22)								4,408	4,586	4,426	5,111	5,062	5,089
	Stroke (I60-I69)	7,091	6,750	6,745	7,312	6,892	7,111	7,066	7,031	7,351	7,303	7,342	7,294	7,009
	Other cardiovascular disease	28,622	28,200	27,494	27,380	26,548	26,332	25,639	25,309	26,055	24,317	23,865	23,885	22,632
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)							39,000	35,700	36,800	35,800	34,700	32,800	32,100
	Coronary heart disease (I20-I25)							12,300	12,700	13,700	13,000	12,700	12,100	11,600
	Myocardial infarction (I21-I22)								3,600	4,100	4,100	4,300	4,500	4,400
	Stroke (I60-I69)							2,200	2,000	2,200	1,600	1,400	1,400	1,400
	Other cardiovascular disease							24,500	21,000	20,900	21,200	20,600	19,300	19,100
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)											1,168,836	1,083,914	1,087,205
	Coronary heart disease (I20-I25)											315,676	315,013	310,885
	Myocardial infarction (I21-I22)											100,400	101,710	102,201
	Stroke (I60-I69)											131,721	130,778	131,511
	Other cardiovascular disease											721,439	638,123	644,909

**Notes:** Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.  
For England and Northern Ireland, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred.

**Source:** NHS Digital (2018). Hospital Episode Statistics. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>  
Information Services Division Scotland (2019) Main diagnosis discharges from hospital. Personal correspondence.  
NHS Wales Informatics Service (2018). The Patient Episode Database for Wales. [www.infoandstats.wales.nhs.uk](http://www.infoandstats.wales.nhs.uk)  
Hospital Information Branch (2018). Northern Ireland Episode Based Inpatient and Day Case Activity Data [www.health-ni.gov.uk/articles/episode-based-activity](http://www.health-ni.gov.uk/articles/episode-based-activity)

**Table 2.4b All inpatient admissions by main diagnosis in NHS hospitals in men, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2017/18**

[Back to Table of Contents](#)

MEN		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18
England	Heart and circulatory diseases (CVD) (I00-I99)						528,500	536,000	531,000	539,600	548,100	567,500	529,100	534,800
	Coronary heart disease (I20-I25)						183,300	184,200	182,600	182,000	178,900	177,900	178,300	176,900
	<i>Myocardial infarction (I21-I22)</i>								48,200	50,300	50,300	51,400	52,600	53,300
	Stroke (I60-I69)						51,900	53,400	54,100	54,000	54,700	55,800	55,600	56,200
	Other cardiovascular disease						293,300	298,400	294,300	303,600	314,500	333,800	295,200	301,700
Scotland	Heart and circulatory diseases (CVD) (I00-I99)											50,474	47,729	47,094
	Coronary heart disease (I20-I25)											15,589	15,985	15,672
	<i>Myocardial infarction (I21-I22)</i>											6,622	6,777	6,640
	Stroke (I60-I69)											5,900	6,017	5,869
	Other cardiovascular disease											28,985	25,727	25,553
Wales	Heart and circulatory diseases (CVD) (I00-I99)	27,053	26,680	26,154	26,444	25,634	25,513	24,832	24,584	24,790	23,220	22,810	23,368	22,095
	Coronary heart disease (I20-I25)	8,786	8,609	8,447	8,503	8,142	7,965	7,646	7,260	7,036	6,542	6,578	6,653	6,484
	<i>Myocardial infarction (I21-I22)</i>								2,751	2,926	2,860	3,274	3,241	3,297
	Stroke (I60-I69)	3,276	3,295	3,153	3,382	3,318	3,467	3,341	3,355	3,645	3,540	3,559	3,709	3,538
	Other cardiovascular disease	14,991	14,776	14,554	14,559	14,174	14,081	13,845	13,969	14,109	13,138	12,673	13,006	12,073
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)							22,200	20,100	21,300	20,700	20,200	19,100	18,700
	Coronary heart disease (I20-I25)							8,300	8,600	9,500	9,000	8,800	8,300	8,100
	<i>Myocardial infarction (I21-I22)</i>								2,300	2,700	2,700	2,800	3,000	3,000
	Stroke (I60-I69)							1,100	1,000	1,100	800	700	700	700
	Other cardiovascular disease							12,800	10,500	10,700	10,900	10,700	10,100	9,900
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)											660,984	619,297	622,689
	Coronary heart disease (I20-I25)											208,867	209,238	207,156
	<i>Myocardial infarction (I21-I22)</i>											64,096	65,618	66,237
	Stroke (I60-I69)											65,959	66,026	66,307
	Other cardiovascular disease											386,158	344,033	349,326

**Notes:** Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.  
For England and Northern Ireland, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred.

**Source:** NHS Digital (2018). Hospital Episode Statistics. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>  
Information Services Division Scotland (2019) Main diagnosis discharges from hospital. Personal correspondence.  
NHS Wales Informatics Service (2018). The Patient Episode Database for Wales. [www.infoandstats.wales.nhs.uk](http://www.infoandstats.wales.nhs.uk)  
Hospital Information Branch (2018). Northern Ireland Episode Based Inpatient and Day Case Activity Data [www.health-ni.gov.uk/articles/episode-based-activity](http://www.health-ni.gov.uk/articles/episode-based-activity)

**Table 2.4c Inpatient admissions by main diagnosis in NHS hospitals in women, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 - 2017/18**

[Back to Table of Contents](#)

WOMEN		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18
England	Heart and circulatory diseases (CVD) (I00-I99)						415,600	413,600	407,000	412,700	421,700	434,300	396,400	397,300
	Coronary heart disease (I20-I25)						98,500	98,400	95,700	93,500	91,800	90,600	89,900	88,200
	<i>Myocardial infarction (I21-I22)</i>								28,800	28,800	28,600	29,100	28,900	28,900
	Stroke (I60-I69)						54,900	55,500	55,800	55,200	55,000	55,400	54,600	55,100
	Other cardiovascular disease						262,200	259,700	255,500	264,000	274,900	288,300	251,900	254,000
Scotland	Heart and circulatory diseases (CVD) (I00-I99)											40,289	36,407	36,218
	Coronary heart disease (I20-I25)											8,521	8,429	8,461
	<i>Myocardial infarction (I21-I22)</i>											3,867	3,871	3,872
	Stroke (I60-I69)											5,879	5,867	5,933
	Other cardiovascular disease											25,889	22,111	21,824
Wales	Heart and circulatory diseases (CVD) (I00-I99)	23,023	22,291	21,699	21,807	20,583	20,333	19,927	19,155	19,570	18,538	18,763	18,110	17,598
	Coronary heart disease (I20-I25)	5,577	5,412	5,167	5,056	4,635	4,438	4,408	4,139	3,918	3,596	3,788	3,646	3,568
	<i>Myocardial infarction (I21-I22)</i>								1,657	1,660	1,566	1,837	1,821	1,792
	Stroke (I60-I69)	3,815	3,455	3,592	3,930	3,574	3,644	3,725	3,676	3,706	3,763	3,783	3,585	3,471
	Other cardiovascular disease	13,631	13,424	12,940	12,821	12,374	12,251	11,794	11,340	11,946	11,179	11,192	10,879	10,559
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)							16,800	15,600	15,500	15,100	14,500	13,700	13,400
	Coronary heart disease (I20-I25)							4,000	4,100	4,200	4,000	3,900	3,800	3,500
	<i>Myocardial infarction (I21-I22)</i>								1,300	1,400	1,400	1,500	1,500	1,400
	Stroke (I60-I69)							1,100	1,000	1,100	800	700	700	700
	Other cardiovascular disease							11,700	10,500	10,200	10,300	9,900	9,200	9,200
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)											507,852	464,617	464,516
	Coronary heart disease (I20-I25)											106,809	105,775	103,729
	<i>Myocardial infarction (I21-I22)</i>											36,304	36,092	35,964
	Stroke (I60-I69)											65,762	64,752	65,204
	Other cardiovascular disease											335,281	294,090	295,583

**Notes:** Finished consultant episodes; ordinary admissions and day cases combined. Pregnancy cases not included. ICD-10 codes in parentheses.  
For England and Northern Ireland, male/female estimates are pro rata based on finished consultant episodes splits, rounded to nearest hundred.

**Source:** NHS Digital (2018). Hospital Episode Statistics. <https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/>  
Information Services Division Scotland (2019) Main diagnosis discharges from hospital. Personal correspondence.  
NHS Wales Informatics Service (2018). The Patient Episode Database for Wales. [www.infoandstats.wales.nhs.uk](http://www.infoandstats.wales.nhs.uk)  
Hospital Information Branch (2018). Northern Ireland Episode Based Inpatient and Day Case Activity Data [www.health-ni.gov.uk/articles/episode-based-activity](http://www.health-ni.gov.uk/articles/episode-based-activity)

**Table 2.5 Prevalence of selected cardiovascular conditions by nation and region, United Kingdom 2017/18**

[Back to Table of Contents](#)

Nation/Region	List size	Coronary Heart Disease Register		Stroke or Transient Ischaemic Attacks (TIA) Register		Hypertension Register		Heart Failure Register		Atrial Fibrillation Register		Peripheral Arterial Disease (PAD) Register		BHF CVD estimate	
		N	%	N	%	N	%	N	%	N	%	N	%	N	%
East Midlands	4,996,060	169,132	3.4	94,135	1.9	731,968	14.7	49,275	1.0	101,359	2.0	29,672	0.6	560,000	11.2
East of England	6,458,693	198,857	3.1	112,049	1.7	921,341	14.3	50,468	0.8	128,126	2.0	31,881	0.5	660,000	10.2
London	9,792,591	192,858	2.0	103,493	1.1	1,080,733	11.0	51,680	0.5	105,721	1.1	32,617	0.3	620,000	6.3
North East England	2,764,436	115,053	4.2	61,813	2.2	433,854	15.7	31,645	1.1	58,410	2.1	24,601	0.9	370,000	13.4
North West England	7,724,133	281,605	3.6	151,345	2.0	1,129,919	14.6	77,173	1.0	157,501	2.0	63,429	0.8	930,000	12.0
South East England	9,524,806	272,807	2.9	165,275	1.7	1,319,745	13.9	70,664	0.7	198,424	2.1	49,405	0.5	960,000	10.1
South West England	5,746,112	202,891	3.5	124,775	2.2	854,185	14.9	55,303	1.0	141,428	2.5	37,879	0.7	710,000	12.4
West Midlands	6,181,839	200,885	3.2	114,580	1.9	918,346	14.9	52,507	0.8	119,666	1.9	36,996	0.6	670,000	10.8
Yorkshire and The Humber	5,748,396	209,340	3.6	112,447	2.0	825,905	14.4	50,326	0.9	114,139	2.0	40,588	0.7	670,000	11.7
England	58,937,066	1,843,428	3.1	1,039,912	1.8	8,215,996	13.9	489,041	0.8	1,124,774	1.9	347,068	0.6	6,150,000	10.4
Scotland	5,698,741	218,585	4.0	123,730	2.2	760,580	13.8	45,979	0.8	100,896	1.8	46,493	0.8	700,000	12.3
Wales	3,231,317	118,148	3.7	67,615	2.1	506,031	15.7	33,192	1.0	72,293	2.2	-	-	375,000	11.6
Northern Ireland	1,970,735	73,835	3.7	37,199	1.9	268,400	13.6	17,402	0.9	37,325	1.9	-	-	225,000	11.4
UK	69,837,859	2,253,996	3.2	1,268,456	1.8	9,751,007	14.0	585,614	0.8	1,335,288	1.9	-	-	7,450,000	10.7

**Notes:**

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

South East England includes 2016/17 data for Aylesbury Vale/Chiltern (now Buckinghamshire CCG) as they did not provide data for QOF

For Scotland, some practices are missing from the registers, so diagnosed numbers may be slightly higher (97% coverage)

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

**Source:**

England - Health and Social Care Information Centre. QOF achievement data 2017/18  
<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2017-18>

Wales - StatsWales. QOF achievement data 2017/18  
<http://gov.wales/statistics-and-research/general-medical-services-contract/?lang=en>

Scotland - ISD Scotland. prevalence data 2017/18 obtained via personal communication

Northern Ireland - Department of Health, Social Services and Public Safety. QOF exception reporting data 2017/18  
<https://www.health-ni.gov.uk/topics/doh-statistics-and-research/quality-outcomes-framework-qof>

**Table 2.6 Incidence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD) by nation and region, United Kingdom 2017**

[Back to Table of Contents](#)

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

**Notes:**

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

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

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

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

**Source:**

Global Health Data Exchange, GBD Results Tool

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



**Table 2.7 Prevalence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD) by nation and region, United Kingdom 2017**

[Back to Table of Contents](#)

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

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

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

**Table 2.8 Prevalence of selected cardiovascular conditions, England 2004/05-2017/18**

[Back to Table of Contents](#)

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

**Notes:**

CHD: Coronary Heart Disease.

