



British Heart
Foundation

Heart and Circulatory Disease Statistics 2024

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

Original Excel spreadsheets can be found at
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Chapter One - Mortality

MORTALITY BY CAUSE

- 1.1 Deaths by cause, by sex and age, United Kingdom 2022
- 1.2 Deaths by cause, all ages and under 75s by sex, England, Wales, Scotland and Northern Ireland 2022

TRENDS IN MORTALITY

- 1.3 Age-standardised death rates from all heart and circulatory diseases, all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.4 Age-standardised death rates from all heart and circulatory diseases, under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.5 Age-standardised death rates from coronary heart disease (CHD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.6 Age-standardised death rates from coronary heart disease (CHD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.7 Age-standardised death rates from stroke (CBVD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.8 Age-standardised death rates from stroke (CBVD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.9 Number of deaths from all heart and circulatory diseases, all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.10 Number of deaths from all heart and circulatory diseases, under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.11 Number of deaths from coronary heart disease (CHD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.12 Number of deaths from coronary heart disease (CHD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.13 Number of deaths from stroke (CBVD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- 1.14 Number of deaths from stroke (CBVD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022

EXCESS WINTER MORTALITY

- 1.15 Excess winter mortality for CVD and CHD by sex and age, England 2010/2011 to 2021/22
- 1.16 Excess winter mortality for CVD and CHD by sex and age, Wales 2010/2011 to 2021/22
- 1.17 Excess winter mortality for CVD and CHD by sex and age, Scotland 2013/14 to 2022/23
- 1.18 Excess winter mortality for CVD by sex and age, Northern Ireland 2013/14 to 2022/23

MORTALITY BY NATION & REGION

- 1.19 Numbers of deaths and age-standardised death rates from all heart and circulatory diseases in men and women, all ages by region and nation, United Kingdom 2020/22
- 1.20 Numbers of deaths and age-standardised death rates from all heart and circulatory diseases in men and women, under 75, by region and nation, United Kingdom 2020/22
- 1.21 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 2020/22
- 1.22 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 2020/22
- 1.23 Numbers of deaths and age-standardised death rates from stroke (CBVD) in men and women, all ages, by region and nation, United Kingdom 2020/22
- 1.24 Numbers of deaths and age-standardised death rates from stroke (CBVD) in men and women, under 75, by region and nation, United Kingdom 2020/22

MORTALITY BY LOCAL AUTHORITY

- 1.25 Heart & circulatory disease (CVD) mortality rates and number of deaths, all ages by local authority, United Kingdom 2020/22
- 1.26 Heart & circulatory disease (CVD) mortality rates and number of deaths, under 75 by local authority, United Kingdom 2020/22
- 1.27 Coronary heart disease (CHD) mortality rates and number of deaths, by local authority, United Kingdom 2020/22
- 1.28 Coronary heart disease (CHD) mortality rates and number of deaths, under 75 by local authority, United Kingdom 2020/22
- 1.29 Stroke (CBVD) mortality rates and number of deaths, all ages by local authority, United Kingdom 2020/22

MORTALITY, DEPRIVATION, INEQUALITIES & ETHNICITY

- 1.30 Mortality rates from all circulatory diseases by sex and deprivation decile, all ages and under 75, England 2020/22
- 1.31 Mortality rates denoting chronic heart disease (CHD) as contributing factor by age, sex, ethnicity, socioeconomic classification and deprivation, England 2021/23
 - > a Deaths involving chronic ischaemic heart disease by sex and index of multiple deprivation decile, England 2021/23
 - > b Deaths involving chronic ischaemic heart disease by ethnicity and index of multiple deprivation quantile, England 2021/23

- > c Deaths involving chronic ischaemic heart disease by sex and socioeconomic classification, England 2021/23
- > d Deaths involving chronic ischaemic heart disease by age, sex, and index of multiple deprivation decile, England 2021/23
- 1.32 Mortality rates denoting stroke (CBVD) as contributing factor by age, sex, ethnicity, socioeconomic classification and deprivation, England 2021/23
- > a Deaths involving stroke disease by sex and index of multiple deprivation decile, England 2021/23
- > b Deaths involving stroke by ethnicity and index of multiple deprivation quintile, England 2021/23
- > c Deaths involving stroke by sex and socioeconomic classification, England 2021/23
- > d Deaths involving stroke by age, sex, and index of multiple deprivation decile, England 2021/23
- 1.33 Mortality rates for coronary heart disease and stroke as contributing factor by sex and ethnicity, England and Wales 2017-19

GLOBAL MORTALITY

- 1.34 Deaths and mortality rates for heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2021
- 1.35 Years of life lost (YLLs) and disability-adjusted life years (DALYs) for heart and circulatory disease (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2021

Chapter Two - Morbidity

INCIDENCE - HOSPITAL ADMISSIONS

- 2.1 Inpatient admissions by main diagnosis in NHS hospitals, by sex, England, Scotland, Wales, Northern Ireland and United Kingdom 2022/23
- 2.2a All inpatient admissions by main diagnosis, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2022/23
- 2.2b Inpatient admissions by main diagnosis for men, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2022/23
- 2.2c Inpatient admissions by main diagnosis for women, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2022/23

INCIDENCE - HOSPITAL EPISODES (FCEs)

- 2.3 Inpatient episodes by main diagnosis in NHS hospitals, by sex, England, Scotland, Wales, Northern Ireland and United Kingdom 2022/23
- 2.4a All inpatient episodes by main diagnosis, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 to 2022/23
- 2.4b Inpatient episodes by main diagnosis for men, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 to 2022/23
- 2.4c Inpatient episodes by main diagnosis for women, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 to 2022/23
- 2.5 Inpatient episodes for cardiovascular diagnoses by sex and age, England 2022/23
- 2.6 Hospital discharges by cardiovascular condition by sex and age, Scotland 2013/14 to 2022/23
- 2.7 Inpatient episodes for cardiovascular diagnoses by sex and age, Wales 2022/23
- 2.8 Inpatient episodes for cardiovascular diagnoses by sex and age, Northern Ireland 2022/23

GLOBAL INCIDENCE

- 2.9 Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) by UK nation and English region, 2021
- 2.10 Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations 2021

PREVALENCE - GP Patient Registers

- 2.11 Prevalence of selected cardiovascular conditions by UK nation and English region, United Kingdom - latest available
- 2.12 Prevalence of cardiovascular conditions from GP patient registers, UK 2006/07 to 2022/23
- 2.13 Prevalence of cardiovascular conditions from GP patient registers, England 2004/05 to 2022/23
- 2.14 Prevalence of selected cardiovascular conditions from CVDPREVENT, unadjusted percentages and age-standardised by deprivation quintile, England, Mar 2024
- 2.15 Prevalence of selected cardiovascular conditions from CVDPREVENT, unadjusted percentages by sex and age, plus age-standardised by gender, England, Mar 2024
- 2.16 Prevalence of cardiovascular conditions from GP patient registers, diagnosed percentages by deprivation decile, England, latest
- 2.17 Prevalence of cardiovascular conditions from GP patient registers, Scotland 2008/09 to 2022/23
- 2.18 Prevalence of cardiovascular conditions from GP patient registers, Wales 2006/07 to 2021/22
- 2.19 Prevalence of cardiovascular conditions from GP patient registers, by age, Wales 2021/22

- 2.20 Prevalence of cardiovascular conditions from GP patient registers, Northern Ireland 2004/05 to 2023/24
- 2.21 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

PREVALENCE - Health Surveys

- 2.22 Prevalence of cardiovascular conditions from national health survey by sex, England 2003 to 2017
- 2.23 Prevalence of cardiovascular conditions from national health survey by age, England 2003 to 2017
- 2.24 Prevalence of cardiovascular conditions by local authority, GP survey data, England 2021
- 2.25 Prevalence of cardiovascular conditions from national health survey by equivalised household income and sex, England 2017
- 2.26 Prevalence of cardiovascular conditions from national health survey by sex, Scotland 2003 to 2022
- 2.27 Prevalence of cardiovascular conditions from national health survey by age, Scotland 2003 to 2022
- 2.28 Prevalence of cardiovascular conditions from national health survey by equivalised household income and sex, Scotland 2022
- 2.29 Prevalence of selected cardiovascular conditions from national health survey by deprivation quintile and sex, Scotland 2022
- 2.30 Prevalence of any cardiovascular condition from national health survey by deprivation quintile and sex, Scotland 2003 to 2022
- 2.31 Prevalence of heart and circulatory complaints from national survey by sex and age, Wales 2016/17 to 2022/23
- 2.32 Prevalence of heart and circulatory complaints from national survey by deprivation quintile, Wales 2016/17 to 2022/23

CONGENITAL HEART DISEASE

- 2.33 Prevalence of congenital heart disease, diagnoses in babies, England 2021

GLOBAL PREVALENCE

- 2.34 Prevalence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) by UK nation and English region, 2021
- 2.35 Prevalence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations 2021

Chapter Three - Treatment

PRESCRIPTIONS

- 3.1 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), England - 1981 to 2023
- 3.2 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Wales - 2004/05 to 2022/23
- 3.3 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Scotland - 2001/02 to 2022/23
- 3.4 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Northern Ireland - 2000 to 2023
- 3.5 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), UK - latest available

OPERATIONS

- 3.6 Number of CABGs and PCIs, UK - 1977 to 2022/23
- 3.7 Number and rate of PCIs and CABGs, Scotland, by sex - 2008/09 to 2022/23
- 3.8 Number of valve replacements and repairs, UK - 2002/03 to 2022/23
- 3.9 Number of rate of valve surgery procedures, Scotland - 2013/14 to 2022/23

TRANSPLANTS

- 3.10 Cardiothoracic transplant list, UK - 2023/24
- 3.11 Cardiothoracic transplants by UK nation - 2010/11 to 2023/24

IMPLANTS

- 3.12 New Pacemaker implants and rate per million population, by UK nation - 2010/11 to 2022/23

OUT-OF-HOSPITAL CARDIAC ARRESTS

- 3.13 Out-of-hospital cardiac arrest (OHCA) overall survival rates, by Ambulance Service, England - 2011/12 to 2022/23; 2011 to 2022
- 3.14 Out-of-hospital cardiac arrest (OHCA) Utstein cohort survival rates, by Ambulance Service, England - 2011/12 to 2022/23; 2011 to 2022
- 3.15 Out-of-hospital cardiac arrest (OHCA) survival rates, Scotland - 2011/12 to 2022/23

Chapter Four - Costs

- 4.1 Economic and healthcare costs of heart and circulatory disease (CVD), UK - 2019/20 to 2021/22
- 4.2 Economic and healthcare costs of heart and circulatory disease (CVD), England - 2019/20 to 2021/22
- 4.3 Economic and healthcare costs of heart and circulatory disease (CVD), Scotland - 2019/20 to 2021/22
- 4.4 Economic and healthcare costs of heart and circulatory disease (CVD), Wales - 2019/20 to 2021/22
- 4.5 NHS expenditure on CVD by Health Board, Wales - 2021/22 & 2022/23
- 4.6 Economic and healthcare costs of heart and circulatory disease (CVD), Northern Ireland - 2019/20 to 2021/22

Chapter Five - Risk Factors

IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES IN UK

- 5.1 Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, UK, 2011, 2016, 2021
- 5.2 Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, England, 2021
- 5.3 Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, Scotland, 2021
- 5.4 Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, Wales, 2021
- 5.5 Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, Northern Ireland, 2021

HIGH BLOOD PRESSURE (HYPERTENSION) IN ADULTS

- 5.6 Prevalence of high blood pressure in adults by age and sex, England and Scotland, latest
- 5.7 Prevalence of untreated high blood pressure in adults by age and sex, England and Scotland, latest
- 5.8 Prevalence of high blood pressure, by deprivation quintile, England 2021
- 5.9 Prevalence of diagnosed high blood pressure by nation and region, United Kingdom, latest available
- 5.10 Prevalence of high blood pressure from CVDPREVENT, unadjusted percentages and age-standardised by deprivation quintile, England, Mar 2024
- 5.11 Prevalence of high blood pressure from CVDPREVENT, unadjusted percentages by sex and age, plus age-standardised by gender, England, Mar 2024
- 5.12 Prevalence of high blood pressure from GP patient registers, diagnosed percentages by deprivation decile, England, latest available
- 5.13 Prevalence of high blood pressure from GP patient registers, by sex and age, Wales 2021/22

DIABETES IN ADULTS

- 5.14 Prevalence of doctor-diagnosed diabetes in adults by age and sex, England and Scotland, latest
- 5.15 Prevalence of diagnosed diabetes by nation and region, UK, latest
- 5.16 Prevalence of diabetes from GP patient registers, diagnosed percentages by deprivation decile, England 2022/23
- 5.17 Prevalence of diabetes (diagnosed and undiagnosed) from health surveys by deprivation, England
- 5.18 Prevalence of diabetes (current and lifetime) from health survey by deprivation quintile, Scotland 2022

CHOLESTEROL LEVEL IN ADULTS

- 5.19 Percentage of adults with raised cholesterol by age and sex, England, 2019

CHRONIC KIDNEY DISEASE IN ADULTS

- 5.20 Prevalence of chronic kidney disease (CKD) by nation and region, latest

- 5.21 Prevalence of chronic kidney disease (CKD) from GP patient registers, diagnosed percentages by deprivation decile, England, 2022/23
- 5.22 Prevalence of chronic kidney disease (CKD) from CVDPREVENT, unadjusted percentages and age-standardised by deprivation quintile, England, Mar 2024
- 5.23 Prevalence of chronic kidney disease (CKD) from CVDPREVENT, unadjusted percentages by sex and age, plus age-standardised by sex, England, Mar 2024

OVERWEIGHT AND OBESITY IN ADULTS

- 5.24 Prevalence of overweight (including obese) in adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest
- 5.25 Prevalence of obesity in adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest
- 5.26 Prevalence of obesity in adults by deprivation quintile, England, Scotland, Wales, Northern Ireland, latest

OVERWEIGHT AND OBESITY IN CHILDREN

- 5.27 Prevalence of overweight and obesity in children by age and sex, England, Scotland and Northern Ireland; UK health survey estimate, latest
- 5.28 Prevalence of overweight and obesity in children, England, Scotland and Wales, child measurement programme, latest

PHYSICAL INACTIVITY IN ADULTS

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

SMOKING IN ADULTS

- 5.30 Prevalence of cigarette smoking among adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest
- 5.31 Prevalence of cigarette smoking among adults by deprivation quintile, England, Scotland, Wales, Northern Ireland, latest

ALCOHOL CONSUMPTION IN ADULTS

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

FRUIT AND VEGETABLE CONSUMPTION IN ADULTS

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

AIR POLLUTION LEVELS IN UK

- 5.34 Levels of air pollution (fine particulate matter; PM2.5) by nation and region, United Kingdom 2019 to 2022

GLOBAL IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES

- 5.35 Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors - global estimates, 2021

GLOSSARY

Definitions for terms used in this compendium

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

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

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

Atherosclerosis - a build-up of fatty deposits inside the walls of the arteries - commonly referred to as a hardening or narrowing of the arteries.