TIA: Transient Ischaemic Attack.

**Source:**

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

<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2017-18>

**Table 2.9 Prevalence of selected cardiovascular conditions, Scotland 2008/09-2017/18**

[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
	%	%	%	%	%	%	%	%	%	%
CHD	4.4	4.4	4.4	4.4	4.3	4.3	4.1	4.1	4.0	4.0
Stroke and TIA	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2
Atrial fibrillation	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.8
Heart failure	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

**Notes:**

CHD: Coronary Heart Disease.

TIA: Transient Ischaemic Attack.

**Source:**

Scotland - ISD Scotland. QOF achievement data to 2015/16. Prevalence data for 2016/17 and 2017/18 obtained via personal communication

**Table 2.10 Prevalence of selected cardiovascular conditions, Wales 2006/07-2017/18**

[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
	%	%	%	%	%	%	%	%	%	%	%	%
CHD	4.3	4.2	4.2	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.7	3.7
Stroke and TIA	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1
Atrial fibrillation	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.2
Heart failure	1.0	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0

**Notes:**

CHD: Coronary Heart Disease.

TIA: Transient Ischaemic Attack.

**Source:**

Wales - StatsWales. QOF achievement data

<http://gov.wales/statistics-and-research/general-medical-services-contract/?lang=en>

**Table 2.11 Prevalence of selected cardiovascular conditions, Northern Ireland 2004/05-2017/18**

[Back to Table of Contents](#)

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

**Notes:**

CHD: Coronary Heart Disease.

TIA: Transient Ischaemic Attack.

**Source:**

Department of Health, Social Services and Public Safety. QOF exception reporting data 2017/18

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

**Table 2.12 Prevalence of selected cardiovascular conditions by gender, England 2003-2017**

[Back to Table of Contents](#)

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

**Notes:**

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

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

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

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

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**Source:**

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

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

**Table 2.13 Prevalence of selected cardiovascular conditions by gender, Scotland 2003-2017**

[Back to Table of Contents](#)

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

**Notes:** For adults aged 16 years and over.  
 CHD: Coronary heart disease.  
 CVD: Cardiovascular disease.

**Source:** The Scottish Government (2018). The Scottish Health Survey 2017.  
<https://www.gov.scot/publications/scottish-health-survey-2017-volume-1-main-report/pages/20/>

**Table 2.14 Prevalence of selected heart conditions and stroke by gender, Wales 2003/04-2015**

[Back to Table of Contents](#)

		%									
		2003/04	2007	2008	2009	2010	2011	2012	2013	2014	2015
Myocardial infarction	Men	6.0	6.0	6.0	5.0	5.0	5.1	5.1	5.0	4.6	4.9
	Women	3.0	3.0	2.0	3.0	2.6	2.5	2.6	2.3	2.4	2.3
	All adults	5.0	4.0	4.0	4.0	3.8	3.8	3.8	3.6	3.5	3.6
Angina	Men	6.0	5.0	4.0	5.0	4.1	4.0	3.9	3.8	3.3	3.1
	Women	5.0	4.0	4.0	4.0	3.4	3.5	3.2	3.1	3.0	2.9
	All adults	5.0	5.0	4.0	4.0	3.7	3.7	3.5	3.4	3.2	3.0
Heart failure	Men	2.0	2.0	2.0	2.0	1.6	1.9	1.5	1.9	1.6	1.8
	Women	1.0	1.0	1.0	1.0	1.2	1.2	1.1	1.2	1.0	1.1
	All adults	2.0	2.0	1.0	1.0	1.4	1.5	1.3	1.5	1.3	1.4
Any heart condition	Men	11.0	11.0	10.0	10.0	9.5	9.7	9.9	9.9	9.6	9.4
	Women	9.0	8.0	8.0	8.0	7.3	7.6	7.6	7.0	7.5	7.3
	All adults	10.0	9.0	9.0	9.0	8.4	8.6	8.7	8.4	8.5	8.3
Stroke	Men	3.0	2.0	3.0	3.0	2.8	2.8	2.7	3.0	3.0	3.0
	Women	3.0	2.0	2.0	2.0	2.1	2.3	2.0	2.5	2.3	2.5
	All adults	3.0	2.0	2.0	2.0	2.5	2.6	2.3	2.7	2.7	2.7

**Notes:**

For adults aged 16 years and over.

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

**Source:**

The Welsh Government (2016). Welsh Health Surveys: 2003/04 - 2015 (accessed January 2017)

<http://gov.wales/statistics-and-research/welsh-health-survey/?tab=previous&lang=en>

*New series = National Survey for Wales - data will be included in next compendium*



**Table 2.15 Prevalence of selected cardiovascular conditions by age group, England 2003 to 2017**

[Back to Table of Contents](#)

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

**Notes:**

For all adults aged 16 years and over.

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

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

Data have been weighted for non-response.

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

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**Source:**

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

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

**Table 2.16 Prevalence of selected cardiovascular conditions by age group, Scotland 2003-2017**

[Back to Table of Contents](#)

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

**Notes:** For all adults aged 16 years and over.  
CHD: Coronary heart disease.  
CVD: Cardiovascular disease.

**Source:** The Scottish Government (2018). The Scottish Health Survey 2017.  
<https://www.gov.scot/publications/scottish-health-survey-2017-volume-1-main-report/pages/20/>

**Table 2.17 Prevalence of selected cardiovascular conditions by by equivalised household income and gender, England 2017**

[Back to Table of Contents](#)

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

**Notes:**

For all adults aged 35 years and over.

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

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

Data in this table are age-standardised.

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**Source:**

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

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

**Table 2.18 Prevalence of selected cardiovascular conditions by by equivalised household income and gender, Scotland 2017**

[Back to Table of Contents](#)

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

**Notes:**

For all adults aged 16 years and over.

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

CVD: Cardiovascular disease, i.e. had cardiovascular condition (excluding diabetes/high BP)

**Source:**

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

<https://www.gov.scot/publications/scottish-health-survey-2017-volume-1-main-report/pages/20/>

Table 2.19 Percentage of coronary heart disease (CHD) patients with each comorbidity 4N and UK

[Back to Table of Contents](#)

	THIN base	% of CHD patients with each comorbidity																				
		Atrial Fibrillation (AF)	Heart failure	Stroke/ transient ischaemic attack (TIA)	Peripheral Vascular Disease (PVD)	Hypertension	Diabetes	Dementia	Dementia and/or Stroke	Hypertension and/or Dementia	Hypertension and/or Stroke	Heart Failure and/or Dementia	Heart Failure and/or Stroke	Diabetes and/or Dementia and/or Stroke	Heart Failure and/or Stroke and/or Dementia	Hypertension and/or Stroke and/or Dementia	AF and/or Stroke and/or Dementia	Any CVD* comorbidity	Any CVD* comorbidity or hypertension	Any CVD* comorbidity or hypertension or dementia	Any comorbidity (at least 1)	3 or more comorbidities
England	81,585	15.4%	12.0%	13.5%	7.3%	56.1%	25.9%	5.0%	17.1%	58.0%	60.5%	16.3%	23.1%	38.0%	26.2%	61.9%	28.2%	35.6%	69.1%	70.1%	92.2%	56.6%
Wales	17,138	16.0%	14.0%	14.3%	6.6%	57.7%	27.2%	3.4%	16.6%	59.0%	62.1%	16.8%	25.6%	38.8%	27.6%	63.1%	28.3%	37.4%	70.8%	71.5%	92.8%	57.7%
Scotland	31,145	14.0%	13.4%	14.8%	9.0%	53.6%	24.5%	4.9%	18.1%	55.5%	58.7%	17.6%	25.7%	37.5%	28.5%	60.1%	28.1%	38.0%	68.5%	69.5%	92.4%	57.4%
Northern Ireland	8,069	15.4%	12.1%	13.5%	8.5%	55.6%	25.3%	4.9%	17.0%	57.5%	60.0%	16.1%	23.0%	37.0%	26.0%	61.5%	28.2%	35.9%	68.8%	69.9%	92.4%	60.1%
UK estimate	n/a	15.4%	12.3%	13.6%	7.4%	56.1%	25.9%	4.9%	17.1%	58.0%	60.5%	16.4%	23.4%	38.0%	26.4%	61.9%	28.2%	35.9%	69.2%	70.2%	92.3%	56.9%
Estimated number of CHD patients with each comorbidity in the UK	n/a	350,000	280,000	300,000	170,000	1,300,000	600,000	110,000	390,000	1,300,000	1,400,000	370,000	530,000	860,000	600,000	1,400,000	640,000	810,000	1,600,000	1,600,000	2,100,000	1,300,000

**Notes:**  
\* CVD here includes: Atrial fibrillation, heart failure, stroke, TIA and PVD

**Example lines:**  
15.4% of CHD patients in the UK are living with atrial fibrillation  
55.5% of CHD patients in Scotland are living with hypertension and/or dementia  
92.3% of CHD patients in the UK are living with at least one other comorbidity

**Source**  
The Health Improvement Network (THIN) 2015

**Table 2.20 Percentage of coronary heart disease (CHD) patients with each comorbidity by age band**

[Back to Table of Contents](#)

Age band	THIN base	% of CHD patients with each comorbidity																				
		Atrial Fibrillation (AF)	Heart failure	Stroke/ TIA	Peripheral Vascular Disease (PVD)	Hypertension	Diabetes	Dementia	Dementia and/or Stroke	Hypertension and/or Dementia	Hypertension and/or Stroke	Heart Failure and/or Dementia	Heart Failure and/or Stroke	Heart Failure and/or Stroke and/or Dementia	Hypertension and/or Stroke and/or Dementia	AF and/or Stroke and/or Dementia	Diabetes and/or Dementia and/or Stroke	Any CVD* comorbidity	Any CVD* comorbidity or hypertension	Any CVD* comorbidity or hypertension or dementia	Any comorbidity (at least 1)	3 or more comorbidities
45-54	8,190	2.9%	6.5%	5.1%	3.3%	31.8%	21.4%	0.1%	5.2%	31.8%	34.5%	6.6%	11.0%	11.1%	34.5%	7.8%	24.9%	15.7%	41.4%	41.4%	78.8%	29.4%
55-64	22,413	6.0%	8.1%	7.5%	6.0%	44.2%	25.6%	0.3%	7.8%	44.4%	47.5%	8.4%	14.6%	14.8%	47.6%	12.9%	30.5%	22.8%	55.6%	55.8%	86.1%	40.2%
65-74	41,917	12.0%	10.3%	11.1%	7.8%	55.0%	27.7%	1.8%	12.4%	55.8%	58.9%	11.9%	19.7%	21.0%	59.6%	22.1%	35.8%	31.8%	67.7%	68.2%	92.1%	52.6%
75+	63,975	22.3%	16.5%	19.3%	8.9%	64.1%	25.2%	9.0%	25.6%	67.4%	69.7%	24.1%	32.0%	37.4%	72.2%	40.7%	44.0%	47.3%	79.2%	80.9%	96.8%	70.3%