Atrial fibrillation (AF) - one of the most common forms of abnormal heart rhythm (arrhythmia or dysrhythmia) - it causes your heart to beat irregularly and often too fast.

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.

Chronic kidney disease (CKD) - a long-term condition where the kidneys do not work as well as they should. CKD can get worse over time and eventually the kidneys may stop working altogether, but this is uncommon. People with CKD have a higher risk of developing heart and circulatory diseases, including heart attacks or strokes.

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).

Deprivation - the consequence of a lack of income and other resources, which cumulatively can be seen as living in poverty - see also IMD

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

Diastolic pressure - the amount of pressure in your arteries when your heart relaxes 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 consider both premature death and health-related suffering (disability) to portray the total years of healthy life lost to a disease or condition. Features in the Global Burden of Disease (GBD), a detailed analysis of international health that models the burden of diseases and their risk factors.

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

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

Heart attack - also referred to as myocardial infarction (MI) - a condition where the heart muscle is starved of oxygen, most commonly caused by a blockage of one or more 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 present with 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 symptoms, 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.

Index of Multiple Deprivation (IMD) - a relative measure of deprivation to classify geographic areas within each UK nation. IMD scores are based on a mix of component indicators (socioeconomic, health and environmental). These scores can then be compared with data from surveys or other analyses - typically split into five (quintiles) or ten (deciles) equal-size groupings from highest to lowest IMD score - to see if differences or inequalities exist.

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 a person becomes unconscious, stops breathing and 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 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 restricts 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.

Renal failure - see chronic kidney disease.

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 against your arteries when your heart is pumping blood around your body

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

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

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

ABOUT BRITISH HEART FOUNDATION

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

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

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

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27 Aug 2024 - errors corrected in NI data in tables 1.26 and 1.29 ** 16 Oct 2024 4N/UK ASDRs revised in table 1.19

Heart and Circulatory Disease Statistics 2023 - Chapter 1 - Mortality

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

MORTALITY BY CAUSE

- [1.1](#) Deaths by cause, by sex and age, United Kingdom 2022
- [1.2](#) Deaths by cause, all ages and under 75s by sex, England, Wales, Scotland and Northern Ireland 2022

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- [1.4](#) Age-standardised death rates from all heart and circulatory diseases, under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.5](#) Age-standardised death rates from coronary heart disease (CHD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.6](#) Age-standardised death rates from coronary heart disease (CHD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.7](#) Age-standardised death rates from stroke (CBVD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.8](#) Age-standardised death rates from stroke (CBVD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.9](#) Number of deaths from all heart and circulatory diseases, all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.10](#) Number of deaths from all heart and circulatory diseases, under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.11](#) Number of deaths from coronary heart disease (CHD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.12](#) Number of deaths from coronary heart disease (CHD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.13](#) Number of deaths from stroke (CBVD), all ages, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022
- [1.14](#) Number of deaths from stroke (CBVD), under 75, England, Wales, Scotland, Northern Ireland and United Kingdom 2001 to 2022

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- [1.16](#) Excess winter mortality for CVD and CHD by sex and age, Wales 2010/2011 to 2021/22
- [1.17](#) Excess winter mortality for CVD and CHD by sex and age, Scotland 2013/14 to 2022/23
- [1.18](#) Excess winter mortality for CVD by sex and age, Northern Ireland 2013/14 to 2022/23

MORTALITY BY NATION & REGION

- [1.19](#) Numbers of deaths and age-standardised death rates from all heart and circulatory diseases in men and women, all ages by region and nation, United Kingdom 2020/22
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- [1.22](#) 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 2020/22
- [1.23](#) Numbers of deaths and age-standardised death rates from stroke (CBVD) in men and women, all ages, by region and nation, United Kingdom 2020/22
- [1.24](#) Numbers of deaths and age-standardised death rates from stroke (CBVD) in men and women, under 75, by region and nation, United Kingdom 2020/22

MORTALITY BY LOCAL AUTHORITY

- [1.25](#) Heart & circulatory disease (CVD) mortality rates and number of deaths, all ages by local authority, United Kingdom 2020/22
- [1.26](#) Heart & circulatory disease (CVD) mortality rates and number of deaths, under 75 by local authority, United Kingdom 2020/22
- [1.27](#) Coronary heart disease (CHD) mortality rates and number of deaths, by local authority, United Kingdom 2020/22
- [1.28](#) Coronary heart disease (CHD) mortality rates and number of deaths, under 75 by local authority, United Kingdom 2020/22
- [1.29](#) Stroke (CBVD) mortality rates and number of deaths, all ages by local authority, United Kingdom 2020/22

MORTALITY, DEPRIVATION, INEQUALITIES & ETHNICITY

- [1.30](#) Mortality rates from all circulatory diseases by sex and deprivation decile, all ages and under 75, England 2020/22
- [1.31](#) Mortality rates denoting chronic heart disease (CHD) as contributing factor by age, sex, ethnicity, socioeconomic classification and deprivation, England 2021/23
 - > a Deaths involving chronic ischaemic heart disease by sex and index of multiple deprivation decile, England 2021/23
 - > b Deaths involving chronic ischaemic heart disease by ethnicity and index of multiple deprivation quantile, England 2021/23
 - > c Deaths involving chronic ischaemic heart disease by sex and socioeconomic classification, England 2021/23
 - > d Deaths involving chronic ischaemic heart disease by age, sex, and index of multiple deprivation decile, England 2021/23
- [1.32](#) Mortality rates denoting stroke (CBVD) as contributing factor by age, sex, ethnicity, socioeconomic classification and deprivation, England 2021/23
 - > a Deaths involving stroke disease by sex and index of multiple deprivation decile, England 2021/23
 - > b Deaths involving stroke by ethnicity and index of multiple deprivation quintile, England 2021/23
 - > c Deaths involving stroke by sex and socioeconomic classification, England 2021/23
 - > d Deaths involving stroke by age, sex, and index of multiple deprivation decile, England 2021/23
- [1.33](#) Mortality rates for coronary heart disease and stroke as contributing factor by sex and ethnicity, England and Wales 2017-19

GLOBAL MORTALITY

- [1.34](#) Deaths and mortality rates for heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2021
- [1.35](#) Years of life lost (YLLs) and disability-adjusted life years (DALYs) for heart and circulatory disease (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2021

Table 1.1 Deaths by cause, by sex and age, United Kingdom 2022

[Back to Table of Contents](#)

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		All ages	Under 35	35-44	45-54	55-64	65-74	75-84	85+
All causes	MEN	331,895	7,313	6,806	15,544	33,009	61,880	102,718	104,625
	WOMEN	325,365	4,127	4,296	10,140	22,332	44,491	89,526	150,453
	Total	657,260	11,440	11,102	25,684	55,341	106,371	192,244	255,078
All heart and circulatory diseases (I00-I99, C38.0, F01, G45, P29, Q20-Q28)									
	MEN	92,713	573	1,252	4,213	9,708	17,285	29,241	30,441
	WOMEN	82,114	366	559	1,604	4,046	9,031	22,640	43,869
	Total	174,827	939	1,811	5,817	13,754	26,316	51,881	74,310
Diseases of the circulatory system (I00-I99)	MEN	86,829	464	1,227	4,170	9,640	16,893	27,224	27,211
	WOMEN	73,644	292	536	1,578	3,990	8,755	20,594	37,899
	Total	160,473	756	1,763	5,748	13,630	25,648	47,818	65,110
Chronic rheumatic heart diseases (I05-I09)	MEN	390	2	5	9	33	62	136	143
	WOMEN	737	5	9	26	31	96	269	301
	Total	1,127	7	14	35	64	158	405	444
Hypertensive diseases (I10-I15)	MEN	4,238	9	41	204	449	733	1,211	1,591
	WOMEN	5,489	3	20	66	210	449	1,218	3,523
	Total	9,727	12	61	270	659	1,182	2,429	5,114
Coronary heart disease (I20-I25)	MEN	44,103	123	588	2,499	6,051	10,005	13,795	11,042
	WOMEN	23,975	34	138	597	1,816	3,776	7,220	10,394
	Total	68,078	157	726	3,096	7,867	13,781	21,015	21,436
Myocardial infarction (I21-I22)	MEN	16,346	60	269	1,037	2,414	3,844	5,187	3,535
	WOMEN	9,238	19	66	253	710	1,587	3,045	3,558
	Total	25,584	79	335	1,290	3,124	5,431	8,232	7,093
Other heart diseases (I26-I52)	MEN	16,719	195	298	644	1,244	2,311	4,875	7,152
	WOMEN	18,931	148	148	341	698	1,556	4,511	11,529
	Total	35,650	343	446	985	1,942	3,867	9,386	18,681
Stroke (cerebrovascular disease; CBVD) (I60-I69)	MEN	15,060	71	174	481	1,143	2,486	5,021	5,684
	WOMEN	18,916	59	140	357	848	1,990	5,494	10,028
	Total	33,976	130	314	838	1,991	4,476	10,515	15,712
Diseases of arteries, arterioles and capillaries (I70-I79)	MEN	4,933	28	58	192	425	948	1,839	1,443
	WOMEN	4,045	11	21	55	176	565	1,459	1,758
	Total	8,978	39	79	247	601	1,513	3,298	3,201
Diseases of veins, lymphatic vessels and lymph nodes* (I80-I89)	MEN	1,374	36	63	141	295	347	341	151
	WOMEN	1,538	32	60	136	211	323	417	359
	Total	2,912	68	123	277	506	670	758	510
Malignant neoplasm: Heart (C38.0)	MEN	12	1	2	1	1	3	2	2
	WOMEN	10	2	2	1	1	1	3	-
	Total	22	3	4	2	2	4	5	2
Vascular dementia (F01)	MEN	5,573	-	-	3	30	356	1,977	3,207
	WOMEN	8,206	-	-	2	25	246	2,015	5,918
	Total	13,779	-	-	5	55	602	3,992	9,125
Transient cerebral ischaemic attacks and related syndromes (G45)	MEN	19	-	-	-	1	-	5	13
	WOMEN	32	-	-	-	-	1	-	31
	Total	51	-	-	-	1	1	5	44
Cardiovascular disorders originating in the perinatal period (P29)	MEN	3	3	-	-	-	-	-	-
	WOMEN	4	4	-	-	-	-	-	-
	Total	7	7	-	-	-	-	-	-
Congenital malformations of the circulatory system # (Q20-Q28)	MEN	277	105	23	39	36	33	33	8
	WOMEN	218	68	21	23	30	28	28	21
	Total	495	173	44	62	66	61	61	29
Cancer (C00-D48)									
	MEN	92,760	637	1,015	3,573	11,414	23,536	32,093	20,492
	WOMEN	81,543	586	1,421	4,088	10,155	18,700	26,633	19,960
	Total	174,303	1,223	2,436	7,661	21,569	42,236	58,726	40,452
Lung cancer (C33,C34)	MEN	17,348	14	88	582	2,361	5,315	6,355	2,633
	WOMEN	16,160	9	81	476	2,075	4,810	5,908	2,801
	Total	33,508	23	169	1,058	4,436	10,125	12,263	5,434
Breast cancer (C50)	MEN	75	-	-	2	11	19	24	19
	WOMEN	11,197	82	419	1,100	1,785	2,103	2,901	2,807
	Total	11,272	82	419	1,102	1,796	2,122	2,925	2,826
Respiratory disease (excl COVID-19) (J00-J99)	MEN	36,299	151	172	782	2,438	6,719	12,543	13,494
	WOMEN	35,708	129	145	602	2,012	5,509	11,129	16,182
	Total	72,007	280	317	1,384	4,450	12,228	23,672	29,676
Lower respiratory disease (J40 - J47)	MEN	16,592	35	48	381	1,376	3,995	6,379	4,378
	WOMEN	16,796	29	50	299	1,236	3,659	6,425	5,098
	Total	33,388	64	98	680	2,612	7,654	12,804	9,476
[other] Diabetes (E10-E14)	MEN	5,014	66	107	244	496	890	1,509	1,702
	WOMEN	4,433	46	66	114	261	537	1,211	2,198
	Total	9,447	112	173	358	757	1,427	2,720	3,900
[other] Unspecified dementia/Alzheimer's (F03, G30)	MEN	20,541	-	3	6	129	1,214	6,603	12,586
	WOMEN	39,941	-	1	9	187	1,400	9,570	28,774
	Total	60,482	-	4	15	316	2,614	16,173	41,360
[other] COVID-19 (coronavirus) (U07)	MEN	13,744	89	127	350	883	1,988	4,207	6,100
	WOMEN	11,675	74	96	267	576	1,339	3,044	6,279
	Total	25,419	163	223	617	1,459	3,327	7,251	12,379

Notes: ICD-10 codes in parentheses. *Not classified elsewhere
This table compiles data from the four countries of the UK. England and Wales data from Nomis includes non-resident mortality.
these tables exclude deaths before 28 days, so neonatal deaths from congenital heart anomalies are excluded here

Citation: BHF (2024) Analysis of official UK mortality data

Sources: England and Wales, Office for National Statistics (2024) Deaths registered by cause, sex and age. [Accessed July 2024].
www.nomisweb.co.uk/datasets/mortsa
Scotland, National Records of Scotland (2024) Deaths, by sex, age and cause. [Accessed July 2024].
<https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/general-publications/vital-events-reference-tables/2022/list-of-data-tables#section6>
Northern Ireland, Statistics and Research Agency (2024) Deaths by sex, age and cause. [Accessed July 2024].
<https://www.nisra.gov.uk/publications/registrars-general-annual-report-2022-cause-death>
For deaths due to C38.0 in Scotland and Northern Ireland, data was sourced via personal correspondence.

Table 1.2 Deaths by cause, by sex and age, England, Wales, Scotland and Northern Ireland 2022

[Back to Table of Contents](#)

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		All ages				Under 75			
		England	Wales	Scotland	Northern Ireland	England	Wales	Scotland	Northern Ireland
All causes	MEN	273,579	17,846	31,283	8,548	100,706	6,641	13,272	3,491
	WOMEN	266,754	17,848	31,658	8,611	68,335	4,819	9,568	2,353
	Total	540,333	35,694	62,941	17,159	169,041	11,460	22,840	5,844
All heart and circulatory diseases (I00-I99, C38.0, F01, G45, P29, Q20-Q28)	MEN	75,943	5,156	9,214	2,102	26,776	1,819	3,474	758
	WOMEN	66,695	4,409	8,863	1,977	12,336	915	1,880	373
	Total	142,638	9,565	18,077	4,079	39,112	2,734	5,354	1,131
Diseases of the circulatory system (I00-I99)	MEN	71,266	4,835	8,468	1,968	26,265	1,785	3,406	738
	WOMEN	60,012	3,934	7,736	1,795	11,994	889	1,811	358
	Total	131,278	8,769	16,204	3,763	38,259	2,674	5,217	1,096
Chronic rheumatic heart diseases (I05-I09)	MEN	325	16	34	12	94	6	9	0
	WOMEN	601	32	64	39	134	11	16	5
	Total	926	48	98	51	228	17	25	5
Hypertensive diseases (I10-I15)	MEN	3,587	177	389	77	1,203	50	151	27
	WOMEN	4,658	233	473	121	600	45	88	13
	Total	8,245	410	862	198	1,803	95	239	40
Coronary heart disease (I20-I25)	MEN	35,963	2,597	4,369	1,004	15,588	1,104	2,020	435
	WOMEN	19,233	1,325	2,761	588	4,959	370	835	154
	Total	55,196	3,922	7,130	1,592	20,547	1,474	2,855	589
Myocardial infarction (I21-I22)	MEN	12,370	863	2,470	568	5,899	393	1,022	256
	WOMEN	6,777	437	1,655	334	1,929	133	450	100
	Total	19,147	1,300	4,125	902	7,828	526	1,472	356
Other heart diseases (I26-I52)	MEN	13,918	927	1,452	376	3,813	255	485	115
	WOMEN	15,659	1,051	1,680	503	2,326	160	317	65
	Total	29,577	1,978	3,132	879	6,139	415	802	180
Stroke (cerebrovascular disease; CBVD) (I60-I69)	MEN	12,228	770	1,635	379	3,482	234	493	108
	WOMEN	15,239	945	2,230	458	2,686	183	408	92
	Total	27,467	1,715	3,865	837	6,168	417	901	200
Diseases of arteries, arterioles and capillaries (I70-I79)	MEN	4,070	252	498	100	1,345	83	181	34
	WOMEN	3,327	214	432	65	672	50	91	13
	Total	7,397	466	930	165	2,017	133	272	47
Diseases of veins, lymphatic vessels and lymph nodes* (I80-I89)	MEN	1,165	96	89	20	739	53	67	19
	WOMEN	1,287	134	91	21	617	70	56	16
	Total	2,452	230	180	41	1,356	123	123	35
Malignant neoplasm: Heart (C38.0)	MEN	10	0	2	0	7	0	1	0
	WOMEN	6	2	2	0	5	2	0	0
	Total	16	2	4	0	12	2	1	0
Vascular dementia (F01)	MEN	4,408	312	723	128	298	26	49	16
	WOMEN	6,480	458	1,096	172	200	14	49	10
	Total	10,888	770	1,819	300	498	40	98	26
Transient cerebral ischaemic attacks and related syndromes (G45)	MEN	15	0	2	2	0	0	1	0
	WOMEN	23	0	7	2	1	0	0	0
	Total	38	0	9	4	1	0	1	0
Cardiovascular disorders originating in the perinatal period (P29)	MEN	3	0	0	0	3	0	0	0
	WOMEN	2	0	2	0	2	0	2	0
	Total	5	0	2	0	5	0	2	0
Congenital malformations of the circulatory system (Q20-Q28)	MEN	241	9	19	4	203	8	17	4
	WOMEN	172	15	20	8	134	10	18	5
	Total	413	24	39	12	337	18	35	9
All cancer (C00-D48)	MEN	76,480	4,961	8,706	2,493	32,763	2,127	4,024	1,173
	WOMEN	66,657	4,456	8,019	2,254	28,332	1,921	3,615	973
	Total	143,137	9,417	16,725	4,747	61,095	4,048	7,639	2,146
Lung cancer (C33, C34)	MEN	13,908	931	1,956	536	6,625	441	1,012	269
	WOMEN	12,811	879	1,969	476	5,844	414	941	237
	Total	26,719	1,810	3,925	1,012	12,469	855	1,953	506
Breast cancer (C50)	MEN	66	6	3	0	28	3	1	0
	WOMEN	9,368	566	949	299	4,520	287	526	143
	Total	9,434	572	952	299	4,548	290	527	143
Respiratory disease (excl COVID-19) (J00-J99)	MEN	30,286	2,119	2,926	928	8,357	623	981	278
	WOMEN	29,192	2,274	3,209	999	6,658	579	895	247
	Total	59,478	4,393	6,135	1,927	15,015	1,202	1,876	525
Lower respiratory disease (J40 - J47)	MEN	13,698	978	1,448	454	4,715	355	599	159
	WOMEN	13,988	1,124	1,671	503	4,256	390	619	161
	Total	27,686	2,102	3,119	957	8,971	745	1,218	320
[other] Diabetes (E10-E14)	MEN	3,936	257	649	164	1,339	82	308	68
	WOMEN	3,575	233	508	111	753	69	169	28
	Total	7,511	490	1,157	275	2,092	151	477	96
[other] Unspecified dementia/Alzheimer's (F03, G30)	MEN	17,606	999	1,415	516	1,141	70	109	32
	WOMEN	33,624	2,064	3,043	1,201	1,319	88	141	48
	Total	51,230	3,063	4,458	1,717	2,460	158	250	80
[other] COVID-19 (coronavirus) (U07)	MEN	11,476	719	1,174	348	2,857	177	298	93
	WOMEN	9,586	624	1,140	307	1,917	111	240	71
	Total	21,062	1,343	2,314	655	4,774	288	538	164

Notes: ICD-10 codes in parentheses. *Not classified elsewhere

This table compiles data from the four countries of the UK. Excludes non-resident mortality (included in Table 1.1 UK totals)

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

Citation: BHF (2024) Analysis of official UK mortality data

Sources: England and Wales, Office for National Statistics (2024) Deaths registered by cause, sex and age. [Accessed July 2024].

www.nomisweb.co.uk/datasets/mortsa

Scotland, National Records of Scotland (2024) Deaths, by sex, age and cause. [Accessed July 2024].

<https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/general-publications/vital-events-reference-tables/2022/list-of-data-tables#section6>

Northern Ireland, Statistics and Research Agency (2024) Deaths by sex, age and cause. [Accessed July 2024].

<https://www.nisra.gov.uk/publications/registar-general-annual-report-2022-cause-death>

For deaths due to C38.0 in Scotland and Northern Ireland, data was sourced via personal correspondence.

Table 1.3 Age-standardised death rates per 100,000 from all heart and circulatory diseases, all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	627	419	507	616	408	496	669	456	547	709	493	584	663	450	538
2002	611	411	496	601	400	484	641	447	532	699	494	580	635	439	520
2003	590	403	482	576	393	472	648	431	522	699	475	567	594	409	486
2004	544	370	445	533	360	434	557	397	467	649	449	532	563	386	461
2005	515	351	422	504	341	411	554	383	458	606	426	503	535	354	429
2006	483	328	395	473	319	386	507	351	420	562	398	467	494	347	410
2007	464	317	381	451	308	370	492	347	412	565	384	460	500	329	398
2008	450	311	372	440	303	363	482	332	397	525	377	442	479	320	384
2009	420	289	346	411	281	338	443	313	372	491	353	413	437	300	358
2010	409	278	336	399	271	328	440	301	362	483	333	397	431	285	346
2011	373	253	305	363	245	297	403	270	328	452	319	377	389	257	315
2012	367	256	305	358	248	296	406	273	330	436	321	373	373	261	311
2013	363	248	299	354	241	291	405	266	327	431	306	361	362	249	298
2014	348	235	285	340	229	278	372	251	305	413	290	344	343	229	277
2015	352	242	291	344	235	283	374	261	313	432	308	364	342	230	278
2016	337	229	277	329	222	270	364	247	300	412	289	343	319	219	263
2017	334	226	275	325	220	267	356	234	291	409	291	344	335	218	269
2018	328	220	269	320	213	261	359	236	293	403	281	335	313	209	254
2019	315	210	258	307	203	250	342	227	280	388	277	327	311	204	251
2020	322	214	263	314	206	255	341	232	282	400	277	333	308	207	252
2021	318	209	259	310	202	251	351	230	285	395	277	331	297	201	244
2022	326	212	264	319	205	257	351	225	282	396	282	334	297	200	243

Notes: ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 (heart and circulatory diseases - cardiovascular disease - CVD). Directly age-standardised using the 2013 European Standard Population.
Historical data for the UK and across nations may vary from previous publications due to the rebasing of mid-year population estimates, changes to death classifications, and updating the European Standard Population weightings for earlier date.
England rates are based on deaths and population data from Nomis and Office of National Statistics. Values may differ from those available in analyses from Office for Health Improvement and Disparities.

Citation: BHF (2024) Analysis of official UK mortality data

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

Table 1.4 Age-standardised death rates per 100,000 from all heart and circulatory diseases, under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	221	104	159	214	100	155	242	117	176	266	130	194	222	107	161
2002	210	99	152	203	94	147	231	110	168	255	127	186	221	105	159
2003	199	93	144	193	90	139	220	103	159	247	119	179	201	88	141
2004	183	84	132	178	81	127	190	96	141	225	109	163	193	90	139
2005	171	79	123	166	76	119	188	88	136	214	102	155	173	82	125
2006	159	74	115	155	71	112	172	79	124	195	97	144	162	81	120
2007	152	69	109	146	66	105	160	78	118	198	92	142	156	71	112
2008	143	66	103	138	63	100	151	73	111	184	86	132	144	72	106
2009	134	60	96	130	57	93	146	70	107	164	80	120	136	68	100
2010	131	58	93	127	56	90	136	64	99	162	75	116	140	64	101
2011	120	53	85	115	50	82	130	63	96	151	71	109	127	52	88
2012	114	53	82	110	51	79	124	60	91	146	70	107	117	46	80
2013	113	51	81	109	49	78	127	57	91	143	68	104	111	50	80
2014	109	49	78	106	47	76	118	55	86	133	62	96	103	48	75
2015	109	50	79	105	48	76	126	60	92	139	65	100	104	51	77
2016	107	49	77	104	47	75	121	57	88	134	65	98	100	49	74
2017	106	47	76	102	45	73	124	52	87	133	64	97	103	47	74
2018	106	47	76	103	46	74	121	56	88	128	60	93	96	45	70
2019	102	46	73	99	44	71	120	54	86	124	61	91	96	45	70
2020	111	48	79	107	46	76	126	60	92	138	63	99	104	46	74
2021	113	50	80	110	47	78	131	61	95	140	66	102	93	45	69
2022	115	51	82	112	49	79	125	60	91	138	69	102	95	45	70

Notes: ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 (heart and circulatory diseases - cardiovascular disease - CVD). Directly age-standardised using the 2013 European Standard Population.
Historical data for the UK and across nations may vary from previous publications due to the rebasing of mid-year population estimates, changes to death classifications, and updating the European Standard Population weightings for earlier date.
England rates are based on deaths and population data from Nomis and Office of National Statistics. Values may differ from those available in analyses from Office for Health Improvement and Disparities.