**Notes:**

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

**Source**

The Health Improvement Network (THIN) 2015

**Table 2.21 Percentage of coronary heart disease (CHD) patients with each comorbidity by Townsend score**

[Back to Table of Contents](#)

[Back to Table of Contents](#)

Townsend	THIN base	% of CHD patients with each comorbidity																				
		Atrial Fibrillation (AF)	Heart failure	Stroke/ TIA	Peripheral Vascular Disease (PVD)	Hypertension	Diabetes	Dementia	Dementia and/or Stroke	Hypertension and/or Dementia	Hypertension and/or Stroke	Heart Failure and/or Dementia	Heart Failure and/or Stroke	Heart Failure and/or Stroke and/or Dementia	Hypertension and/or Stroke and/or Dementia	AF and/or Stroke and/or Dementia	Diabetes and/or Dementia and/or Stroke	Any CVD* comorbidity	Any CVD* comorbidity or hypertension	Any CVD* comorbidity or hypertension or dementia	Any comorbidity (at least 1)	3 or more comorbidities
1 (Least deprived)	29,694	15.9%	11.3%	12.5%	6.0%	54.8%	22.1%	4.5%	15.8%	56.6%	59.0%	15.2%	21.7%	24.6%	60.3%	27.6%	33.8%	34.2%	67.7%	68.7%	91.0%	51.9%
2	29,662	15.7%	12.4%	13.3%	6.8%	55.4%	23.6%	5.1%	17.0%	57.3%	59.8%	16.6%	23.3%	26.4%	61.3%	28.2%	35.9%	35.4%	68.5%	69.5%	91.2%	54.1%
3	28,299	15.6%	12.6%	13.7%	7.8%	56.3%	25.9%	4.8%	17.1%	58.1%	60.6%	16.7%	23.9%	26.8%	61.9%	28.4%	38.1%	36.5%	69.6%	70.6%	92.7%	57.5%
4	26,142	14.3%	13.2%	14.6%	8.8%	56.6%	28.3%	4.9%	18.0%	58.4%	61.3%	17.3%	25.0%	28.0%	62.6%	28.3%	40.7%	37.5%	69.8%	70.7%	93.4%	60.9%
5 (Most deprived)	19,028	13.5%	13.9%	15.6%	10.0%	55.6%	30.2%	4.5%	18.8%	57.3%	61.1%	17.6%	26.5%	29.1%	62.4%	28.2%	42.7%	38.8%	70.4%	71.3%	94.1%	63.7%

**Notes:**

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

**Source**

The Health Improvement Network (THIN) 2015

**Table 2.22 Percentage of coronary heart disease (CHD) patients with each comorbidity by age band and BMI category**

[Back to Table of Contents](#)

Age	BMI category	THIN base	% of CHD patients with each comorbidity																				
			Atrial Fibrillation (AF)	Heart failure	Stroke/TIA	Peripheral Vascular Disease (PVD)	Hypertension	Diabetes	Dementia	Dementia and/or Stroke	Hyp and/or Dementia	Hyp and/or Stroke	HF and/or Dementia	HF and/or Stroke	HF and/or Stroke and/or Dementia	Hyp and/or Stroke and/or Dementia	AF and/or Stroke and/or Dementia	Diabetes and/or Dementia and/or Stroke	Any CVD* comorbidity	Any CVD* comorbidity or hypertension	Any CVD* comorbidity or hypertension or dementia	Any comorbidity (at least 1)	3 or more comorbidities
65-74	Not obese	25,379	10.9%	9.3%	10.7%	7.9%	49.7%	21.1%	1.9%	12.2%	50.6%	54.0%	11.0%	18.6%	19.9%	54.7%	20.8%	30.0%	30.1%	63.3%	63.9%	90.4%	47.2%
	Obese	15,677	13.8%	11.9%	11.6%	7.7%	64.6%	39.3%	1.5%	12.7%	65.1%	67.9%	13.2%	21.6%	22.5%	68.2%	24.1%	46.0%	34.7%	75.6%	75.9%	95.4%	62.3%
75+	Not obese	47,284	21.9%	15.7%	19.3%	9.0%	62.1%	22.3%	9.1%	25.7%	65.6%	68.0%	23.4%	31.4%	36.9%	70.7%	40.4%	41.8%	46.7%	77.9%	79.7%	96.4%	68.4%
	Obese	14,503	23.4%	19.3%	18.2%	8.7%	71.8%	36.9%	6.0%	22.4%	73.3%	75.9%	24.0%	33.1%	36.5%	77.0%	39.2%	50.2%	48.6%	83.8%	84.5%	98.4%	77.0%

**Notes:**

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

**Source**

The Health Improvement Network (THIN) 2015



Table 2.23 Percentage of stroke (CBVD) patients with each comorbidity for each Nation and the UK

[Back to Table of Contents](#)

	THIN base	% of stroke patients with each comorbidity																				
		Atrial Fibrillation (AF)	Heart failure	Coronary Heart Disease (CHD)	Peripheral Vascular Disease (PVD)	Hypertension	Diabetes	Dementia	Dementia and/or CHD	Hypertension and/or Dementia	Hypertension and/or CHD	Heart Failure and/or Dementia	Heart Failure and/or CHD	Heart Failure and/or CHD and/or Dementia	Hypertension and/or CHD and/or Dementia	AF and/or CHD and/or Dementia	Diabetes and/or Dementia and/or CHD	Any CVD* comorbidity	Any CVD* comorbidity or Hypertension	Any CVD* comorbidity or Hypertension or dementia	Any comorbidity (at least 1)	3 or more comorbidities
England	56,149	17.9%	6.9%	21.4%	5.9%	60.2%	20.5%	8.4%	27.6%	63.1%	67.0%	14.7%	24.5%	30.4%	69.3%	38.7%	40.4%	37.6%	72.2%	76.7%	93.3%	60.3%
Wales	15,505	17.6%	7.6%	22.6%	6.0%	61.9%	21.8%	5.9%	26.9%	63.7%	68.8%	12.8%	25.9%	29.9%	70.2%	37.4%	40.6%	38.2%	73.7%	77.4%	93.6%	60.2%
Scotland	24,035	15.6%	6.9%	24.0%	7.4%	58.2%	19.7%	8.6%	30.0%	61.5%	66.6%	14.8%	26.6%	32.3%	69.0%	38.9%	41.5%	38.6%	71.4%	75.8%	93.5%	60.1%
Northern Ireland	5,586	17.2%	8.5%	24.7%	7.8%	59.4%	20.1%	8.4%	30.8%	62.4%	67.4%	16.1%	28.2%	34.0%	69.6%	40.4%	41.8%	40.3%	72.2%	76.0%	93.8%	62.8%
UK estimate	n/a	17.7%	7.0%	21.8%	6.1%	60.1%	20.4%	8.3%	27.9%	63.0%	67.0%	14.6%	24.9%	30.7%	69.3%	38.7%	40.5%	37.8%	72.2%	76.6%	93.4%	60.3%
Estimated number of stroke survivors with each comorbidity in the UK	n/a	220,000	90,000	280,000	80,000	760,000	260,000	100,000	350,000	800,000	850,000	190,000	320,000	390,000	880,000	490,000	510,000	480,000	920,000	970,000	1,200,000	770,000

Notes

\* CVD here includes: Atrial fibrillation, heart failure, CHD and PVD

Example lines:

17.7% of stroke patients in the UK are living with atrial fibrillation  
30% of stroke patients in Scotland are living with dementia and/or CHD  
93.4% of stroke patients in the UK are living with at least one other comorbidity

Source

The Health Improvement Network (THIN) 2015

Table 2.24 Percentage of stroke (CBVD) patients with each comorbidity by age band

[Back to Table of Contents](#)

Age band	THIN base	% of stroke patients with each comorbidity																				
		Atrial Fibrillation (AF)	Heart failure	Coronary Heart Disease (CHD)	Peripheral Vascular Disease (PVD)	Hypertension	Diabetes	Dementia	Dementia and/or CHD	Hypertension and/or Dementia	Hypertension and/or CHD	Heart Failure and/or Dementia	Heart Failure and/or CHD	Heart Failure and/or CHD and/or Dementia	Hypertension and/or CHD and/or Dementia	AF and/or CHD and/or Dementia	Diabetes and/or Dementia and/or CHD	Any CVD* comorbidity	Any CVD* comorbidity or Hypertension	Any CVD* comorbidity or Hypertension or dementia	Any comorbidity (at least 1)	3 or more comorbidities
45-54	6,879	3.1	1.9	7.3	2.4	33.7	13.4	0.4	7.7	34.0	37.5	2.3	8.4	8.8	37.8	10.3	18.8	12.3	40.3	45.4	81.0	32.0
55-64	14,355	7.0	3.4	14.3	4.6	48.7	19.5	1.1	15.2	49.2	54.7	4.4	15.7	16.7	55.2	20.6	29.5	23.3	59.0	63.7	89.0	44.8
65-74	26,233	13.8	5.5	21.2	6.9	60.5	22.9	3.8	24.0	62.1	68.0	9.0	23.5	26.2	69.2	33.3	38.7	35.2	73.0	77.1	94.0	57.0
75+	50,637	24.9	10.1	28.6	7.5	69.3	21.4	13.8	38.5	74.0	77.6	22.6	32.9	42.3	81.1	52.6	50.1	49.4	83.4	87.8	97.8	73.3

Notes

\* CVD here includes: Atrial fibrillation, heart failure, CHD and PVD

Source

The Health Improvement Network (THIN) 2015

**Table 2.25 Percentage of stroke (CBVD) patients with each comorbidity by Townsend score**

[Back to Table of Contents](#)

Townsend score	THIN base	% of stroke patients with each comorbidity																				
		Atrial Fibrillation (AF)	Heart failure	Coronary Heart Disease (CHD)	Peripheral Vascular Disease (PVD)	Hypertension	Diabetes	Dementia	Dementia and/or CHD	Hypertension and/or Dementia	Hypertension and/or CHD	Heart Failure and/or Dementia	Heart Failure and/or CHD	Heart Failure and/or CHD and/or Dementia	Hypertension and/or CHD and/or Dementia	AF and/or CHD and/or Dementia	Diabetes and/or Dementia and/or CHD	Any CVD* comorbidity	Any CVD* comorbidity or Hypertension	Any CVD* comorbidity or Hypertension or dementia	Any comorbidity (at least 1)	3 or more comorbidities
1 (Least deprived)	19,234	19.0%	6.6%	20.5%	5.0%	59.3%	17.4%	7.4%	25.9%	61.9%	66.0%	13.4%	23.6%	28.7%	68.0%	38.1%	36.8%	37.2%	71.7%	75.6%	92.6%	56.4%
2	19,670	18.6%	7.0%	21.3%	5.9%	60.5%	18.7%	8.8%	27.8%	63.7%	67.5%	15.1%	24.4%	30.6%	70.0%	39.2%	39.3%	37.8%	72.6%	76.8%	92.9%	59.3%
3	18,951	17.8%	7.1%	22.1%	6.1%	60.3%	20.5%	8.3%	28.1%	63.3%	67.1%	14.7%	25.2%	31.0%	69.4%	38.8%	40.9%	38.1%	72.2%	76.8%	93.5%	60.5%
4	17,150	15.9%	7.6%	24.1%	7.3%	60.3%	22.7%	8.3%	30.0%	63.3%	68.2%	15.1%	27.2%	32.8%	70.4%	39.3%	43.6%	39.1%	73.0%	77.5%	94.4%	63.0%
5 (Most deprived)	12,470	14.7%	7.7%	25.7%	8.8%	58.3%	24.4%	7.5%	30.9%	60.9%	67.3%	14.5%	28.5%	33.5%	69.2%	38.7%	45.1%	39.9%	72.1%	76.6%	94.6%	65.4%