Citation: BHF (2024) Analysis of official UK mortality data

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

Table 1.5 Age-standardised death rates per 100,000 from coronary heart disease (CHD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	348	181	251	340	175	244	378	201	275	399	224	295	387	211	282
2002	335	175	241	328	169	235	360	195	265	389	217	287	349	197	259
2003	321	169	233	312	164	226	357	187	257	388	207	280	340	184	248
2004	297	155	214	289	149	208	312	172	231	359	195	262	323	174	237
2005	280	145	202	271	139	195	315	164	227	337	183	247	320	164	227
2006	257	134	186	251	128	180	275	148	203	303	170	225	284	157	210
2007	246	126	177	238	122	171	265	143	197	305	155	217	283	145	201
2008	233	121	169	227	116	163	260	131	186	275	151	204	269	138	191
2009	217	109	155	211	105	150	234	122	171	258	138	188	247	132	180
2010	209	103	148	203	99	143	227	115	163	252	130	181	241	121	170
2011	189	92	134	183	88	129	210	102	148	229	120	166	213	97	146
2012	183	90	130	178	87	126	206	98	144	219	116	160	202	100	143
2013	180	87	127	175	84	123	204	97	144	209	109	152	188	96	136
2014	168	79	118	164	76	115	182	85	127	197	100	141	178	84	123
2015	167	79	117	163	75	113	184	89	131	202	102	146	173	87	123
2016	156	72	109	152	69	106	177	80	123	184	95	134	153	71	106
2017	155	70	108	151	68	105	171	78	120	185	90	132	159	71	110
2018	150	65	103	146	63	100	170	73	116	180	87	128	142	61	96
2019	144	63	99	140	61	96	162	70	111	176	84	124	144	65	100
2020	146	62	100	143	60	97	157	69	109	181	82	126	143	66	99
2021	148	62	101	144	59	97	170	75	117	183	87	130	134	60	93
2022	151	63	102	147	60	99	173	68	115	181	88	129	136	60	93

Notes: ICD-10 codes I20-I25 (ischaemic heart disease - coronary heart disease - CHD). Directly age-standardised using the 2013 European Standard Population.
Historical data for the UK and across nations may vary from previous publications due to the rebasing of mid-year population estimates, changes to death classifications, and updating the European Standard Population weightings for earlier date.
England rates are based on deaths and population data from Nomis and Office of National Statistics. Values may differ from those available in analyses from Office for Health Improvement and Disparities.

Citation: BHF (2024) Analysis of official UK mortality data

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

Table 1.6 Age-standardised death rates per 100,000 from coronary heart disease (CHD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
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	52	63	22	42
2015	64	20	42	61	19	40	77	25	50	83	27	54	67	22	44
2016	62	20	40	60	18	39	73	24	48	78	28	52	57	20	38
2017	62	19	40	59	18	38	73	21	46	79	27	52	62	19	40
2018	62	18	39	60	18	38	72	23	47	75	25	49	56	18	36
2019	59	18	38	57	17	37	71	22	46	74	26	49	56	19	37
2020	64	19	41	62	18	39	72	23	47	80	25	51	60	17	38
2021	66	20	42	64	19	41	81	27	53	83	28	54	53	17	35
2022	67	21	43	65	20	42	76	24	49	80	31	54	54	19	36

Notes: ICD-10 codes I20-I25 (ischaemic heart disease - coronary heart disease - CHD). Directly age-standardised using the 2013 European Standard Population.
Historical data for the UK and across nations may vary from previous publications due to the rebasing of mid-year population estimates, changes to death classifications, and updating the European Standard Population weightings for earlier date.
England rates are based on deaths and population data from Nomis and Office of National Statistics. Values may differ from those available in analyses from Office for Health Improvement and Disparities.

Citation: BHF (2024) Analysis of official UK mortality data

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

Table 1.7 Age-standardised death rates per 100,000 from stroke (CBVD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	147	135	141	144	132	138	152	143	148	179	165	172	151	140	146
2002	148	135	141	145	131	138	148	145	148	176	169	173	147	142	145
2003	142	132	137	138	129	134	156	137	145	175	161	168	146	135	140
2004	128	120	125	125	117	121	124	127	128	165	151	158	136	124	129
2005	120	114	117	117	111	114	122	115	120	147	142	146	117	110	114
2006	114	106	110	111	103	107	122	109	114	138	130	135	117	109	114
2007	107	102	105	104	99	102	113	105	110	136	125	131	116	109	112
2008	105	100	103	102	97	100	106	108	109	131	125	129	114	107	109
2009	96	92	95	94	89	92	100	101	102	117	116	117	95	94	96
2010	94	89	92	91	87	90	101	95	98	115	105	110	100	93	97
2011	78	73	76	75	70	73	77	75	77	104	101	104	82	83	84
2012	74	72	74	72	69	71	80	74	77	96	98	99	77	81	81
2013	72	68	71	69	65	67	82	71	76	99	94	97	82	76	79
2014	70	64	67	68	62	65	79	72	75	88	86	87	76	66	71
2015	70	65	68	68	63	66	69	71	70	92	88	90	76	64	69
2016	66	60	63	63	57	60	67	66	67	88	82	85	74	63	67
2017	62	57	60	60	55	58	61	59	61	81	77	79	71	61	66
2018	60	56	58	58	53	56	67	61	65	79	73	77	65	58	61
2019	57	52	54	55	49	52	60	57	58	70	73	73	58	50	54
2020	56	51	54	54	49	52	59	57	59	78	73	76	56	50	53
2021	55	49	52	52	47	50	61	51	56	75	70	73	56	47	51
2022	54	49	51	52	47	49	53	48	50	72	71	72	55	46	50

Notes:

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

Historical data for the UK and across nations may vary from previous publications due to the rebasing of mid-year population estimates, changes to death classifications, and updating the European Standard Population weightings for earlier date.

England rates are based on deaths and population data from Nomis and Office of National Statistics. Values may differ from those available in analyses from Office for Health Improvement and Disparities.

Citation:

BHF (2024) Analysis of official UK mortality data

Source:

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

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

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

Table 1.8 Age-standardised death rates per 100,000 from stroke (CBVD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
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	16	21	16	19	17	14	15
2017	15	11	13	15	11	13	17	12	14	19	14	16	15	12	14
2018	15	12	13	14	11	13	16	12	14	19	14	17	14	13	13
2019	15	11	13	14	10	12	16	13	14	18	15	16	14	9	11
2020	15	11	13	15	11	13	17	12	14	21	15	18	16	11	14
2021	16	11	13	15	11	13	17	11	14	20	15	17	15	11	13
2022	15	11	13	15	11	13	16	12	14	20	15	17	14	11	12

Notes: ICD-10 codes I60-I69 (stroke - cerebrovascular disease - CBVD). Directly age-standardised using the 2013 European Standard Population.
 Historical data for the UK and across nations may vary from previous publications due to the rebasing of mid-year population estimates, changes to death classifications, and updating the European Standard Population weightings for earlier date.
 England rates are based on deaths and population data from Nomis and Office of National Statistics. Values may differ from those available in analyses from Office for Health Improvement and Disparities.

Citation: BHF (2024) Analysis of official UK mortality data

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

Table 1.9 Number of deaths from all heart and circulatory diseases, all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	115,191	126,977	242,168	95,182	104,002	199,184	6,580	7,397	13,977	10,645	12,489	23,134	2,784	3,089	5,873
2002	113,454	125,626	239,080	93,744	102,701	196,445	6,415	7,296	13,711	10,595	12,555	23,150	2,700	3,074	5,774
2003	110,685	123,410	234,095	91,046	101,392	192,438	6,468	7,068	13,536	10,593	12,053	22,646	2,578	2,897	5,475
2004	103,831	113,933	217,764	85,587	93,186	178,773	5,719	6,546	12,265	9,989	11,436	21,425	2,536	2,765	5,301
2005	100,243	109,452	209,695	82,369	89,497	171,866	5,792	6,393	12,185	9,642	10,972	20,614	2,440	2,590	5,030
2006	95,631	103,660	199,291	78,872	84,736	163,608	5,403	5,937	11,340	9,038	10,401	19,439	2,318	2,586	4,904
2007	93,822	101,276	195,098	76,791	82,751	159,542	5,401	5,932	11,333	9,280	10,080	19,360	2,350	2,513	4,863
2008	92,113	100,301	192,414	75,714	82,153	157,867	5,283	5,740	11,023	8,815	9,935	18,750	2,301	2,473	4,774
2009	88,394	94,303	182,697	72,838	77,124	149,962	5,032	5,459	10,491	8,366	9,365	17,731	2,158	2,355	4,513
2010	88,232	92,718	180,950	72,517	75,979	148,496	5,043	5,368	10,411	8,454	9,087	17,541	2,218	2,284	4,502
2011	82,501	85,767	168,268	67,542	69,904	137,446	4,747	4,865	9,612	8,147	8,885	17,032	2,065	2,113	4,178
2012	83,020	88,627	171,647	68,054	72,306	140,360	4,855	5,029	9,884	8,081	9,094	17,175	2,030	2,198	4,228
2013	84,299	86,834	171,133	68,891	70,925	139,816	4,967	4,924	9,891	8,147	8,723	16,870	2,019	2,116	4,135
2014	83,260	84,053	167,313	68,314	68,749	137,063	4,685	4,712	9,397	8,008	8,449	16,457	1,971	1,998	3,969
2015	85,912	86,965	172,877	70,256	70,887	141,143	4,815	4,883	9,698	8,519	9,001	17,520	2,019	2,044	4,063
2016	84,408	83,207	167,615	69,090	67,841	136,931	4,753	4,656	9,409	8,342	8,548	16,890	1,946	1,989	3,935
2017	85,423	83,118	168,541	69,715	67,790	137,505	4,804	4,426	9,230	8,499	8,743	17,242	2,111	1,997	4,108
2018	85,897	81,219	167,116	70,168	66,149	136,317	4,907	4,469	9,376	8,516	8,486	17,002	2,005	1,933	3,938
2019	84,742	79,147	163,889	69,115	64,182	133,297	4,768	4,346	9,114	8,451	8,505	16,956	2,070	1,943	4,013
2020	87,789	80,528	168,317	71,704	65,448	137,152	4,881	4,459	9,340	8,928	8,520	17,448	2,099	2,001	4,100
2021	88,415	79,618	168,033	72,100	64,516	136,616	5,062	4,441	9,503	9,018	8,621	17,639	2,069	1,967	4,036
2022	92,713	82,114	174,827	75,943	66,695	142,638	5,156	4,409	9,565	9,214	8,863	18,077	2,102	1,977	4,079

Notes:

ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 (heart and circulatory diseases - cardiovascular disease - CVD).

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

Historical data across the nations and the UK may vary from previous editions, as death classifications have changed over time. Data pre-2001 is provided in previous editions of the Compendium.

The total number of deaths in England have been taken from ONS Nomis Mortality Statistics. Values may differ from those available in analyses from Office for Health Improvement and Disparities.

Citation:

BHF (2024) Analysis of official UK mortality data

Source:

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

2013 onwards: Nomis Mortality Statistics

www.nomisweb.co.uk/datasets/mortsa

Scotland: National Records of Scotland Mortality Statistics; C38.0 data sourced via personal correspondence

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

Northern Ireland, Statistics and Research Agency (NISRA): Registrar General Annual Report; archive; C38.0 data sourced via personal correspondence

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

www.nisra.gov.uk/publications/registrar-general-annual-report-2022-cause-death

Table 1.10 Number of deaths from all heart and circulatory diseases, under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	46,821	24,298	71,119	38,029	19,405	57,434	2,708	1,446	4,154	4,915	2,795	7,710	1,169	652	1,821
2002	45,067	23,202	68,269	36,510	18,450	54,960	2,629	1,364	3,993	4,758	2,745	7,503	1,170	643	1,813
2003	43,305	22,089	65,394	35,002	17,674	52,676	2,537	1,288	3,825	4,676	2,585	7,261	1,090	542	1,632
2004	40,287	20,115	60,402	32,668	15,972	48,640	2,222	1,208	3,430	4,320	2,375	6,695	1,077	560	1,637
2005	38,195	18,969	57,164	30,812	15,093	45,905	2,229	1,113	3,342	4,174	2,248	6,422	980	515	1,495
2006	35,971	17,905	53,876	29,083	14,223	43,306	2,071	1,017	3,088	3,872	2,150	6,022	945	515	1,460
2007	34,787	16,933	51,720	27,891	13,421	41,312	1,976	1,006	2,982	3,984	2,044	6,028	936	462	1,398
2008	33,500	16,379	49,879	26,960	12,990	39,950	1,897	960	2,857	3,763	1,956	5,719	880	473	1,353
2009	31,989	15,274	47,263	25,863	12,045	37,908	1,865	937	2,802	3,414	1,837	5,251	847	455	1,302
2010	31,756	14,916	46,672	25,681	11,888	37,569	1,763	863	2,626	3,415	1,726	5,141	897	439	1,336
2011	29,379	13,683	43,062	23,621	10,822	34,443	1,698	865	2,563	3,236	1,642	4,878	824	354	1,178
2012	28,479	13,939	42,418	22,862	11,114	33,976	1,645	835	2,480	3,194	1,659	4,853	778	331	1,109
2013	29,080	13,758	42,838	23,248	10,871	34,119	1,704	814	2,518	3,167	1,626	4,793	755	364	1,119
2014	28,538	13,475	42,013	22,990	10,723	33,713	1,622	790	2,412	3,001	1,520	4,521	722	356	1,078
2015	29,125	14,112	43,237	23,263	11,167	34,430	1,744	866	2,610	3,168	1,602	4,770	738	380	1,118
2016	29,214	14,158	43,372	23,438	11,204	34,642	1,697	848	2,545	3,151	1,622	4,773	726	381	1,107
2017	29,485	14,001	43,486	23,568	11,124	34,692	1,772	786	2,558	3,186	1,629	4,815	768	366	1,134
2018	30,025	14,236	44,261	24,238	11,343	35,581	1,750	857	2,607	3,107	1,568	4,675	724	361	1,085
2019	29,332	13,920	43,252	23,547	11,036	34,583	1,746	820	2,566	3,063	1,605	4,668	735	359	1,094
2020	31,861	14,764	46,625	25,642	11,711	37,353	1,837	925	2,762	3,446	1,702	5,148	803	374	1,177
2021	32,686	15,273	47,959	26,371	12,110	38,481	1,915	949	2,864	3,542	1,803	5,345	742	372	1,114
2022	33,031	15,606	48,637	26,776	12,336	39,112	1,819	915	2,734	3,474	1,880	5,354	758	373	1,131

Notes:

ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 (heart and circulatory diseases - cardiovascular disease - CVD).

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

Historical data across the nations and the UK may vary from previous editions, as death classifications have changed over time. Data pre-2001 is provided in previous editions of the Compendium.