Notes

\* CVD here includes: Atrial fibrillation, heart failure, CHD and PVD

Source

The Health Improvement Network (THIN) 2015

**Table 2.26 Percentage of stroke (CBVD) patients with each comorbidity by age band and BMI category**

[Back to Table of Contents](#)

Age	BMI category	THIN base	% of Stroke patients with each comorbidity by BMI category at age 65																				
			Atrial Fibrillation (AF)	Heart failure	Coronary Heart Disease (CHD)	Peripheral Vascular Disease (PVD)	Hypertension	Diabetes	Dementia	Dementia and/or CHD	Hyp and/or Dementia	Hyp and/or CHD	HF and/or Dementia	HF and/or CHD	HF and/or CHD and/or Dementia	Hyp and/or CHD and/or Dementia	AF and/or CHD and/or Dementia	Diabetes and/or Dementia and/or CHD	Any CVD* comorbidity	Any CVD* comorbidity or hypertension	Any CVD* comorbidity or hypertension or dementia	Any comorbidity (at least 1)	3 or more comorbidities
65-74	Not obese	16,682	12.9%	4.5%	19.2%	7.2%	56.2%	16.8%	3.7%	22.1%	57.9%	63.8%	8.0%	21.1%	23.9%	65.1%	30.9%	33.1%	32.9%	69.3%	73.0%	92.8%	52.8%
	Obese	8,524	16.1%	7.6%	26.3%	6.7%	70.7%	36.4%	3.3%	28.6%	71.7%	78.1%	10.7%	29.3%	31.5%	78.8%	38.8%	51.5%	41.0%	82.0%	86.7%	97.1%	67.3%
75+	Not obese	37,329	24.6%	9.4%	28.4%	7.8%	67.9%	19.0%	13.5%	38.1%	72.6%	76.6%	21.8%	32.3%	41.5%	80.0%	52.0%	48.4%	48.9%	82.7%	86.9%	97.6%	71.9%
	Obese	10,097	26.6%	13.2%	31.7%	7.4%	77.7%	34.4%	9.8%	38.4%	80.1%	84.8%	21.5%	37.3%	43.4%	86.6%	53.3%	57.4%	53.2%	88.9%	92.3%	99.1%	80.5%

**Notes**

\* CVD here includes: Atrial fibrillation, heart failure, CHD and PVD

**Source**

The Health Improvement Network (THIN) 2015

**Table 2.27 Incidence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), 2017**

[Back to Table of Contents](#)

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

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

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

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

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

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

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

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

**Table 2.28 Prevalence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), 2017**

[Back to Table of Contents](#)

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

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

# UK please check other tables in this chapter (but shown here for comparative purposes)

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

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

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

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

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



[bhf.org.uk/statistics](https://bhf.org.uk/statistics)

## Heart and Circulatory Disease Statistics 2019 - Chapter 3 - Treatment

This chapter reports on different methods of treatment for heart and circulatory diseases, with a focus on treatments for cardiovascular disease (CVD) and coronary heart disease (CHD). Includes tables and figures for trends and latest statistics on the number of prescriptions, operations and cardiac arrest survival in the UK.

### PRESCRIPTIONS

- [T3.1](#) Prescriptions used in the prevention and treatment of cardiovascular disease, England - 1981 to 2018
- [T3.2](#) Prescriptions used in the prevention and treatment of cardiovascular disease, Wales - 2005 to 2017
- [T3.3](#) Prescriptions used in the prevention and treatment of cardiovascular disease, Scotland - 2001/02 to 2017/18
- [T3.4](#) Prescriptions used in the prevention and treatment of cardiovascular disease, Northern Ireland - 2000 to 2017
- [T3.5](#) Prescriptions used in the prevention and treatment of cardiovascular disease, UK - latest year

### OPERATIONS

- [T3.6](#) Number of CABGs and PCIs, UK - 1977 to 2015
- [T3.7](#) Number of valve replacements and repairs, UK - 2003 to 2015
- [T3.8](#) Number and rate of CABGs, Scotland - 2008/09 to 2017/18

### TRANSPLANTS

- [T3.9](#) Cardiothoracic transplant list, UK - 2017/18
- [T3.10](#) Cardiothoracic transplants and rate per million population, by country, UK - 2010/11 to 2017/18

### IMPLANTS

- [T3.11](#) New Pacemaker implants and rate per million population, by country, UK - 2010/11 to 2015/16

### OUT-OF-HOSPITAL CARDIAC ARRESTS

- [T3.12](#) Out-of-hospital cardiac arrest survival rates, by Ambulance Service, England - 2011-12 to 2017-18; 2011 to 2018
- [T3.13](#) Out-of-hospital cardiac arrest survival rates, Scotland - 2011-12 to 2017-18

**Table 3.1 Prescriptions used in the prevention and treatment of cardiovascular disease, England 1981 to 2018**

[Back to Table of Contents](#)

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

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

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



**Table 3.2 Prescriptions used in the prevention and treatment of cardiovascular disease, Wales 2005 to 2017**

[Back to Table of Contents](#)

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

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

Source: Health Statistics and Analysis Unit (2018). Prescription cost analysis 2017. Welsh Government:Cardiff and previous editions.

<https://gov.wales/prescriptions-dispensed-community-2017>

**Table 3.3 Prescriptions used in the prevention and treatment of cardiovascular disease, Scotland 2001/02 to 2017/18**

[Back to Table of Contents](#)

Prescriptions	Thousands (000s)													
	2001/02	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18
Digoxin and other positive inotropic drugs (2.1)	358	323	315	305	296	291	283	276	269	260	252	246	241	236
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
Anti-arrhythmic drugs (2.3)	102	90	85	81	77	73	70	71	69	68	67	66	66	65
Beta-adrenoreceptor blocking drugs (2.4)	2,508	3,027	2,940	2,853	2,850	2,883	2,909	2,957	2,998	3,048	3,102	3,150	3,197	3,235
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
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
Anticoagulants and protamine (2.8)	489	612	646	676	707	743	773	819	884	958	1,035	1,108	1,159	1,197
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
Anti-fibrinolytic drugs and haemostatics (2.11)	35	36	38	39	41	42	43	44	47	47	47	48	47	47
Lipid-lowering drugs (2.12)	1,667	3,649	4,081	4,376	4,624	4,826	4,875	4,861	4,907	4,977	5,024	5,002	4,989	5,003
<b>All prescriptions for disease of the circulatory system</b>	<b>16,667</b>	<b>22,418</b>	<b>23,212</b>	<b>23,791</b>	<b>24,312</b>	<b>24,716</b>	<b>24,649</b>	<b>24,660</b>	<b>24,657</b>	<b>24,703</b>	<b>24,764</b>	<b>24,644</b>	<b>24,538</b>	<b>24,361</b>

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

**Source:** ISD Scotland (2018). Prescription Cost Analysis 2017/18. NHS National Services: Edinburgh. and previous editions.

[www.isdscotland.org/Health-Topics/Prescribing-and-medicines/Community-Dispensing/Prescription-Cost-Analysis/](http://www.isdscotland.org/Health-Topics/Prescribing-and-medicines/Community-Dispensing/Prescription-Cost-Analysis/)

**Table 3.4 Prescriptions used in the prevention and treatment of cardiovascular disease, Northern Ireland 2000 to 2017**

[Back to Table of Contents](#)

Prescriptions	Thousands (000s)													
	2000	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Digoxin and other positive inotropic drugs (2.1)	132	107	104	101	99	96	95	93	92	90	88	82	80	75
Diuretics (2.2)	819	1,015	1,009	992	983	983	992	1,002	996	978	961	940	926	908
Anti-arrhythmic drugs (2.3)	41	38	36	35	34	32	31	32	31	30	29	28	28	27
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
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
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
Anticoagulants and protamine (2.8)	138	183	194	207	220	233	249	274	300	334	366	394	427	454
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
Anti-fibrinolytic drugs and haemostatics (2.11)	0	12	12	13	13	14	14	16	17	16	16	16	16	16
Lipid-lowering drugs (2.12)	376	1,047	1,227	1,393	1,534	1,652	1,761	1,838	1,901	1,954	1,988	2,035	2,083	2,130
<b>All prescriptions for disease of the circulatory system</b>	<b>4,226</b>	<b>6,413</b>	<b>6,812</b>	<b>7,195</b>	<b>7,505</b>	<b>7,769</b>	<b>8,073</b>	<b>8,331</b>	<b>8,560</b>	<b>8,736</b>	<b>8,869</b>	<b>8,984</b>	<b>9,136</b>	<b>9,235</b>

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

Source: HSC (2018). Prescription Cost Analysis 2017. Business Services Organisation: Belfast.

[www.hscbusiness.hscni.net/services/1806.htm](http://www.hscbusiness.hscni.net/services/1806.htm)

**Table 3.5 Prescriptions used in the prevention and treatment of cardiovascular disease, United Kingdom, latest year**

[Back to Table of Contents](#)

Prescriptions	England 2018	Wales 2017	Scotland 2017/18	Northern Ireland 2017	UK latest
Digoxin and other positive inotropic drugs (2.1)	3,025	215	236	75	3,552
Diuretics (2.2)	32,353	2,618	2,740	908	38,619
Anti-arrhythmic drugs (2.3)	987	58	65	27	1,137
Beta-adrenoreceptor blocking drugs (2.4)	38,618	2,736	3,235	1,312	45,901
Antihypertensive and heart failure drugs (2.5)	72,128	5,365	5,187	1,854	84,534
Nitrates, calcium blockers & other antianginal drugs (2.6)	50,201	3,544	3,722	1,304	58,772
Anticoagulants and protamine (2.8)	17,992	1,241	1,197	454	20,884
Antiplatelet drugs (2.9)	34,140	2,481	2,926	1,153	40,700
Antifibrinolytic drugs & haemostatics (2.11)	414	33	47	16	510
Lipid-lowering drugs (2.12)	74,289	5,140	5,003	2,130	86,563
<b>All prescriptions for disease of the cardiovascular system</b>	<b>324,236</b>	<b>23,434</b>	<b>24,361</b>	<b>9,235</b>	<b>381,267</b>

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

**Source:** NHS Digital (2019). Prescription cost analysis 2018.  
Health Statistics and Analysis Unit (2018). Prescription cost analysis 2017. Welsh Government:Cardiff and previous editions.  
ISD Scotland (2018). Prescription Cost Analysis 2017/18. NHS National Services: Edinburgh. and previous editions.  
HSC (2018). Prescription Cost Analysis 2017. Business Services Organisation: Belfast.

**Table 3.6 Number of CABGs and PCIs, United Kingdom 1977 to 2015**[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

**Notes:** Operations performed in NHS hospitals and selected private hospitals are included.**Source:** British Cardiovascular Intervention Society (2017). BCIS Audit returns . Personal communication.

The Society for Cardiothoracic Surgery in Great Britain &amp; Ireland (2017). . Accessed in May 2015

<http://bluebook.scts.org/#ActivityRates>

**Table 3.7 Number of valve replacements and repairs, United Kingdom 2003 to 2015**[Back to Table of Contents](#)

Operation	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Isolated aortic valve replacement	3,361	3,494	3,545	3,626	4,040	4,432	4,402	4,288	4,787	4,769	4,893	5,687	5,796
Aortic valve replacement and coronary artery bypass graft (CABG)	2,445	2,519	2,796	2,913	3,122	3,433	3,222	3,144	3,205	3,398	3,240	3,414	3,258
Isolated mitral repair	771	911	1,017	1,118	1,190	1,332	1,316	1,359	1,380	1,491	1,558	1,713	1,850
Mitral repair and coronary artery bypass graft (CABG)	450	552	580	652	591	665	624	581	575	606	573	553	559
Isolated mitral replacement	797	804	740	733	845	876	746	669	687	658	789	1008	1048
Mitral replacement and coronary artery bypass graft (CABG)	347	341	308	349	327	315	307	245	250	241	253	277	286

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

**Source:** The Society for Cardiothoracic Surgery in Great Britain & Ireland (2015).  
<http://bluebook.scts.org/>

**Table 3.8 Number and rate of CABGs, Scotland 2008/09 to 2017/18**[Back to Table of Contents](#)

Gender	Coronary Artery Bypass Graft (CABG)	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18p
<b>Males</b>	Discharges	1,581	1,494	1,382	1,291	1,187	1,207	1,300	1,009	1,095	1,134
	Crude rate per 100,000 population	62.9	59.0	54.2	50.2	46.1	46.7	50.1	38.7	41.7	42.9
	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
<b>Females</b>	Discharges	450	426	365	351	296	331	324	245	275	265
	Crude rate per 100,000 population	16.7	15.8	13.4	12.9	10.8	12.1	11.8	8.9	9.9	9.5
	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
<b>Both Sexes</b>	Discharges	2,031	1,920	1,747	1,642	1,483	1,538	1,624	1,254	1,370	1,399
	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
	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

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

**Source:** SMR1/01 records, all inpatient and daycase discharges.  
All records were extracted from the SMR01 linked database as at November 2018.  
Data for year ending 31st March 2018 are provisional and subject to change in future analyses.  
<https://www.isdscotland.org/Health-Topics/Heart-Disease/Publications/data-tables2017.asp?id=2338#2338>

**Table 3.9 Cardiothoracic transplant list, United Kingdom 2017/18**[Back to Table of Contents](#)

Heart transplant list	New registrations in 2017/18		Total registrations	
	Number	%	Number	%
Remained active / suspended	138	42	300	50
Transplanted	137	41	197	33
Removed	46	14	81	14
Died	11	3	22	4
<b>TOTAL</b>	<b>332</b>		<b>600</b>	

Heart/lung transplant list	Number	%	Number	%
Remained active / suspended	5	38	14	47
Transplanted	6	46	12	40
Removed	0	0	1	3
Died	1	8	3	10
<b>TOTAL</b>	<b>12</b>		<b>30</b>	

**Notes:** Includes re-registrations for second or subsequent transplants  
 Activities for the year ending 31 March 2018

**Source:** NHS Blood and Transplant (2018). 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 2017/18**

[Back to Table of Contents](#)

Heart	2010/11		2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		2017/18	
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>
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
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
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
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
Postcode unknown									1				2		1	
UK	126	2.0	138	2.2	142	2.2	193	3.0	181	2.8	194	3.0	199	3.0	198	3.0

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

#### ALL HEART/HEART & LUNG TRANSPLANTS

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

**Source:** Organ Donation and Transplantation. Quarterly statistics (2019) previous Annual Activity reports. Organ donation and transplantation. NHS Blood and Transplant, NHS.  
<https://www.organdonation.nhs.uk/supporting-my-decision/statistics-about-organ-donation/>

**Table 3.11 Pacemaker new implants and rate per million population, by country, United Kingdom 2010/11 to 2015/16**

[Back to Table of Contents](#)

Country	2010/11		2011/12		2012/13		2013/14		2014/15		2015/16	
	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>	<i>n</i>	<i>rate</i>
England	-	528	-	524	-	559	-	594	-	592	-	621
Wales	-	-	-	-	-	565	-	560	-	596	-	619
Scotland	-	-	-	-	-	-	-	-	-	-	-	-
Northern Ireland	-	-	-	-	-	402	-	413	-	438	-	432

		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:**

**Source:** Figures for England, Wales and Northern Ireland taken from public reports for the National Audit of Cardiac Rhythm Management and are for the financial year. Pacemaker data for Scotland are known to be incomplete and are therefore not shown.

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

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

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

**Table 3.12 Out-of-hospital cardiac arrest survival rates, by Ambulance Service, England 2011-12 to 2017-18; Apr 2011 to Oct 2018**

[Back to Table of Contents](#)

Number of resuscitation attempts by Financial Year								Number of resuscitation attempts by Calendar Year							
Ambulance Service	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2011 (Apr to Dec)	2012	2013	2014	2015	2016	2017	2018 (Jan to Oct)
East Midlands Ambulance Service NHS Trust	1,487	2,935	2,595	2,608	2,338	2,459	2,227	689	2,989	2,674	2,515	2,397	2,466	2,307	1,861
East of England Ambulance Service NHS Trust	3,161	3,059	3,073	3,346	3,127	3,468	3,587	2,324	3,132	2,970	3,234	3,274	3,280	3,579	2,917
Isle of Wight NHS Trust	115	100	132	127	139	111	127	77	110	121	126	142	110	133	95
London Ambulance Service NHS Trust	4,119	4,408	4,239	4,597	4,317	4,357	4,294	3,053	4,268	4,341	4,429	4,373	4,348	4,312	3,204
North East Ambulance Service NHS Foundation Trust	1,340	1,645	1,611	1,550	1,720	1,882	2,071	974	1,603	1,625	1,488	1,717	1,794	2,007	1,566
North West Ambulance Service NHS Trust	2,137	3,414	3,502	3,453	3,371	3,734	3,924	1,556	3,024	3,660	3,523	3,151	3,612	3,921	3,019
South Central Ambulance Service NHS Foundation Trust	1,353	1,031	1,236	1,433	1,392	1,244	1,436	1,044	1,103	1,065	1,471	1,450	1,224	1,354	1,441
South East Coast Ambulance Service NHS Foundation Trust	2,270	2,551	2,691	2,728	2,802	3,021	3,023	1,513	2,566	2,721	2,690	2,752	2,995	2,980	2,405
South Western Ambulance Service NHS Foundation Trust	3,142	3,715	3,750	3,722	3,444	3,680	3,910	2,242	3,572	3,821	3,660	3,474	3,757	3,750	3,073
West Midlands Ambulance Service NHS Foundation Trust	2,282	2,909	3,861	4,100	4,046	3,794	3,777	1,680	2,862	3,470	4,064	4,047	3,850	3,663	3,032
Yorkshire Ambulance Service NHS Trust	2,730	3,017	2,838	2,742	2,676	3,079	2,940	1,970	2,973	2,908	2,719	2,685	2,965	2,968	2,014
<b>England</b>	<b>24,136</b>	<b>28,784</b>	<b>29,528</b>	<b>30,406</b>	<b>29,372</b>	<b>30,829</b>	<b>31,316</b>	<b>17,122</b>	<b>28,202</b>	<b>29,376</b>	<b>29,919</b>	<b>29,462</b>	<b>30,401</b>	<b>30,974</b>	<b>24,627</b>

Number discharged from hospital alive by Financial Year								Number discharged from hospital alive by Calendar Year							
Ambulance Service	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	(Apr to Dec)	2012	2013	2014	2015	2016	2017	(Jan to Oct)
East Midlands Ambulance Service NHS Trust	95	203	128	129	130	149	156	35	212	148	128	138	127	170	154
East of England Ambulance Service NHS Trust	155	192	200	218	196	293	311	116	176	196	226	203	248	316	301
Isle of Wight NHS Trust	5	8	9	7	15	12	14	4	4	12	9	10	13	13	11
London Ambulance Service NHS Trust	381	390	436	416	388	415	402	294	369	420	426	413	400	401	280
North East Ambulance Service NHS Foundation Trust	108	101	110	74	102	134	182	80	113	106	64	112	119	166	156
North West Ambulance Service NHS Trust	174	256	309	321	311	349	382	138	220	310	324	302	337	388	261
South Central Ambulance Service NHS Foundation Trust	76	162	240	240	189	148	212	41	154	220	242	211	152	191	227
South East Coast Ambulance Service NHS Foundation Trust	129	153	198	233	213	248	209	86	153	198	220	230	237	210	182
South Western Ambulance Service NHS Foundation Trust	216	334	386	360	307	305	340	150	321	354	384	310	317	332	265
West Midlands Ambulance Service NHS Foundation Trust	195	217	253	340	348	339	343	152	209	243	316	370	316	343	325
Yorkshire Ambulance Service NHS Trust	167	238	291	292	248	310	301	134	221	270	286	259	290	313	175
<b>England</b>	<b>1,701</b>	<b>2,254</b>	<b>2,560</b>	<b>2,630</b>	<b>2,447</b>	<b>2,702</b>	<b>2,852</b>	<b>1,230</b>	<b>2,152</b>	<b>2,477</b>	<b>2,625</b>	<b>2,558</b>	<b>2,556</b>	<b>2,843</b>	<b>2,337</b>

Proportion discharged from hospital alive % by Financial Year								Proportion discharged from hospital alive % by Calendar Year							
Ambulance Service	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	(Apr to Dec)	2012	2013	2014	2015	2016	2017	(Jan to Oct)
East Midlands Ambulance Service NHS Trust	6.4	6.9	4.9	4.9	5.6	6.1	7.0	5.1	7.1	5.5	5.1	5.8	5.2	7.4	8.3
East of England Ambulance Service NHS Trust	4.9	6.3	6.5	6.5	6.3	8.4	8.7	5.0	5.6	6.6	7.0	6.2	7.6	8.8	10.3
Isle of Wight NHS Trust	4.3	8.0	6.8	5.5	10.8	10.8	11.0	5.2	3.6	9.9	7.1	7.0	11.8	9.8	11.6
London Ambulance Service NHS Trust	9.2	8.8	10.3	9.0	9.0	9.5	9.4	9.6	8.6	9.7	9.6	9.4	9.2	9.3	8.7
North East Ambulance Service NHS Foundation Trust	8.1	6.1	6.8	4.8	5.9	7.1	8.8	8.2	7.0	6.5	4.3	6.5	6.6	8.3	10.0
North West Ambulance Service NHS Trust	8.1	7.5	8.8	9.3	9.2	9.3	9.7	8.9	7.3	8.5	9.2	9.6	9.3	9.9	8.6
South Central Ambulance Service NHS Foundation Trust	5.6	15.7	19.4	16.7	13.6	11.9	14.8	3.9	14.0	20.7	16.5	14.6	12.4	14.1	15.8
South East Coast Ambulance Service NHS Foundation Trust	5.7	6.0	7.4	8.5	7.6	8.2	6.9	5.7	6.0	7.3	8.2	8.4	7.9	7.0	7.6
South Western Ambulance Service NHS Foundation Trust	6.9	9.0	10.3	9.7	8.9	8.3	8.7	6.7	9.0	9.3	10.5	8.9	8.4	8.9	8.6
West Midlands Ambulance Service NHS Foundation Trust	8.5	7.5	6.6	8.3	8.6	8.9	9.1	9.0	7.3	7.0	7.8	9.1	8.2	9.4	10.7
Yorkshire Ambulance Service NHS Trust	6.1	7.9	10.3	10.6	9.3	10.1	10.2	6.8	7.4	9.3	10.5	9.6	9.8	10.5	8.7
<b>England</b>	<b>7.7</b>	<b>7.8</b>	<b>8.7</b>	<b>8.6</b>	<b>8.3</b>	<b>8.8</b>	<b>9.1</b>	<b>7.2</b>	<b>7.6</b>	<b>8.4</b>	<b>8.8</b>	<b>8.7</b>	<b>8.4</b>	<b>9.2</b>	<b>9.5</b>