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Citation:

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Source:

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

2013 onwards: Nomis Mortality Statistics

www.nomisweb.co.uk/datasets/mortsa

Scotland: National Records of Scotland Mortality Statistics; C38.0 data sourced via personal correspondence

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

Northern Ireland, Statistics and Research Agency (NISRA): Registrar General Annual Report; archive; C38.0 data sourced via personal correspondence

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

www.nisra.gov.uk/publications/registrar-general-annual-report-2022-cause-death

Table 1.11 Number of deaths from coronary heart disease (CHD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	66,400	54,491	120,891	54,566	44,144	98,710	3,882	3,236	7,118	6,258	5,656	11,914	1,693	1,455	3,148
2002	64,473	53,003	117,476	52,938	42,960	95,898	3,776	3,162	6,938	6,190	5,502	11,692	1,569	1,379	2,948
2003	62,399	51,495	113,894	50,986	41,890	92,876	3,681	3,054	6,735	6,199	5,241	11,440	1,533	1,310	2,843
2004	58,565	47,289	105,854	47,914	38,267	86,181	3,313	2,807	6,120	5,814	4,964	10,778	1,524	1,251	2,775
2005	56,135	44,821	100,956	45,628	36,193	81,821	3,375	2,721	6,096	5,629	4,702	10,331	1,503	1,205	2,708
2006	52,594	41,818	94,412	43,086	33,725	76,811	3,020	2,493	5,513	5,099	4,433	9,532	1,389	1,167	2,556
2007	51,386	40,088	91,474	41,731	32,468	74,199	3,002	2,436	5,438	5,260	4,083	9,343	1,393	1,101	2,494
2008	49,473	38,498	87,971	40,339	31,194	71,533	2,931	2,256	5,187	4,852	3,989	8,841	1,351	1,059	2,410
2009	47,149	35,379	82,528	38,531	28,564	67,095	2,744	2,110	4,854	4,600	3,674	8,274	1,274	1,031	2,305
2010	46,430	33,909	80,339	37,873	27,371	65,244	2,687	2,036	4,723	4,599	3,539	8,138	1,271	963	2,234
2011	43,040	30,764	73,804	34,993	24,835	59,828	2,551	1,823	4,374	4,320	3,316	7,636	1,176	790	1,966
2012	42,677	30,796	73,473	34,726	24,899	59,625	2,555	1,777	4,332	4,258	3,283	7,541	1,138	837	1,975
2013	43,057	29,970	73,027	35,036	24,243	59,279	2,588	1,776	4,364	4,155	3,084	7,239	1,105	811	1,916
2014	41,364	27,799	69,163	33,802	22,562	56,364	2,348	1,575	3,923	3,989	2,883	6,872	1,056	726	1,782
2015	41,959	27,826	69,785	34,103	22,390	56,493	2,447	1,638	4,085	4,168	2,974	7,142	1,060	765	1,825
2016	40,297	25,779	66,076	32,856	20,812	53,668	2,382	1,475	3,857	3,917	2,780	6,697	962	640	1,602
2017	40,974	25,367	66,341	33,327	20,525	53,852	2,383	1,438	3,821	4,034	2,693	6,727	1,045	646	1,691
2018	40,395	23,737	64,132	32,862	19,127	51,989	2,399	1,351	3,750	3,994	2,621	6,615	959	563	1,522
2019	39,845	23,392	63,237	32,304	18,837	51,141	2,331	1,317	3,648	4,004	2,556	6,560	1,000	613	1,613
2020	41,116	23,053	64,169	33,512	18,554	52,066	2,310	1,312	3,622	4,202	2,525	6,727	1,009	626	1,635
2021	42,434	23,145	65,579	34,479	18,421	52,900	2,513	1,416	3,929	4,350	2,698	7,048	989	582	1,571
2022	44,103	23,975	68,078	35,963	19,233	55,196	2,597	1,325	3,922	4,369	2,761	7,130	1,004	588	1,592

Notes:

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

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

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

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

www.nisra.gov.uk/publications/registrar-general-annual-report-2022-cause-death

Table 1.12 Number of deaths from coronary heart disease (CHD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	30,524	12,135	42,659	24,668	9,556	34,224	1,823	742	2,565	3,231	1,480	4,711	802	357	1,159
2002	28,918	11,412	40,330	23,308	8,959	32,267	1,743	674	2,417	3,088	1,449	4,537	779	330	1,109
2003	27,656	10,505	38,161	22,228	8,267	30,495	1,616	630	2,246	3,098	1,336	4,434	714	272	986
2004	25,546	9,481	35,027	20,561	7,388	27,949	1,419	601	2,020	2,841	1,214	4,055	725	278	1,003
2005	24,151	8,770	32,921	19,280	6,822	26,102	1,437	527	1,964	2,772	1,157	3,929	662	264	926
2006	22,446	8,191	30,637	18,005	6,364	24,369	1,308	470	1,778	2,491	1,098	3,589	642	259	901
2007	21,620	7,548	29,168	17,186	5,857	23,043	1,216	447	1,663	2,581	1,018	3,599	637	226	863
2008	20,706	7,369	28,075	16,593	5,774	22,367	1,167	420	1,587	2,375	958	3,333	571	217	788
2009	19,500	6,519	26,019	15,632	5,023	20,655	1,166	400	1,566	2,151	876	3,027	551	220	771
2010	19,047	6,329	25,376	15,258	4,938	20,196	1,081	359	1,440	2,142	839	2,981	566	193	759
2011	17,742	5,774	23,516	14,182	4,528	18,710	1,017	357	1,374	2,010	726	2,736	533	163	696
2012	17,148	5,797	22,945	13,638	4,508	18,146	995	388	1,383	2,015	738	2,753	500	163	663
2013	17,510	5,718	23,228	13,885	4,482	18,367	1,063	356	1,419	1,943	687	2,630	489	158	647
2014	16,835	5,483	22,318	13,529	4,298	17,827	923	328	1,251	1,806	666	2,472	447	160	607
2015	17,107	5,699	22,806	13,546	4,463	18,009	1,060	363	1,423	1,902	664	2,566	470	168	638
2016	16,981	5,634	22,615	13,558	4,364	17,922	1,035	357	1,392	1,838	714	2,552	414	156	570
2017	17,267	5,569	22,836	13,749	4,376	18,125	1,042	320	1,362	1,891	689	2,580	459	148	607
2018	17,444	5,523	22,967	14,025	4,336	18,361	1,033	349	1,382	1,841	650	2,491	423	140	563
2019	16,926	5,509	22,435	13,472	4,300	17,772	1,035	332	1,367	1,833	686	2,519	430	151	581
2020	18,334	5,705	24,039	14,757	4,505	19,262	1,056	361	1,417	1,999	678	2,677	460	141	601
2021	19,129	6,172	25,301	15,341	4,829	20,170	1,184	424	1,608	2,102	762	2,864	425	141	566
2022	19,266	6,361	25,627	15,588	4,959	20,547	1,104	370	1,474	2,020	835	2,855	435	154	589

Notes: ICD-10 codes I20-I25 (ischaemic heart disease - coronary heart disease - CHD).

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

Historical data across the nations and the UK may vary from previous editions, as death classifications have changed over time. Data pre-2001 is provided in previous editions of the Compendium.

The total number of deaths in England have been taken from ONS Nomis Mortality Statistics. Values may differ from those available in analyses from Office for Health Improvement and Disparities.

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Scotland: National Records of Scotland Mortality Statistics

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

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

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

Table 1.13 Number of deaths from stroke (CBVD), all ages, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	25,208	41,518	66,726	20,802	34,042	54,844	1,387	2,343	3,730	2,438	4,183	6,621	581	950	1,531
2002	25,538	41,846	67,384	21,186	34,157	55,343	1,360	2,386	3,746	2,413	4,309	6,722	579	994	1,573
2003	24,930	40,834	65,764	20,485	33,530	54,015	1,457	2,264	3,721	2,409	4,088	6,497	579	952	1,531
2004	22,969	37,485	60,454	18,939	30,618	49,557	1,195	2,112	3,307	2,294	3,861	6,155	541	894	1,435
2005	21,862	35,781	57,643	18,014	29,375	47,389	1,215	1,943	3,158	2,134	3,655	5,789	499	808	1,307
2006	21,264	33,829	55,093	17,491	27,750	45,241	1,202	1,858	3,060	2,060	3,406	5,466	511	815	1,326
2007	20,347	32,825	53,172	16,647	26,879	43,526	1,171	1,817	2,988	2,039	3,294	5,333	490	835	1,325
2008	20,323	32,743	53,066	16,676	26,704	43,380	1,095	1,895	2,990	2,051	3,316	5,367	501	828	1,329
2009	19,133	30,468	49,601	15,790	24,868	40,658	1,066	1,796	2,862	1,841	3,065	4,906	436	739	1,175
2010	19,244	30,044	49,288	15,781	24,708	40,489	1,085	1,711	2,796	1,889	2,875	4,764	489	750	1,239
2011	16,468	25,124	41,592	13,416	20,248	33,664	875	1,365	2,240	1,765	2,829	4,594	412	682	1,094
2012	16,153	25,163	41,316	13,144	20,310	33,454	929	1,381	2,310	1,686	2,789	4,475	394	683	1,077
2013	16,256	24,026	40,282	13,060	19,343	32,403	964	1,323	2,287	1,774	2,672	4,446	424	648	1,072
2014	16,222	23,060	39,282	13,208	18,579	31,787	963	1,353	2,316	1,605	2,518	4,123	423	579	1,002
2015	16,560	23,613	40,173	13,525	19,102	32,627	848	1,333	2,181	1,727	2,575	4,302	419	569	988
2016	16,023	21,748	37,771	12,993	17,446	30,439	852	1,257	2,109	1,712	2,430	4,142	434	568	1,002
2017	15,509	21,119	36,628	12,648	17,057	29,705	803	1,123	1,926	1,597	2,330	3,927	424	564	988
2018	15,478	20,568	36,046	12,520	16,612	29,132	901	1,169	2,070	1,621	2,210	3,831	395	532	927
2019	14,988	19,432	34,420	12,253	15,561	27,814	815	1,086	1,901	1,490	2,256	3,746	379	479	858
2020	15,095	19,423	34,518	12,184	15,563	27,747	830	1,102	1,932	1,674	2,253	3,927	375	479	854
2021	14,959	18,755	33,714	12,033	15,110	27,143	862	993	1,855	1,653	2,175	3,828	386	459	845
2022	15,060	18,916	33,976	12,228	15,239	27,467	770	945	1,715	1,635	2,230	3,865	379	458	837

Notes:

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

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

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Table 1.14 Number of deaths from stroke (CBVD), under 75, United Kingdom and England, Wales, Scotland, Northern Ireland, 2001 to 2022

[Back to Table of Contents](#)

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Year	United Kingdom			England			Wales			Scotland			Northern Ireland		
	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both	Men	Women	Both
2001	7,354	6,173	13,527	6,010	4,937	10,947	382	340	722	806	740	1,546	156	156	312
2002	7,318	5,976	13,294	5,944	4,741	10,685	400	356	756	780	709	1,489	194	170	364
2003	6,936	5,770	12,706	5,584	4,624	10,208	403	343	746	772	670	1,442	177	133	310
2004	6,374	5,210	11,584	5,182	4,149	9,331	340	300	640	694	614	1,308	158	147	305
2005	5,869	4,891	10,760	4,761	3,921	8,682	332	278	610	627	580	1,207	149	112	261
2006	5,486	4,506	9,992	4,382	3,606	7,988	310	257	567	645	522	1,167	149	121	270
2007	5,199	4,331	9,530	4,151	3,448	7,599	311	256	567	618	500	1,118	119	127	246
2008	5,132	4,069	9,201	4,039	3,183	7,222	295	248	543	667	511	1,178	131	127	258
2009	4,728	3,815	8,543	3,806	2,996	6,802	246	229	475	553	491	1,044	123	99	222
2010	4,810	3,742	8,552	3,898	2,969	6,867	246	235	481	526	416	942	140	122	262
2011	4,384	3,446	7,830	3,472	2,719	6,191	255	224	479	532	408	940	125	95	220
2012	4,076	3,452	7,528	3,246	2,749	5,995	261	189	450	463	433	896	106	81	187
2013	4,222	3,311	7,533	3,366	2,582	5,948	233	179	412	494	432	926	103	98	201
2014	4,161	3,329	7,490	3,345	2,661	6,006	260	189	449	427	380	807	115	82	197
2015	4,153	3,464	7,617	3,337	2,752	6,089	213	200	413	468	391	859	108	97	205
2016	4,297	3,508	7,805	3,426	2,761	6,187	241	207	448	484	409	893	125	104	229
2017	4,161	3,270	7,431	3,354	2,609	5,963	238	178	416	445	358	803	109	97	206
2018	4,217	3,459	7,676	3,393	2,763	6,156	236	189	425	462	378	840	100	101	201
2019	4,196	3,252	7,448	3,407	2,573	5,980	226	193	419	436	385	821	103	75	178
2020	4,417	3,392	7,809	3,508	2,694	6,202	241	189	430	522	402	924	121	93	214
2021	4,481	3,386	7,867	3,594	2,694	6,288	254	179	433	496	409	905	122	94	216
2022	4,355	3,394	7,749	3,482	2,686	6,168	234	183	417	493	408	901	108	92	200

Notes:

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

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

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

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

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

(P) figures for 2021/22 are preliminary ICD-10 codes for CVD I00-I99

* Excess winter deaths (EWD) figures for the latest winter are rounded to the nearest 100, figures for all other winters are final and are rounded to the nearest 10. As a result, some totals for persons and all ages will not always be equal to the sum of their parts.

Figures excluding COVID-19 have been calculated using all cause deaths that did not have COVID-19 mentioned on the death certificate. Alternatively, figures including COVID-19 have been calculated using deaths from all causes including those that had COVID-19 mentioned on the death certificate.