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

Geographic details for the above ambulance services <https://aace.org.uk/uk-ambulance-service/map-of-nhs-ambulance-services/>

**Source:** NHS England, Ambulance Quality Indicators <https://www.england.nhs.uk/statistics/statistical-work-areas/ambulance-quality-indicators/>

**Table 3.13 Out-of-hospital cardiac arrest survival rates, Scotland 2011-12 to 2017-18**

[Back to Table of Contents](#)

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

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

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

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

**Source:** Out-of-Hospital Cardiac Arrest data linkage project: 2017-2018 results.

<https://www.gov.scot/publications/scottish-out-hospital-cardiac-arrest-data-linkage-project-2017-18-results/pages/7/>



[bhf.org.uk/statistics](http://bhf.org.uk/statistics)

## Heart and Circulatory Disease Statistics 2019 - Chapter 4 - Costs

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

### ECONOMIC & HEALTHCARE COSTS, UK

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

### ENGLAND

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

[Table 4.3](#) NHS expenditure on CVD by Commissioning Region, England - 2013/14

### WALES

[Table 4.4](#) NHS expenditure on CVD by Health Board, Wales - 2016/17

[Table 4.5](#) Financial Impact of Stroke Admissions by Health Board, Wales - 2016/17

[Table 4.6](#) Financial Impact of Heart Failure Admissions for patients with an Emergency Readmission within 30 days by Health Board, Wales - 2016/17

[Table 4.7](#) Financial Impact of non-ST elevation acute coronary syndrome (NSTEMI) Admissions by Health Board, Wales - 2016/17

### NORTHERN IRELAND

[Table 4.8](#) NHS expenditure on CVD by Health and Social Care Trust, Northern Ireland - 2014/15

### SCOTLAND

[Table 4.9](#) NHS expenditure on CVD by care setting and condition, Scotland - 2011/12

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

[Back to Table of Contents](#)

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

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

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

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

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

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

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

### Source:

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

[www.ehnheart.org/cvd-statistics/cvd-statistics-2017.html](http://www.ehnheart.org/cvd-statistics/cvd-statistics-2017.html)

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

[Back to Table of Contents](#)

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

**Notes:**

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

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

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

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

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

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

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

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

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

Total secondary care includes, all Scheduled and Unbundled care.

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

**Source:**

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

**Table 4.3 NHS expenditure on CVD by Commissioning Region, England 2013/14**

[Back to Table of Contents](#)

Region	Expenditure per head of population / £					Total expenditure (£ million)					Percentage of total health care expenditure				
	CHD	Stroke	Rhythm	Other circulation	Total CVD	CHD	Stroke	Rhythm	Other circulation	Total CVD	CHD	Stroke	Rhythm	Other circulation	Total CVD
London	14.6	8.6	5.4	39.1	<b>67.7</b>	132.2	77.8	48.9	354.4	<b>613.4</b>	1.3	0.8	0.5	3.5	<b>6.1</b>
Midlands and East	16.4	12.6	5.9	41.0	<b>75.9</b>	277.8	214.3	100.5	695.5	<b>1,288.1</b>	1.5	1.1	0.5	3.7	<b>6.8</b>
North	19.5	13.6	6.0	44.1	<b>83.2</b>	308.4	215.5	95.1	698.6	<b>1,317.6</b>	1.6	1.1	0.5	3.5	<b>6.6</b>
South	16.9	13.1	6.9	40.2	<b>77.0</b>	235.3	182.3	95.7	559.2	<b>1,072.5</b>	1.5	1.2	0.6	3.6	<b>7.0</b>

**Notes:**

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

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

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

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

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

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

CCGs were allocated to commissioning regions following details at <http://www.england.nhs.uk/about/regional-area-teams/>

**Source:**

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



**Table 4.4 NHS expenditure on CVD by Health Board, Wales 2016/17**[Back to Table of Contents](#)

HSC Trust Name	Expenditure per head / £				Expenditure (£ millions)				Percentage of Total expenditure (%)			
	CHD	Stroke	Other CVD	Total CVD	CHD	Stroke	Other CVD	Total CVD	CHD	Stroke	Other CVD	Total CVD
Abertawe Bro Morgannwg UHB	34.0	31.5	86.5	152.0	18.0	16.7	45.8	80.5	1.6	1.5	4.2	7.3
Aneurin Bevan LHB	34.1	21.7	85.6	141.4	19.9	12.7	50.1	82.7	1.7	1.1	4.3	7.1
Betsi Cadwaladr UHB	34.9	25.5	88.1	148.4	24.2	17.7	61.2	103.1	1.7	1.2	4.3	7.2
Cardiff & Vale UHB	34.0	21.6	64.7	120.2	16.6	10.6	31.7	58.9	1.8	1.1	3.4	6.4
Cwm Taf LHB	41.2	27.3	101.2	169.7	12.3	8.1	30.2	50.6	1.9	1.2	4.6	7.8
Hywel Dda LHB	41.4	33.4	90.2	165.0	15.9	12.8	34.6	63.3	1.9	1.6	4.2	7.7
Powys Teaching LHB	45.1	57.7	123.2	226.0	6.0	7.6	16.3	29.9	2.1	2.7	5.7	10.5
<b>Wales</b>	<b>36.3</b>	<b>27.7</b>	<b>86.7</b>	<b>150.6</b>	<b>112.9</b>	<b>86.2</b>	<b>269.8</b>	<b>468.9</b>	<b>1.8</b>	<b>1.4</b>	<b>4.2</b>	<b>7.3</b>

**Notes:**

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

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

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

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

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

**Source:**

Financial Information Strategy Programme, Public Health Wales NHS Trust (accessed 2018)

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

**Table 4.5 Financial Impact of Stroke Admissions by Health Board, Wales 2016/17**

[Back to Table of Contents](#)

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

**Notes:**

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

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

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

**Source:**

Cardiovascular Atlas of Variation, Public Health Wales NHS, 2019

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

**Table 4.6 Financial Impact of Heart Failure Admissions for patients with an Emergency Readmission within 30 days by Health Board, Wales 2016/17**

[Back to Table of Contents](#)

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

**Notes:**

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

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

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

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

**Source:**

Cardiovascular Atlas of Variation, Public Health Wales NHS, 2019

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

**Table 4.7 Financial Impact of non-ST elevation acute coronary syndrome (NSTEMI) Admissions by Health Board, Wales 2016/17**

[Back to Table of Contents](#)

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

**Notes:**

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

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

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

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

**Source:**

Cardiovascular Atlas of Variation, Public Health Wales NHS, 2019

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

**Table 4.8 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
<b>Northern Ireland</b>	<b>84.8</b>	<b>12.3</b>	<b>126.6</b>	<b>223.6</b>	<b>156.0</b>	<b>22.6</b>	<b>233.0</b>	<b>411.5</b>

**Notes:**

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

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

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

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

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

**Source:**

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

Table 4.9 NHS expenditure on CVD by care setting and condition, Scotland 2011/12

[Back to Table of Contents](#)

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

**Notes:**

Expenditure data included within this workbook are taken from the 2011/12 programme budgeting returns. Programme budgeting returns represent a subset of overall NHS expenditure. Programme budgeting in Scotland involves collating and presenting NHS expenditure on the basis of programmes of care rather than on the basis of inputs or accounting conventions.

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

Scotland does not currently collect programme level cost information from NHS Boards. The principal cost data collection is the Scottish Health Service Costs Book which reports expenditure on the basis of specialty or service (e.g. Family Health Services (FHS)). To calculate expenditure per head of popultion, the ONS revised mid-year population 2011 estimates were used.

**Source:**

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

**Heart and Circulatory Disease Statistics 2019 - Chapter 5 - Risk Factors****IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES IN UK**

[Table 5.1](#) Percentage of heart and circulatory disease (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, UK, 2017

**HIGH BLOOD PRESSURE IN ADULTS**

[Table 5.2](#) Prevalence of high blood pressure in adults by age and gender, England, Scotland, Wales and Northern Ireland, latest available

[Table 5.3](#) Prevalence of untreated high blood pressure in adults by age and gender, England, Scotland, latest available

**DIABETES IN ADULTS**

[Table 5.4](#) Prevalence of doctor-diagnosed diabetes in adults by age and gender, England, Scotland and Wales, latest available

[Table 5.5](#) Prevalence of diabetes by nation and region, UK 2017/18

**CHOLESTEROL LEVEL IN ADULTS**

[Table 5.6](#) Percentage of adults with raised cholesterol by age and gender, England and Scotland, latest available

**OVERWEIGHT AND OBESITY IN ADULTS**

[Table 5.7](#) Prevalence of overweight (including obese) in adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

[Table 5.8](#) Prevalence of obesity in adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

**PHYSICAL INACTIVITY IN ADULTS**

[Table 5.9](#) Percentage of adults NOT meeting physical activity recommendations by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

**SMOKING IN ADULTS**

[Table 5.10](#) Prevalence of cigarette smoking among adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

**ALCOHOL CONSUMPTION IN ADULTS**

[Table 5.11](#) Percentage of adults exceeding weekly alcohol consumption guidelines by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

**FRUIT AND VEGETABLE CONSUMPTION IN ADULTS**

[Table 5.12](#) Percentage of adults NOT meeting 5-a-day fruit and vegetable recommendations by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available

[Table 5.13](#) Average number of portions of fruit and vegetables consumed per day by adults by age and gender, England, Scotland, Wales and Northern Ireland, by latest available

**GLOBAL IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES**

[Table 5.14](#) Percentage of heart and circulatory disease (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors - global estimates, 2017

**Table 5.1 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, UK, 2017**

[Back to Table of Contents](#)

Reset to Published Order	RISK FACTOR (% attributable)	2017 estimated burden - UK DEATHS			2017 estimated burden - UK DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	<b>All modifiable risk factors</b>	<b>78.0%</b>	<b>93.0%</b>	<b>78.4%</b>	<b>79.3%</b>	<b>94.5%</b>	<b>83.2%</b>
	High systolic blood pressure (hypertension)	45.4%	49.9%	45.6%	48.2%	52.9%	49.8%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	42.6%	66.7%	32.0%	44.4%	70.2%	40.6%
	High LDL (bad) cholesterol	24.9%	44.5%	11.3%	26.1%	49.5%	12.0%
	High fasting plasma glucose (diabetes)	23.5%	32.9%	26.1%	20.1%	28.7%	25.0%
	High body-mass index (obesity)	16.5%	20.7%	14.7%	22.3%	27.3%	26.1%
	Tobacco (cigarette smoking, second hand smoke)	11.4%	15.3%	9.0%	15.9%	22.4%	14.1%
	Low physical activity (inactivity, sedentary behaviour)	7.8%	12.1%	6.9%	7.1%	11.5%	6.5%
	Impaired kidney function (renal failure)	7.0%	10.3%	6.6%	5.1%	7.6%	5.6%
	Air pollution (particulate matter)	5.4%	8.2%	5.0%	6.0%	9.6%	5.7%
	Other environmental risks (e.g. lead exposure)	1.7%	2.0%	1.7%	1.5%	1.8%	1.6%
	Alcohol use	-4.1%	-12.0%	2.0%	-2.1%	-10.8%	3.8%
	<i>Other risk factors/unknown</i>	<i>22.0%</i>	<i>7.0%</i>	<i>21.6%</i>	<i>20.7%</i>	<i>5.5%</i>	<i>16.8%</i>

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

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

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

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

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

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

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



**Table 5.2 Prevalence of high blood pressure in adults by age and gender, England, Scotland, Wales and Northern Ireland, latest available**

[Back to Table of Contents](#)

Age in years	Estimated prevalence						Estimated prevalence						Self-reported treated						Self-reported	
	England 2017						Scotland 2016/17						Wales 2015						N Ireland 2014/15	
	Men		Women		All		Men		Women		All		Men		Women		All		All adults	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	1	32	1	34	1	66	x	x	x	x	x	x	x	x	x	x	x	x	4	8
25-34	11	400	4	160	7	560	6	23	3	10	5	33	2	4	1	2	1	6	7	17
35-44	18	650	7	250	13	900	18	58	12	40	15	98	6	10	5	9	5	19	11	26
45-54	26	1,000	23	900	25	1,900	38	150	20	83	29	230	16	34	12	27	14	61	20	52
55-64	43	1,400	30	1,000	37	2,400	45	160	37	140	42	300	34	65	29	58	31	120	34	74
65-74	55	1,500	53	1,500	54	3,000	64	170	58	170	61	340	49	85	44	80	46	170	45	76
75+	58	1,100	70	1,800	64	2,900	62	120	77	210	71	330	51	62	57	94	55	160	50	67
All Adults	28	6,100	25	5,600	27	11,700	33	680	28	650	30	1,330	20	260	20	270	20	530	21	320

**Notes:** Data for England and Scotland includes those being treated or not treated for high blood pressure. Wales only includes those treated for high blood pressure (self-reported).