Please note: Updates to the Office for National Statistics' winter mortality dataset are paused pending results of the health and social care statistical products review.

Citation: BHF (2024) Analysis of ONS excess winter mortality data

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

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

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

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

Citation: BHF (2024) Analysis of ONS excess winter mortality data
Source: Office for National Statistics (2023) www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/bulletins/excesswintermortalityinenglandandwales/previousReleases

Table 1.17 Excess winter mortality for CVD and CHD by sex and age, Scotland 2013/14 to 2022/23

[Back to Table of Contents](#)

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		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20		2020/21		2021/22		2022/23 (P)	
Cardiovascular disease		Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Persons	0-64	30	5	40	6	120	18	140	22	60	9	80	13	30	5	90	12	110	14	90	12
	65-74	60	8	150	18	160	19	90	10	140	15	80	10	140	17	80	9	80	8	180	20
	75-84	160	10	390	25	230	16	240	16	400	27	200	14	100	6	160	11	120	8	330	20
	85+	250	14	540	29	260	14	360	20	490	28	240	14	280	15	290	16	180	10	390	21
	All ages	510	11	1,120	23	760	16	820	17	1,090	23	600	13	550	11	610	13	490	9	990	19

		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20		2020/21		2021/22		2022/23 (P)	
Coronary heart disease		Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Persons	0-64	20	6	20	5	60	16	80	22	20	4	30	9	10	3	50	13	60	14	50	10
	65-74	60	14	90	19	70	16	40	9	40	8	40	9	70	16	30	7	50	10	80	16
	75-84	90	12	190	26	90	14	90	12	190	29	110	17	50	7	80	13	40	5	170	25
	85+	60	8	170	23	120	17	130	21	160	26	120	19	90	14	50	7	30	4	200	31
	All ages	220	10	460	21	340	16	330	16	410	19	300	15	220	10	220	10	170	7	490	22

Notes:

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

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

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

The figures for individual age-groups may not sum up to the 'all ages' total due to rounding of figures. [P] provisional figures; revisions are very likely.

ICD-10 codes for CVD I00-I99; CHD I20-I25.

Citation: BHF (2024) Analysis of NRS excess winter mortality data

Source: National Records of Scotland, personal communication (2024)

Table 1.18 Excess winter mortality for CVD by sex and age, Northern Ireland 2013/14 to 2022/23

[Back to Table of Contents](#)

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		2013/14		2014/15		2015/16		2016/17		2017/18		2018/19		2019/20		2020/21		2021/22		2022/23	
		Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index	Excess winter mortality	Excess winter mortality index
Cardiovascular disease	Persons																				
	0-64	14	8.4	24	15.5	4	2.2	20	12.7	33	20.9	-7	-4.1	14	8.1	29	16.0	15	10.5	24	18.6
	65-74	9	4.9	41	22.2	50	26.5	63	35.0	49	26.3	12	6.4	29	16.6	-8	-3.8	6	3.0	22	12.9
	75-84	82	22.8	80	21.9	0	0.0	65	19.0	127	37.7	16	4.3	61	17.3	12	3.3	22	6.4	54	14.8
	85+	79	16.9	102	21.0	81	17.4	112	23.8	181	38.9	39	8.5	72	14.6	16	3.1	68	13.6	148	29.7
	All ages	184	15.7	247	20.7	134	11.4	259	22.6	389	34.1	60	5.1	176	14.8	49	3.9	110	9.4	248	21.3
Men	0-64	2	1.2	2	1.8	3	2.3	15	13.2	30	27.7	-4	-3.1	3	2.0	23	18.4	21	21.9	5	5.0
	65-74	0	0.0	30	25.6	13	10.2	37	31.1	37	31.9	27	23.1	21	18.8	6	4.2	7	6.1	6	5.0
	75-84	29	14.6	58	30.7	21	10.9	26	14.3	61	29.9	7	3.2	43	23.4	5	2.2	27	14.3	24	11.9
	85+	49	30.6	22	12.6	37	22.0	57	34.6	52	28.1	24	13.7	40	21.9	1	0.2	27	13.2	70	34.8
	All ages	79	13.3	112	18.9	73	12.3	134	23.3	179	29.3	54	8.9	106	17.7	33	5.0	81	13.6	104	17.2
Women	0-64	13	27.5	22	52.4	1	2.0	5	11.4	3	6.1	-3	-6.3	12	23.2	6	10.7	-6	-11.1	19	52.8
	65-74	9	14.1	11	16.2	37	62.4	26	42.9	12	17.1	-15	-22.7	8	12.7	-13	-19.7	-2	-2.1	17	26.8
	75-84	54	32.7	23	12.6	-21	-11.6	39	24.2	66	49.6	9	5.6	18	10.7	8	4.7	-5	-2.8	30	18.5
	85+	30	9.7	80	25.7	44	14.8	56	18.1	129	46.1	15	5.3	32	10.4	15	5.1	41	13.9	79	26.3
	All ages	105	18.1	135	22.6	61	10.5	125	21.9	210	39.5	6	1.1	70	11.8	16	2.7	30	5.1	144	25.8

Notes:

Excess winter mortality (EWM) calculation: winter deaths-average non-winter deaths.

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

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

ICD-10 codes for CVD I00-I99.

Citation:

BHF (2024) Analysis of NISRA excess winter mortality data

Source:

Northern Ireland Statistics Research Agency, personal communication; BHF analysis (2024)

Table 1.19 Number of deaths and age-standardised death rates for all heart and circulatory diseases, all ages by region and nation, United Kingdom 2020/22

[Back to Table of Contents](#)

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4N/UK rates (B17 to D22) revised Oct-24

	ALL AGES								
	Age-standardised heart and circulatory disease death rates per 100,000 - Annual Average (3-Year)			Total number of heart and circulatory disease deaths 2020/22			Average number of annual heart and circulatory disease deaths for 2020/22		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	330.1	221.0	271.3	20,816	18,630	39,446	6,939	6,210	13,149
East of England	286.0	185.2	230.8	24,126	21,682	45,808	8,042	7,227	15,269
London	301.9	191.7	241.3	22,167	19,147	41,314	7,389	6,382	13,771
North East England	329.0	212.0	265.0	11,534	9,984	21,518	3,845	3,328	7,173
North West England	353.9	225.3	283.9	32,536	27,703	60,239	10,845	9,234	20,080
South East England	283.9	171.3	231.1	34,773	33,000	67,773	11,591	11,000	22,591
South West England	280.2	179.3	224.9	25,462	23,703	49,165	8,487	7,901	16,388
West Midlands	333.2	215.5	269.7	25,115	22,193	47,308	8,372	7,398	15,769
Yorkshire and the Humber	336.8	220.9	273.9	23,220	20,618	43,838	7,740	6,873	14,613
England	314.1	204.3	254.3	219,749	196,660	416,409	73,250	65,553	138,803
Wales	347.3	228.6	283.1	15,100	13,310	28,410	5,033	4,437	9,470
Scotland	397.0	278.5	332.7	27,160	26,004	53,164	9,053	8,668	17,721
Northern Ireland	300.7	202.7	246.2	6,270	5,945	12,215	2,090	1,982	4,071
<i>Non-residents</i>				<i>641</i>	<i>343</i>	<i>984</i>	<i>214</i>	<i>114</i>	<i>328</i>
UK	322.2	211.6	262.0	268,920	242,262	511,182	89,640	80,754	170,394

Notes: ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 (heart and circulatory diseases - cardiovascular disease - CVD). Directly age-standardised using the 2013 European Standard Population.

Figures for England and Wales exclude non-resident mortality; tallies for these are in the UK total but are not included in the UK death rate calculation.

Citation: BHF (2024) Analysis of official UK mortality data

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

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

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

Table 1.20 Number of deaths and age-standardised death rates for all heart and circulatory diseases, under 75, by region and nation, United Kingdom 2020/22

[Back to Table of Contents](#)

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	UNDER 75								
	Age-standardised heart and circulatory disease premature death rates per 100,000 - Annual Average (3-Year)			Total number of premature heart and circulatory disease deaths 2020/22			Average number of annual premature heart and circulatory disease deaths for 2020/22		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	113.2	50.7	81.2	7,409	3,476	10,885	2,470	1,159	3,628
East of England	94.5	41.3	67.1	7,831	3,652	11,483	2,610	1,217	3,828
London	110.4	44.5	76.0	9,405	4,066	13,471	3,135	1,355	4,490
North East England	122.0	57.0	88.6	4,521	2,240	6,761	1,507	747	2,254
North West England	134.0	58.9	95.7	13,020	5,987	19,007	4,340	1,996	6,336
South East England	90.9	38.6	63.9	10,973	4,977	15,950	3,658	1,659	5,317
South West England	94.6	39.7	66.3	7,634	3,445	11,079	2,545	1,148	3,693
West Midlands	120.6	52.5	85.8	9,140	4,171	13,311	3,047	1,390	4,437
Yorkshire and the Humber	123.1	54.9	88.3	8,858	4,144	13,002	2,953	1,381	4,334
England	109.7	47.5	77.7	78,791	36,158	114,949	26,264	12,053	38,316
Wales	127.4	60.1	92.8	5,572	2,790	8,362	1,857	930	2,787
Scotland	138.6	66.4	101.2	10,462	5,385	15,847	3,487	1,795	5,282
Northern Ireland	97.6	45.4	70.9	2,303	1,119	3,422	768	373	1,141
<i>Non-residents</i>				<i>453</i>	<i>193</i>	<i>646</i>	<i>151</i>	<i>64</i>	<i>216</i>
UK	112.8	49.7	80.3	97,581	45,645	143,226	32,527	15,215	47,742

Notes: ICD-10 codes I00-I99, C38.0, F01, G45, P29, Q20-Q28 (heart and circulatory diseases - cardiovascular disease - CVD). Directly age-standardised using the 2013 European Standard Population. Figures for England and Wales exclude non-resident mortality; tallies for these are in the UK total but are not included in the UK death rate calculation.

Citation: BHF (2024) Analysis of official UK mortality data

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

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

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

Table 1.21 Number of deaths and age-standardised death rates for coronary heart disease (CHD), all ages, by region and nation, United Kingdom 2020/22

[Back to Table of Contents](#)

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	ALL AGES								
	Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2020/22			Average number of annual CHD deaths for 2020/22		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	153.8	64.3	104.9	10,027	5,339	15,366	3,342	1,780	5,122
East of England	126.5	51.4	84.9	10,888	5,865	16,753	3,629	1,955	5,584
London	142.0	56.1	93.9	10,731	5,504	16,235	3,577	1,835	5,412
North East England	157.9	68.8	108.8	5,733	3,212	8,945	1,911	1,071	2,982
North West England	168.9	71.3	115.4	16,125	8,643	24,768	5,375	2,881	8,256
South East England	120.2	48.1	80.0	14,986	8,253	23,239	4,995	2,751	7,746
South West England	130.5	52.1	87.2	11,327	6,122	17,449	3,776	2,041	5,816
West Midlands	158.5	64.5	107.1	12,313	6,479	18,792	4,104	2,160	6,264
Yorkshire and the Humber	166.5	73.8	115.5	11,824	6,791	18,615	3,941	2,264	6,205
England	144.6	59.6	97.7	103,954	56,208	160,162	34,651	18,736	53,387
Wales	166.3	70.8	113.8	7,420	4,053	11,473	2,473	1,351	3,824
Scotland	181.4	85.8	128.4	12,921	7,984	20,905	4,307	2,661	6,968
Northern Ireland	138.0	61.8	95.2	3,002	1,796	4,798	1,001	599	1,599
<i>Non-residents</i>				<i>356</i>	<i>132</i>	<i>488</i>	<i>119</i>	<i>44</i>	<i>163</i>
UK	148.5	62.4	101.0	127,653	70,173	197,826	42,551	23,391	65,942

Notes:

ICD-10 codes I20-I25 (ischaemic heart disease - coronary heart disease - CHD). Directly age-standardised using the 2013 European Standard Population. Figures for England and Wales exclude non-resident mortality; tallies for these are in the UK total but are not included in the UK death rate calculation.

Citation:

BHF (2024) Analysis of official UK mortality data

Source:

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

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

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

Table 1.22 Number of deaths and age-standardised death rates for coronary heart disease (CHD), under 75, by region and nation, United Kingdom 2020/22

[Back to Table of Contents](#)

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	UNDER 75								
	Age-standardised CHD premature death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths 2020/22			Average number of annual premature CHD deaths for 2020/22		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	67.2	20.1	43.1	4,408	1,379	5,787	1,469	460	1,929
East of England	52.5	15.5	33.5	4,352	1,372	5,724	1,451	457	1,908
London	62.4	16.5	38.4	5,242	1,458	6,700	1,747	486	2,233
North East England	72.2	24.8	47.9	2,685	983	3,668	895	328	1,223
North West England	81.0	25.0	52.4	7,876	2,542	10,418	2,625	847	3,473
South East England	48.8	13.6	30.7	5,895	1,753	7,648	1,965	584	2,549
South West England	53.6	14.2	33.3	4,341	1,241	5,582	1,447	414	1,861
West Midlands	73.2	21.9	47.0	5,543	1,739	7,282	1,848	580	2,427
Yorkshire and the Humber	74.2	24.2	48.6	5,344	1,826	7,170	1,781	609	2,390
England	63.7	18.8	40.6	45,686	14,293	59,979	15,229	4,764	19,993
Wales	76.5	24.7	49.9	3,344	1,155	4,499	1,115	385	1,500
Scotland	80.9	27.9	53.4	6,121	2,275	8,396	2,040	758	2,799
Northern Ireland	55.8	17.7	36.3	1,320	436	1,756	440	145	585
<i>Non-residents</i>				<i>258</i>	<i>79</i>	<i>337</i>	<i>86</i>	<i>26</i>	<i>113</i>
UK	65.6	19.9	42.1	56,729	18,238	74,967	18,910	6,079	24,989

Notes:

ICD-10 codes I20-I25 (ischaemic heart disease - coronary heart disease - CHD). Directly age-standardised using the 2013 European Standard Population.
Figures for England and Wales exclude non-resident mortality; tallies for these are in the UK total but are not included in the UK death rate calculation.

Citation:

BHF (2024) Analysis of official UK mortality data

Source:

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

Table 1.23 Number of deaths and age-standardised death rates for stroke (CBVD), all ages, by region and nation, United Kingdom 2020/22

[Back to Table of Contents](#)

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	ALL AGES								
	Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2020/22			Average number of annual stroke (CBVD) deaths for 2020/22		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	53.4	47.5	50.4	3,308	4,010	7,318	1,103	1,337	2,439
East of England	48.3	42.6	45.2	4,032	4,973	9,005	1,344	1,658	3,002
London	50.5	42.5	46.3	3,652	4,244	7,896	1,217	1,415	2,632
North East England	60.2	53.3	56.6	2,050	2,524	4,574	683	841	1,525
North West England	58.3	51.5	54.9	5,267	6,336	11,603	1,756	2,112	3,868
South East England	48.4	44.3	46.4	5,868	7,788	13,656	1,956	2,596	4,552
South West England	51.8	50.2	51.3	4,399	6,068	10,467	1,466	2,023	3,489
West Midlands	52.8	48.9	50.9	3,927	5,031	8,958	1,309	1,677	2,986
Yorkshire and the Humber	58.4	52.7	55.6	3,942	4,938	8,880	1,314	1,646	2,960
England	52.9	47.7	50.3	36,445	45,912	82,357	12,148	15,304	27,452
Wales	57.8	52.0	54.9	2,462	3,040	5,502	821	1,013	1,834
Scotland	75.0	71.2	73.5	4,962	6,658	11,620	1,654	2,219	3,873
Northern Ireland	55.8	47.7	51.1	1,140	1,396	2,536	380	465	845
<i>Non-residents</i>				<i>105</i>	<i>88</i>	<i>193</i>	<i>35</i>	<i>29</i>	<i>64</i>
UK	55.0	49.8	52.4	45,114	57,094	102,208	15,038	19,031	34,069

Notes:

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

Figures for England and Wales exclude non-resident mortality; tallies for these are in the UK total but are not included in the UK death rate calculation.

Citation:

BHF (2024) Analysis of official UK mortality data

Source:

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

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

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

Table 1.24 Number of deaths and age-standardised death rates for stroke (CBVD), under 75, by region and nation, United Kingdom 2020/22

[Back to Table of Contents](#)

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	UNDER 75								
	Age-standardised premature stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of premature stroke (CBVD) deaths 2020/22			Average number of annual premature stroke (CBVD) deaths for 2020/22		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
East Midlands	14.2	10.6	12.4	926	732	1,658	309	244	553
East of England	12.4	9.2	10.7	1,025	809	1,835	342	270	612
London	16.5	10.2	13.2	1,400	944	2,344	467	315	781
North East England	17.2	12.3	14.7	638	484	1,121	213	161	374
North West England	18.1	12.8	15.4	1,753	1,303	3,056	584	434	1,019
South East England	12.4	9.2	10.7	1,496	1,183	2,679	499	394	893
South West England	12.4	9.5	10.9	1,005	820	1,825	335	273	608
West Midlands	15.1	11.5	13.3	1,146	912	2,058	382	304	686
Yorkshire and the Humber	16.6	11.8	14.1	1,195	887	2,082	398	296	694
England	14.8	10.6	12.6	10,584	8,074	18,658	3,528	2,691	6,219
Wales	16.6	11.8	14.1	729	551	1,280	243	184	427
Scotland	20.0	15.0	17.4	1,511	1,219	2,730	504	406	910
Northern Ireland	15.0	11.4	13.1	351	279	630	117	93	210
<i>Non-residents</i>				<i>78</i>	<i>49</i>	<i>127</i>	<i>26</i>	<i>16</i>	<i>42</i>
UK	15.3	11.1	13.1	13,253	10,172	23,425	4,418	3,391	7,808

Notes:

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

Figures for England and Wales exclude non-resident mortality; tallies for these are in the UK total but are not included in the UK death rate calculation.

Citation:

BHF (2024) Analysis of official UK mortality data

Source:

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

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

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

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES															
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2020/22			Average number of annual CVD deaths 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)				
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N				
E06000055	Bedford	Bedfordshire	East of England	ENG	255.1	171.8	209.9	551	506	1,057	184	169	352	203	266	152				
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	254.7	157.9	201.4	888	708	1,596	296	236	532	234	299	247				
E06000032	Luton	Bedfordshire	East of England	ENG	319.9	205.2	258.7	634	507	1,141	211	169	380	59	97	51				
E06000036	Bracknell Forest	Berkshire	South East	ENG	245.7	144.7	189.6	321	244	565	107	81	188	265	330	265				
E06000038	Reading	Berkshire	South East	ENG	300.3	186.3	240.3	470	376	846	157	125	282	108	157	132				
E06000039	Slough	Berkshire	South East	ENG	336.9	213.4	271.7	393	296	689	131	99	230	34	61	74				
E06000037	West Berkshire	Berkshire	South East	ENG	233.9	152.7	189.8	497	426	923	166	142	308	263	328	272				
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	233.0	144.1	184.0	474	409	883	158	136	294	280	345	285				
E06000041	Wokingham	Berkshire	South East	ENG	223.2	129.6	171.3	482	374	856	161	125	285	291	356	295				
E06000023	Bristol, City of	Bristol	South West	ENG	294.4	180.0	232.9	1,268	1,041	2,309	423	347	770	135	187	77				
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	245.8	150.1	193.4	1,770	1,529	3,299	590	510	1,100	256	321	268				
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	249.5	165.8	202.4	625	572	1,197	208	191	399	229	294	165				
E07000008	Cambridge	Cambridgeshire	East of England	ENG	250.9	158.8	200.3	296	267	563	99	89	188	239	304	198				
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	254.1	170.0	206.4	309	284	593	103	95	198	216	280	250				
E07000010	Fenland	Cambridgeshire	East of England	ENG	320.8	197.3	252.4	486	419	905	162	140	302	73	116	50				
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	271.6	166.2	212.0	646	521	1,167	215	174	389	197	259	236				
E06000031	Peterborough	Cambridgeshire	East of England	ENG	314.5	195.6	249.9	676	545	1,221	225	182	407	76	121	52				
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	229.7	143.3	183.4	522	435	957	174	145	319	281	346	283				
E06000049	Cheshire East	Cheshire	North West	ENG	279.3	175.2	222.7	1,694	1,443	3,137	565	481	1,046	167	225	217				
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	283.8	173.5	222.9	1,430	1,186	2,616	477	395	872	166	224	170				
E06000006	Halton	Cheshire	North West	ENG	352.9	212.9	277.2	544	403	947	181	134	316	25	50	41				
E06000007	Warrington	Cheshire	North West	ENG	302.5	175.7	232.4	819	615	1,434	273	205	478	138	190	163				
E06000052	Cornwall	Cornwall	South West	ENG	304.6	198.0	246.3	2,834	2,523	5,357	945	841	1,786	84	131	79				
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232				
E06000047	County Durham	County Durham	North East	ENG	320.5	210.9	261.1	2,293	1,960	4,253	764	653	1,418	51	87	68				
E06000005	Darlington	County Durham	North East	ENG	306.7	193.2	245.1	453	382	835	151	127	278	90	137	100				
E06000001	Hartlepool	County Durham	North East	ENG	318.6	191.3	247.8	377	303	680	126	101	227	81	127	27				
E06000004	Stockton-on-Tees	County Durham	North East	ENG	302.9	183.0	236.6	738	580	1,318	246	193	439	117	166	112				
E06000063	Cumberland	Cumbria	North West	ENG	318.9	196.4	253.1	1,339	1,085	2,424	446	362	808	72	115	103				
E06000064	Westmorland and Furness	Cumbria	North West	ENG	282.1	186.8	230.4	1,072	966	2,038	357	322	679	144	199	160				
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	326.2	189.9	252.3	590	467	1,057	197	156	352	74	117	158				
E07000033	Bolsover	Derbyshire	East Midlands	ENG	341.4	221.1	274.1	350	306	656	117	102	219	28	53	57				
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	300.2	212.5	253.3	440	427	867	147	142	289	71	114	81				
E06000015	Derby	Derbyshire	East Midlands	ENG	331.2	200.8	261.0	981	831	1,812	327	277	604	52	89	84				
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	284.1	162.9	215.7	366	289	655	122	96	218	181	241	248				
E07000036	Erewash	Derbyshire	East Midlands	ENG	320.4	216.1	262.6	496	444	940	165	148	313	48	81	159				
E07000037	High Peak	Derbyshire	East Midlands	ENG	295.9	186.4	235.2	376	309	685	125	103	228	123	172	193				
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	281.4	190.6	232.7	463	404	867	154	135	289	137	189	166				
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	294.5	192.4	241.4	383	321	704	128	107	235	100	149	215				
E07000040	East Devon	Devon	South West	ENG	222.8	149.3	181.7	690	688	1,378	230	229	459	282	347	226				
E07000041	Exeter	Devon	South West	ENG	283.9	155.7	213.0	418	355	773	139	118	258	191	252	182				
E07000042	Mid Devon	Devon	South West	ENG	241.6	172.3	203.2	321	310	631	107	103	210	223	287	155				
E07000043	North Devon	Devon	South West	ENG	292.8	175.6	230.2	506	407	913	169	136	304	145	200	117				
E06000026	Plymouth	Devon	South West	ENG	302.1	200.9	246.1	982	906	1,888	327	302	629	86	133	71				
E07000044	South Hams	Devon	South West	ENG	228.8	148.8	185.0	372	335	707	124	112	236	277	342	206				
E07000045	Teignbridge	Devon	South West	ENG	265.4	179.6	219.2	633	608	1,241	211	203	414	171	229	175				
E06000027	Torbay	Devon	South West	ENG	307.3	173.3	234.8	761	610	1,371	254	203	457	125	175	48				
E07000046	Torridge	Devon	South West	ENG	292.4	205.8	245.4	361	340	701	120	113	234	89	136	66				
E07000047	West Devon	Devon	South West	ENG	277.1	161.6	214.7	295	233	528	98	78	176	189	249	130				
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	277.7	175.5	222.4	1,691	1,569	3,260	564	523	1,087	169	227	156				

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES														
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2020/22			Average number of annual CVD deaths 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)			
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N			
E06000059	Dorset	Dorset	South West	ENG	262.6	163.9	208.2	2,016	1,759	3,775	672	586	1,258	209	272	187			
E06000043	Brighton and Hove	East Sussex	South East	ENG	282.4	188.8	232.3	786	734	1,520	262	245	507	139	191	131			
E07000061	Eastbourne	East Sussex	South East	ENG	276.0	189.4	227.1	469	523	992	156	174	331	154	210	104			
E07000062	Hastings	East Sussex	South East	ENG	416.9	300.5	355.4	490	518	1,008	163	173	336	1	2	14			
E07000063	Lewes	East Sussex	South East	ENG	268.0	151.1	203.1	479	428	907	160	143	302	224	289	184			
E07000064	Rother	East Sussex	South East	ENG	300.7	217.7	256.2	607	695	1,302	202	232	434	64	105	126			
E07000065	Wealden	East Sussex	South East	ENG	258.8	173.5	212.1	731	710	1,441	244	237	480	196	258	238			
E07000066	Basildon	Essex	East of England	ENG	282.3	179.9	224.0	587	535	1,122	196	178	374	160	218	106			
E07000067	Braintree	Essex	East of England	ENG	265.7	167.2	212.8	554	481	1,035	185	160	345	192	253	194			
E07000068	Brentwood	Essex	East of England	ENG	249.4	143.9	190.8	277	246	523	92	82	174	260	325	269			
E07000069	Castle Point	Essex	East of England	ENG	276.4	162.6	212.5	392	328	720	131	109	240	194	255	172			
E07000070	Chelmsford	Essex	East of England	ENG	245.0	155.6	196.2	591	503	1,094	197	168	365	249	314	241			
E07000071	Colchester	Essex	East of England	ENG	250.1	159.8	200.7	581	504	1,085	194	168	362	238	303	173			
E07000072	Epping Forest	Essex	East of England	ENG	243.2	130.2	179.8	437	340	777	146	113	259	286	351	191			
E07000073	Harlow	Essex	East of England	ENG	308.7	171.0	228.6	287	223	510	96	74	170	152	208	97			
E07000074	Maldon	Essex	East of England	ENG	254.4	155.1	200.9	280	226	506	93	75	169	237	302	197			
E07000075	Rochford	Essex	East of England	ENG	279.2	143.7	200.1	356	266	622	119	89	207	243	308	267			
E06000033	Southend-on-Sea	Essex	East of England	ENG	306.7	167.8	229.2	720	571	1,291	240	190	430	149	204	115			
E07000076	Tendring	Essex	East of England	ENG	292.9	184.0	234.0	851	730	1,581	284	243	527	129	180	34			
E06000034	Thurrock	Essex	East of England	ENG	310.3	176.6	235.7	494	376	870	165	125	290	120	169	110			
E07000077	Uttlesford	Essex	East of England	ENG	227.8	136.3	177.5	287	242	529	96	81	176	288	353	276			
E07000078	Cheltenham	Gloucestershire	South West	ENG	273.6	169.2	215.0	434	408	842	145	136	281	187	247	228			
E07000079	Cotswold	Gloucestershire	South West	ENG	243.1	154.8	195.4	387	339	726	129	113	242	251	316	258			
E07000080	Forest of Dean	Gloucestershire	South West	ENG	270.1	185.8	226.2	378	347	725	126	116	242	155	213	135			
E07000081	Gloucester	Gloucestershire	South West	ENG	321.3	186.6	247.2	494	384	878	165	128	293	82	128	128			
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	235.1	148.4	188.7	893	757	1,650	298	252	550	266	331	251			
E07000082	Stroud	Gloucestershire	South West	ENG	240.4	158.4	194.9	448	401	849	149	134	283	253	318	261			
E07000083	Tewkesbury	Gloucestershire	South West	ENG	273.8	144.7	202.0	391	279	670	130	93	223	231	296	243			
E09000002	Barking and Dagenham	Greater London	London	ENG	342.4	207.0	269.3	508	391	899	169	130	300	38	66	5			
E09000003	Barnet	Greater London	London	ENG	266.3	188.7	224.6	1,042	1,113	2,155	347	371	718	159	217	171			
E09000004	Bexley	Greater London	London	ENG	267.5	175.1	215.6	740	727	1,467	247	242	489	183	243	177			
E09000005	Brent	Greater London	London	ENG	323.2	201.8	258.1	931	746	1,677	310	249	559	62	102	47			
E09000006	Bromley	Greater London	London	ENG	246.9	144.6	189.8	1,011	861	1,872	337	287	624	264	329	218			
E09000007	Camden	Greater London	London	ENG	273.4	161.4	210.9	466	382	848	155	127	283	200	262	125			
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189			
E09000008	Croydon	Greater London	London	ENG	273.7	168.3	216.0	1,041	852	1,893	347	284	631	178	238	96			
E09000009	Ealing	Greater London	London	ENG	287.7	168.7	223.3	919	677	1,596	306	226	532	162	220	87			
E09000010	Enfield	Greater London	London	ENG	301.2	200.7	245.7	958	899	1,857	319	300	619	88	135	58			
E09000011	Greenwich	Greater London	London	ENG	314.9	207.5	255.6	660	572	1,232	220	191	411	66	107	63			
E09000012	Hackney	Greater London	London	ENG	333.9	206.8	265.2	540	394	934	180	131	311	41	72	8			
E09000013	Hammersmith and Fulham	Greater London	London	ENG	326.5	178.8	239.2	402	311	713	134	104	238	111	160	93			
E09000014	Haringey	Greater London	London	ENG	347.3	209.5	272.1	683	526	1,209	228	175	403	31	57	36			
E09000015	Harrow	Greater London	London	ENG	254.5	182.0	215.4	708	712	1,420	236	237	473	184	244	188			
E09000016	Havering	Greater London	London	ENG	267.8	163.0	208.2	838	765	1,603	279	255	534	210	273	167			
E09000017	Hillingdon	Greater London	London	ENG	291.2	182.7	232.8	858	730	1,588	286	243	529	136	188	138			
E09000018	Hounslow	Greater London	London	ENG	290.1	183.1	232.9	705	537	1,242	235	179	414	134	186	90			
E09000019	Islington	Greater London	London	ENG	320.8	183.1	243.2	447	333	780	149	111	260	95	143	29			
E09000020	Kensington and Chelsea	Greater London	London	ENG	253.0	127.7	180.7	352	244	596	117	81	199	284	349	118			
E09000021	Kingston upon Thames	Greater London	London	ENG	250.2	173.5	209.3	419	413	832	140	138	277	205	268	252			
E09000022	Lambeth	Greater London	London	ENG	319.7	179.6	241.2	644	458	1,102	215	153	367	101	150	43			