High Blood Pressure: Systolic BP at or greater than 140mmHg and Dystolic BP at or greater than 90mmHg

Does not include high blood pressure while pregnant. Diagnosed hypertension totals by UK nation and region are featured in Table 2.5

All estimates and totals are rounded to two significant figures and totals may not add up due to rounding.

x = base size too small to report with confidence. Please refer to original survey for details.

All population figures are health survey results applied to mid-2017 estimates published by age band, gender and nation by the Office for National Statistics.

**Source:** NHS Digital (2018). Health Survey for England 2017, Adult Health Tables.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh.

Welsh Government (2016). Welsh Health Survey 2015. Knowledge and Analytical Services: Cardiff.

Northern Ireland Statistics and Research Agency. Central Survey Unit. (2015). Health Survey for Northern Ireland 2014/15.

**Table 5.3 Prevalence of untreated high blood pressure in adults by age and gender, England, Scotland, latest available**

[Back to Table of Contents](#)

Age in years	England 2017						Scotland 2016/17					
	Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	-	-	1	34	1	35	x	x	x	x	x	x
25-34	9	340	4	160	6	490	5	19	1	2	3	21
35-44	13	460	4	150	8	600	17	55	9	32	13	87
45-54	16	610	13	520	14	1,100	22	86	10	41	16	130
55-64	19	600	14	470	17	1,100	19	65	21	76	20	140
65-74	16	410	21	600	18	1,000	26	71	28	84	27	160
75+	14	270	18	470	16	740	33	61	27	72	30	130
All Adults	12	2,700	11	2,400	11	5,100	19	360	14	310	16	670

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

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

All estimates and totals are rounded to two significant figures and may not add up due to rounding.

x = base size too small to report with confidence. Please refer to original survey for details.

All population figures are health survey results applied to mid-2017 estimates published by age band, gender and nation by the Office for National Statistics.

Source: NHS Digital (2018). Health Survey for England 2017, Adult Health Tables.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh.

**Table 5.4 Prevalence of diabetes in adults by age and gender, England, Scotland and Wales, latest available**

[Back to Table of Contents](#)

Age in years	England 2017						Scotland 2017						Wales 2015					
	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
16-24	0.9	29	0.3	9	0.6	38	x	x	x	x	x	x	x	x	x	x	x	x
25-34	1.1	42	0.2	6	0.6	48	0.6	2	0.8	3	0.7	5	1.2	2	0.7	1	1.0	4
35-44	3.5	120	2.3	82	2.9	200	3.0	10	0.5	2	1.7	12	3.0	5	2.6	5	2.8	10
45-54	9.1	350	5.2	200	7.1	550	6.0	23	3.7	15	4.8	38	5.8	12	4.5	10	5.1	22
55-64	10.6	340	7.3	240	8.9	580	11.9	41	8.4	31	10.1	71	14.4	28	8.4	17	11.4	45
65-74	18.9	500	10.9	310	14.7	810	18.0	49	12.8	38	15.3	86	19.4	34	12.9	24	16.0	57
75+	15.1	290	15.6	410	15.4	700	19.0	35	14.6	39	16.5	74	19.7	24	16.6	27	17.9	51
All Adults	7.6	1,600	5.4	1,300	6.5	2,900	7.4	160	5.6	130	6.4	290	8.3	110	6.4	85	7.3	190

Notes: Excludes diabetes in pregnancy. England and Scotland asked if diagnosed; Wales asked if being treated.

x = base size too small to report with confidence. Please refer to original survey for details.

All estimates and totals are rounded to two significant figures and may not add up due to rounding.

All population figures are health survey results applied to mid-2017 estimates published by age band, gender and nation by the Office for National Statistics.

Northern Ireland - recent data are not available - please consult QOF data on next tab.

Source: NHS Digital (2018). Health Survey for England 2017, Adult Health Tables.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh.

Welsh Government (2016). Welsh Health Survey 2015. Knowledge and Analytical Services: Cardiff.

**Table 5.5 Prevalence of Diabetes by nation and region, United Kingdom 2017/18**

[Back to Table of Contents](#)

Nation/Region	Diabetes Register	
	Patients	Aged 17+ %
East Midlands	291,908	7.2
East of England	336,133	6.5
London	511,256	6.5
North East England	162,652	7.2
North West England	442,525	7.1
South East England	467,408	6.1
South West England	305,961	6.5
West Midlands	378,682	7.7
Yorkshire and The Humber	325,686	7.0
England	3,222,211	6.8
Scotland	281,304	n/a
Wales	194,693	7.4
Northern Ireland	96,114	6.2
UK	3,794,322	n/a

Notes:

England - Copyright © Health and Social Care Information Centre 2018.

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

For England, Wales and Northern Ireland, prevalence of diabetes is based on patient list for those aged 17 and over.

South East England includes 2015/16 data for Aylesbury Vale/Chiltern (now Buckinghamshire CCG) as they no longer contribute to QOF.

For Scotland, some practices are missing from the registers, so diagnosed numbers may be slightly higher (and this list is all for ages).

Source:

England - Health and Social Care Information Centre. QOF achievement data 2017/18

<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/2017-18>

Wales - StatsWales. QOF achievement data 2017/18

<http://gov.wales/statistics-and-research/general-medical-services-contract/?lang=en>

Scotland - ISD Scotland. QOF prevalence data 2017/18 obtained via personal communication

Northern Ireland - Department of Health, Social Services and Public Safety. QOF exception reporting data 2017/18,

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

**Table 5.6 Percentage of adults with raised cholesterol by age and gender, England and Scotland latest available**

[Back to Table of Contents](#)

Age in years	England 2017						Scotland 2008-2011					
	Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	14	440	17	510	16	950	22	66	25	110	23	180
25-34	44	1,700	29	1,100	36	2,700	47	170	43	200	45	370
35-44	63	2,200	40	1,400	52	3,700	70	230	59	230	64	460
45-54	63	2,400	69	2,700	66	5,100	69	260	74	290	71	550
55-64	58	1,800	76	2,500	67	4,300	59	200	76	260	68	460
65-74	40	1,100	63	1,800	52	2,900	50	140	54	220	52	360
75+	25	490	52	1,300	40	1,800	23	42	54	170	38	210
All Adults	46	10,000	50	11,000	48	21,000	52	1,100	56	1,500	54	2,600

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 estimates and totals are rounded to two significant figures and may not add up due to rounding.

All population figures are health survey results applied to mid-2017 estimates published by age band, gender and nation by the Office for National Statistics.

Scotland combined totals not published - raw average of male and female rates.

Source: NHS Digital (2018). Health Survey for England 2017, Adult Health Tables.

Scottish Health Surveys 2008 to 2011 (cholesterol measurement not included in more recent surveys).

**Table 5.7 Prevalence of overweight (including obese) in adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available**

[Back to Table of Contents](#)

Age in years	England 2017						Scotland 2017						Wales 2017/18						Northern Ireland 2017/18						UK Total					
	Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	33	990	42	1,200	37	2,200	33	100	38	110	36	210	37	68	29	49	33	117	46	50	30	30	37	80	33	1,200	41	1,400	37	2,600
25-34	58	2,200	56	2,100	57	4,300	54	200	55	200	55	400	66	130	49	95	58	225	71	88	45	57	56	140	58	2,600	55	2,500	56	5,100
35-44	72	2,600	59	2,200	65	4,800	73	240	66	230	70	470	70	120	53	95	62	215	78	90	62	76	68	160	75	3,100	61	2,600	68	5,700
45-54	78	3,000	67	2,800	72	5,800	82	310	71	290	76	600	75	160	62	140	69	300	76	97	66	88	70	180	78	3,600	70	3,300	74	6,900
55-64	78	2,600	67	2,200	73	4,800	79	270	72	260	75	530	74	140	63	130	69	270	83	90	70	78	76	170	81	3,100	68	2,700	74	5,800
65-74	78	2,100	73	2,100	75	4,200	83	230	73	220	78	450	70	120	61	110	66	230	81	65	64	56	71	120	79	2,500	72	2,500	76	5,000
75+	75	1,200	69	1,400	72	2,600	75	140	64	170	68	310	63	77	58	95	60	172	74	41	62	49	67	90	65	1,500	55	1,700	59	3,200
All Adults	67	15,000	62	14,000	64	29,000	67	1,500	63	1,500	65	3,000	66	820	54	710	60	1,500	73	520	57	430	64	950	67	18,000	61	17,000	64	35,000

Notes: Overweight = BMI 25 to less than 30kg/m2. Obese = BMI 30kg/m2 or more (includes morbidly obese). Wales uses self-reported data.

All estimates and totals are rounded to two significant figures and may not add up due to rounding. UK percentages are weighted averages of all four nations.

All population figures are health survey results applied to mid-2017 estimates published by age band, gender and nation by the Office for National Statistics.

Source: NHS Digital (2018). Health Survey for England 2017.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2017-18

Northern Ireland Statistics and Research Agency (2018). Health Survey Northern Ireland 2017/18.

**Table 5.8 Prevalence of obesity in adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available**

[Back to Table of Contents](#)

Age in years	England 2017						Scotland 2017						Wales 2017/18						Northern Ireland 2017/18						UK Total					
	Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	11	320	20	610	15	920	11	34	16	48	14	82	9	16	13	22	11	38	6	6	12	12	9	19	10	380	20	690	15	1,100
25-34	20	740	27	1,000	23	1,700	18	65	24	90	21	150	20	40	25	48	22	87	26	32	17	22	21	52	20	880	26	1,200	23	2,000
35-44	29	1,100	28	1,000	29	2,100	25	80	36	120	31	200	20	34	22	40	21	74	29	34	28	35	29	68	29	1,200	30	1,200	29	2,400
45-54	36	1,400	37	1,500	36	2,900	36	140	34	140	35	280	28	60	28	62	28	120	31	39	33	43	32	83	36	1,700	38	1,700	37	3,400
55-64	36	1,200	32	1,100	34	2,300	36	120	36	130	36	250	28	54	23	47	26	100	38	41	34	38	36	79	36	1,400	33	1,300	34	2,700
65-74	32	860	33	950	33	1,800	37	100	37	110	37	210	26	45	26	48	26	93	32	26	32	28	32	53	33	1,000	33	1,100	33	2,200
75+	29	480	32	630	31	1,100	34	61	24	63	28	120	18	22	19	32	19	54	22	12	32	25	28	37	25	580	24	750	25	1,300
All Adults	27	6,100	30	6,800	29	13,000	27	600	30	700	29	1,300	22	270	23	300	22	570	26	190	27	200	27	390	27	7,100	29	7,900	28	15,000

Notes: Obese = BMI 30kg/m2 or more (includes morbidly obese). Wales uses self-reported data.

All estimates and totals are rounded to two significant figures and may not add up due to rounding. UK percentages are weighted averages of all four nations.

All population figures are health survey results applied to mid-2017 estimates published by age band, gender and nation by the Office for National Statistics.

Source: NHS Digital (2018). Health Survey for England 2017.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2017-18

Northern Ireland Statistics and Research Agency (2018). Health Survey Northern Ireland 2017/18.

**Table 5.9 Percentage of adults NOT meeting physical activity recommendations by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available**

[Back to Table of Contents](#)

Age	England 2016						Scotland 2017						Wales 2017/18						Age	Northern Ireland 2016/17						UK estimated population					
	Men		Women		All		Men		Women		All		Men		Women		All			Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	
16-24	25	780	36	1,100	31	1,800	11	33	33	95	22	130	34	63	35	59	35	120	19-24	23	16	40	27	33	46						
25-34	22	840	34	1,300	28	2,100	17	63	30	110	24	180	32	62	45	88	38	150	25-34	34	42	32	41	33	82						
35-44	28	1,000	33	1,200	31	2,200	19	61	26	90	23	150	39	68	47	83	43	150	35-44	25	29	33	41	30	72						
45-54	32	1,200	38	1,500	35	2,700	29	110	35	140	32	250	44	93	51	110	48	210	45-54	32	41	42	55	38	99						
55-64	41	1,300	45	1,500	43	2,800	36	130	43	160	40	280	46	89	57	120	52	210	55-64	51	55	55	61	53	120						
65-74	43	1,100	46	1,300	45	2,500	45	120	50	150	47	270	50	86	53	97	51	180	65-74	51	41	65	57	59	100						
75+	64	1,200	75	1,900	70	3,200	64	120	78	210	72	320	67	82	73	120	71	200	75+	86	48	92	73	90	120						
All Adults	34	7,400	42	9,800	38	17,000	29	640	40	950	35	1,600	43	540	51	680	47	1,200	Total	39	270	49	360	45	640	34	8,900	43	12,000	38	21,000

Notes: Guidelines are for at least 150 minutes moderate or 75 minutes vigorous activity per week or an equivalent combination.

All estimates and totals are rounded to two significant figures and may not add up due to rounding. UK percentages are weighted averages of all four nations.

All population figures are health survey results applied to mid-2017 estimates published by age band, gender and nation by the Office for National Statistics.

Source: NHS Digital (2017). Health Survey for England 2016, Physical Activity in Adults Tables.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2017-18

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



**Table 5.10 Prevalence of cigarette smoking among adults by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available**

[Back to Table of Contents](#)

Age in years	England 2017						Scotland 2017						Wales 2017/18						Northern Ireland 2017/18						UK estimated population					
	Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	17	500	21	590	19	1,100	18	53	16	46	17	99	24	44	21	35	22	78	18	19	13	13	15	32	17	620	19	680	18	1,300
25-34	26	990	17	660	22	1,700	28	102	19	72	24	170	30	58	24	47	27	110	27	33	23	29	24	61	26	1,200	18	810	22	2,000
35-44	24	860	16	590	20	1,400	25	82	17	57	21	140	25	44	14	25	20	70	25	29	18	22	21	50	24	1,000	16	690	20	1,700
45-54	24	920	20	790	22	1,700	22	85	15	63	19	150	25	52	22	49	23	100	18	24	22	30	21	55	24	1,100	20	930	22	2,000
55-64	16	520	15	500	16	1,000	20	70	22	78	21	150	17	32	16	32	16	64	19	21	21	24	20	45	17	640	16	630	16	1,300
65-74	12	330	10	290	11	620	14	37	14	42	14	79	14	24	15	27	14	51	13	11	14	12	14	23	13	400	11	370	12	780
75+	4	82	5	120	5	200	8	14	5	14	6	28	8	10	7	11	7	21	8	4	6	5	7	9	5	110	5	150	5	260
All Adults	19	4,200	15	3,500	17	7,700	20	440	16	370	18	820	21	260	17	230	19	490	20	140	18	140	18	280	19	5,100	16	4,300	17	9,300

Notes: Aged 16+ years, Respondents were asked if they smoke cigarettes. Current cigarette smokers exclude those who reported smoking only cigars or pipes.

All estimates and totals are rounded to two significant figures and may not add up due to rounding. UK percentages are weighted averages of all four nations.

All population figures are health survey results applied to mid-2017 estimates published by age band, gender and nation by the Office for National Statistics.

Source: NHS Digital (2018). Health Survey for England 2017, Adult behaviours and risks.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2017-18

Northern Ireland Statistics and Research Agency (2018). Health Survey Northern Ireland 2017/18.

**Table 5.11 Percentage of adults exceeding weekly alcohol consumption guidelines by age and gender, England, Scotland, Northern Ireland and UK, latest available**

[Back to Table of Contents](#)

Age	England 2017			Scotland 2017			Wales 2017/18			Age	Northern Ireland 2017/18			UK Total		
	Male %	Female %	All %	Male %	Female %	All %	Men %	Women %	All %		Male %	Female %	All %	Male %	Female %	All %
16-24	20	13	16	35	18	27	17	12	14	18-24	38	16	26			
25-34	27	12	20	31	9	20	16	8	12	25-34	33	9	19			
35-44	26	13	19	24	15	20	26	15	20	35-44	34	9	18			
45-54	31	18	24	37	20	28	29	13	21	45-54	32	10	19			
55-64	36	20	28	39	24	31	32	14	23	55-64	33	8	18			
65-74	32	14	23	36	14	24	31	13	22	65-74	27	9	16			
75+	25	7	15	23	5	12	18	7	12	75+	12	3	6			
All Adults	28	14	21	33	16	24	25	12	18	Total	31	9	18	29	14	21

Notes: Weekly limits are 14 units in men and women. In January 2016 the Chief Medical Officers of the United Kingdom revised their recommendations for men from 21 units.

UK percentages are weighted averages based on all four nations.

Source: NHS Digital (2018). Health Survey for England 2017, Adult behaviours and risks.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh.

National Survey for Wales - Population health: health-related lifestyle (adults), 2017-18

Northern Ireland Statistics and Research Agency (2018). Health Survey Northern Ireland 2017/18.

**Table 5.12 Percentage of adults NOT meeting 5-a-day fruit and vegetable recommendations by age and gender, England, Scotland, Wales, Northern Ireland and UK, latest available**

[Back to Table of Contents](#)

Age in years	England 2017			Scotland 2017			Wales 2017/18			N Ireland 2017/18			UK Total		
	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %
16-24	78	77	77	77	77	77	78	82	80	70	60	64			
25-34	78	67	73	81	72	76	78	76	77	71	59	64			
35-44	71	64	68	76	73	75	75	71	73	67	54	59			
45-54	75	70	73	78	72	75	80	69	75	66	51	57			
55-64	73	64	68	80	73	76	78	73	75	65	59	62			
65-74	68	66	67	74	77	76	75	75	75	64	61	63			
75+	70	73	71	82	77	79	81	86	84	74	67	69			
All Adults	74	68	71	78	74	76	78	75	77	68	58	62	74	69	72

Notes: Recommendation is at least 5 portions of different types of fruit or vegetable. A portion is typically 80 grams.

UK percentages are weighted averages based on all four nations.

Source: NHS Digital (2018). Health Survey for England 2017.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh

National Survey for Wales - Population health: health-related lifestyle (adults), 2017-18

Northern Ireland Statistics and Research Agency (2018). Health Survey Northern Ireland 2017/18.

**Table 5.13 Average number of portions of fruit and vegetables consumed per day by adults by age and gender, England, Scotland, Wales and Northern Ireland, latest available**

[Back to Table of Contents](#)

England 2017				Scotland 2017			Wales 2009 to 2013				Northern Ireland 2008 to 2012		
	Men	Women	All	Men	Women	All		Men	Women	All	Men	Women	All
Age in years	Mean Portions			Mean Portions			Age in years	Mean Portions			Mean Portions		
16-24	3.3	3.3	3.3	3.2	3.2	3.2	19-64	3.8	3.7	3.8	3.2	3.6	3.4
25-34	3.3	4.0	3.7	3.1	3.5	3.3	65+	3.8	3.8	3.8	x	x	3.8
35-44	3.8	4.2	4.0	3.3	3.7	3.5							
45-54	3.6	3.9	3.7	3.2	3.6	3.4							
55-64	3.7	4.1	3.9	3.1	3.6	3.4							
65-74	4.0	4.2	4.1	3.4	3.4	3.4							
75+	3.8	3.8	3.8	3.1	3.4	3.3							
All Adults	3.6	3.9	3.8	3.2	3.5	3.3							

Notes: Recommendation is at least 5 portions of different types or fruit or vegetable. A portion is typically 80 grams.

All population figures are health survey results applied to mid-2017 estimates published by age band, gender and nation by the Office for National Statistics.

x = base size too small to calculate.

Source: NHS Digital (2018). Health Survey for England 2017.

The Scottish Government (2018). The Scottish Health Survey 2017. The Scottish Government: Edinburgh.

Food Standards Agency, Welsh Government, Public Health England. National Diet and Nutrition Survey Rolling Programme (NDNS RP): results from Years 2-5 (combined) for Wales (2009/10-2012/2013).

Food standards Agency, Public Health England. National Diet and Nutrition Survey Rolling Programme (NDNS RP): results from Years 1- 4 (combined) for Northern Ireland (2008/09-2011/12).

**Table 5.14 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, global, 2017**

[Back to Table of Contents](#)

Reset to Published Order	RISK FACTOR (% attributable)	2017 estimated burden - GLOBAL DEATHS			2017 estimated burden - GLOBAL DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	<b>All modifiable risk factors</b>	<b>85.9%</b>	<b>93.8%</b>	<b>85.1%</b>	<b>85.8%</b>	<b>95.0%</b>	<b>88.1%</b>
	High systolic blood pressure (hypertension)	54.6%	54.7%	54.5%	54.8%	55.7%	57.1%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	53.4%	69.7%	47.4%	56.6%	74.0%	55.8%
	High LDL (bad) cholesterol	24.3%	42.4%	8.6%	25.9%	48.3%	9.6%
	High fasting plasma glucose (diabetes)	20.0%	25.4%	20.6%	18.3%	23.4%	20.3%
	High body-mass index (obesity)	17.3%	18.2%	17.3%	22.1%	23.1%	25.3%
	Tobacco (cigarette smoking, second hand smoke)	17.2%	21.6%	17.0%	21.2%	27.8%	21.1%
	Air pollution (particulate matter)	11.6%	15.5%	11.0%	13.2%	18.8%	12.4%
	Impaired kidney function (renal failure)	7.6%	9.9%	7.6%	6.9%	8.7%	7.7%
	Low physical activity (inactivity, sedentary behaviour)	6.7%	10.0%	4.8%	5.7%	9.1%	4.1%
	Other environmental risks (e.g. lead exposure)	5.6%	5.5%	6.0%	5.6%	5.6%	6.2%
	Alcohol use	3.9%	-1.3%	9.1%	5.7%	0.2%	10.7%
	<i>Other risk factors/unknown</i>	<i>14.1%</i>	<i>6.2%</i>	<i>14.9%</i>	<i>14.2%</i>	<i>5.0%</i>	<i>11.9%</i>

Notes

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

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

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

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

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

Source:

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

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