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES												
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2020/22			Average number of annual CVD deaths 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N	
E09000023	Lewisham	Greater London	London	ENG	313.9	213.3	259.2	651	596	1,247	217	199	416	56	94	35	
E09000024	Merton	Greater London	London	ENG	253.6	154.3	196.7	461	406	867	154	135	289	248	313	205	
E09000025	Newham	Greater London	London	ENG	345.0	205.3	268.5	686	461	1,147	229	154	382	39	67	13	
E09000026	Redbridge	Greater London	London	ENG	278.0	157.3	212.6	767	568	1,335	256	189	445	193	254	153	
E09000027	Richmond upon Thames	Greater London	London	ENG	219.4	134.8	170.7	457	408	865	152	136	288	293	358	278	
E09000028	Southwark	Greater London	London	ENG	301.6	164.7	224.8	557	410	967	186	137	322	158	216	45	
E09000029	Sutton	Greater London	London	ENG	272.5	159.6	208.0	587	510	1,097	196	170	366	211	274	216	
E09000030	Tower Hamlets	Greater London	London	ENG	357.1	198.8	269.4	486	314	800	162	105	267	37	65	30	
E09000031	Waltham Forest	Greater London	London	ENG	287.6	192.7	237.3	605	504	1,109	202	168	370	115	164	44	
E09000032	Wandsworth	Greater London	London	ENG	241.0	168.1	201.2	520	509	1,029	173	170	343	235	300	164	
E09000033	Westminster	Greater London	London	ENG	247.9	151.4	195.4	448	348	796	149	116	265	252	317	134	
E08000001	Bolton	Greater Manchester	North West	ENG	320.7	205.8	259.7	1,108	889	1,997	369	296	666	55	93	42	
E08000002	Bury	Greater Manchester	North West	ENG	317.1	179.7	239.8	739	561	1,300	246	187	433	109	158	102	
E08000003	Manchester	Greater Manchester	North West	ENG	409.0	248.1	320.5	1,540	1,139	2,679	513	380	893	3	12	2	
E08000004	Oldham	Greater Manchester	North West	ENG	346.7	213.4	275.2	910	703	1,613	303	234	538	26	51	24	
E08000005	Rochdale	Greater Manchester	North West	ENG	375.1	219.5	288.5	907	692	1,599	302	231	533	13	32	17	
E08000006	Salford	Greater Manchester	North West	ENG	362.5	198.5	273.4	924	629	1,553	308	210	518	29	54	20	
E08000007	Stockport	Greater Manchester	North West	ENG	304.5	178.2	234.1	1,202	1,014	2,216	401	338	739	128	179	145	
E08000008	Tameside	Greater Manchester	North West	ENG	364.2	214.3	280.8	960	730	1,690	320	243	563	20	43	22	
E08000009	Trafford	Greater Manchester	North West	ENG	296.8	177.5	230.5	836	717	1,553	279	239	518	143	198	201	
E08000010	Wigan	Greater Manchester	North West	ENG	330.8	197.4	257.6	1,370	1,017	2,387	457	339	796	63	103	91	
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	250.7	185.3	215.7	549	519	1,068	183	173	356	180	240	234	
E07000085	East Hampshire	Hampshire	South East	ENG	234.4	154.8	189.9	460	441	901	153	147	300	262	327	266	
E07000086	Eastleigh	Hampshire	South East	ENG	251.9	155.9	199.1	467	400	867	156	133	289	245	310	270	
E07000087	Fareham	Hampshire	South East	ENG	249.6	177.1	208.6	475	501	976	158	167	325	207	270	280	
E07000088	Gosport	Hampshire	South East	ENG	296.2	200.2	243.0	341	327	668	114	109	223	96	144	121	
E07000089	Hart	Hampshire	South East	ENG	198.7	147.6	172.5	277	275	552	92	92	184	290	355	296	
E07000090	Havant	Hampshire	South East	ENG	296.9	161.9	221.0	606	472	1,078	202	157	359	170	228	124	
E07000091	New Forest	Hampshire	South East	ENG	251.3	161.0	201.6	906	872	1,778	302	291	593	232	297	230	
E06000044	Portsmouth	Hampshire	South East	ENG	336.2	208.1	264.9	696	619	1,315	232	206	438	42	73	54	
E07000092	Rushmoor	Hampshire	South East	ENG	289.4	185.7	229.9	283	248	531	94	83	177	146	201	186	
E06000045	Southampton	Hampshire	South East	ENG	310.1	207.3	254.8	736	660	1,396	245	220	465	67	108	55	
E07000093	Test Valley	Hampshire	South East	ENG	252.9	157.6	201.5	477	411	888	159	137	296	233	298	240	
E07000094	Winchester	Hampshire	South East	ENG	241.9	140.4	186.2	454	394	848	151	131	283	275	340	274	
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	289.0	201.1	242.4	941	880	1,821	314	293	607	97	146	129	
E07000095	Broxbourne	Hertfordshire	East of England	ENG	269.7	158.8	207.2	323	264	587	108	88	196	215	278	142	
E07000096	Dacorum	Hertfordshire	East of England	ENG	236.9	147.7	188.4	453	400	853	151	133	284	267	332	229	
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	251.8	161.7	203.0	479	421	900	160	140	300	226	291	288	
E07000098	Hertsmere	Hertfordshire	East of England	ENG	245.5	146.6	190.0	330	291	621	110	97	207	261	326	214	
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	257.1	158.2	202.2	460	414	874	153	138	291	230	295	254	
E07000240	St Albans	Hertfordshire	East of England	ENG	214.1	135.4	171.0	394	356	750	131	119	250	292	357	287	
E07000243	Stevenage	Hertfordshire	East of England	ENG	282.5	175.4	223.2	269	234	503	90	78	168	163	221	111	
E07000102	Three Rivers	Hertfordshire	East of England	ENG	217.3	126.6	167.8	258	212	470	86	71	157	294	359	273	
E07000103	Watford	Hertfordshire	East of England	ENG	264.9	157.2	203.1	240	201	441	80	67	147	225	290	185	
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	263.3	157.0	204.8	357	319	676	119	106	225	219	283	202	
E06000046	Isle of Wight	Isle of Wight	South East	ENG	378.2	274.3	323.3	989	1,032	2,021	330	344	674	2	10	78	
E07000105	Ashford	Kent	South East	ENG	236.0	168.5	201.0	405	385	790	135	128	263	236	301	143	
E07000106	Canterbury	Kent	South East	ENG	267.5	160.3	207.6	594	541	1,135	198	180	378	213	276	176	
E07000107	Dartford	Kent	South East	ENG	254.2	168.0	207.8	289	258	547	96	86	182	212	275	133	
E07000108	Dover	Kent	South East	ENG	289.2	188.5	235.4	519	462	981	173	154	327	122	171	101	

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			ALL AGES Total number of CVD deaths 2020/22			Average number of annual CVD deaths 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	272.1	202.6	237.0	484	503	987	161	168	329	116	165	83
E07000109	Gravesham	Kent	South East	ENG	298.8	173.8	231.5	381	294	675	127	98	225	142	195	109
E07000110	Maidstone	Kent	South East	ENG	259.8	151.6	200.2	587	470	1,057	196	157	352	241	306	174
E06000035	Medway	Kent	South East	ENG	308.5	178.9	237.7	936	715	1,651	312	238	550	113	162	92
E07000111	Sevenoaks	Kent	South East	ENG	232.8	149.0	186.0	413	387	800	138	129	267	276	341	239
E07000113	Swale	Kent	South East	ENG	330.1	178.3	243.2	606	436	1,042	202	145	347	94	142	64
E07000114	Thanet	Kent	South East	ENG	316.5	195.8	249.5	664	595	1,259	221	198	420	77	122	37
E07000115	Tonbridge and Malling	Kent	South East	ENG	278.9	153.1	208.7	477	358	835	159	119	278	206	269	224
E07000116	Tunbridge Wells	Kent	South East	ENG	249.7	169.1	205.9	395	395	790	132	132	263	217	281	256
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	351.9	223.6	281.6	551	426	977	184	142	326	18	41	15
E06000009	Blackpool	Lancashire	North West	ENG	389.7	222.4	302.4	793	566	1,359	264	189	453	6	20	1
E07000117	Burnley	Lancashire	North West	ENG	364.6	229.8	292.2	416	331	747	139	110	249	11	28	10
E07000118	Chorley	Lancashire	North West	ENG	312.8	202.5	253.7	492	399	891	164	133	297	70	112	180
E07000119	Fylde	Lancashire	North West	ENG	270.8	157.9	209.3	412	341	753	137	114	251	204	267	190
E07000120	Hyndburn	Lancashire	North West	ENG	338.9	222.7	278.8	347	282	629	116	94	210	22	47	19
E07000121	Lancaster	Lancashire	North West	ENG	357.0	190.3	264.7	696	512	1,208	232	171	403	43	74	108
E07000122	Pendle	Lancashire	North West	ENG	307.1	216.1	258.3	357	312	669	119	104	223	61	101	31
E07000123	Preston	Lancashire	North West	ENG	360.3	209.4	277.9	560	420	980	187	140	327	24	49	46
E07000124	Ribble Valley	Lancashire	North West	ENG	230.0	158.2	192.0	235	211	446	78	70	149	257	322	262
E07000125	Rossendale	Lancashire	North West	ENG	351.1	187.8	260.7	312	211	523	104	70	174	53	91	89
E07000126	South Ribble	Lancashire	North West	ENG	276.5	177.0	223.1	446	373	819	149	124	273	164	222	200
E07000127	West Lancashire	Lancashire	North West	ENG	348.7	221.2	279.0	574	498	1,072	191	166	357	21	46	169
E07000128	Wyre	Lancashire	North West	ENG	316.9	197.0	252.1	654	551	1,205	218	184	402	75	118	146
E07000129	Blaby	Leicestershire	East Midlands	ENG	236.5	158.3	193.9	335	294	629	112	98	210	255	320	264
E07000130	Charnwood	Leicestershire	East Midlands	ENG	288.0	171.5	224.8	665	535	1,200	222	178	400	157	215	231
E07000131	Harborough	Leicestershire	East Midlands	ENG	245.7	155.7	196.9	354	296	650	118	99	217	247	312	289
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	270.1	170.6	214.9	443	370	813	148	123	271	188	248	225
E06000016	Leicester	Leicestershire	East Midlands	ENG	350.5	243.8	295.9	1,097	946	2,043	366	315	681	9	25	23
E07000133	Melton	Leicestershire	East Midlands	ENG	295.3	184.8	233.6	228	194	422	76	65	141	132	183	237
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	292.9	194.2	240.9	400	334	734	133	111	245	103	152	209
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	280.9	185.6	228.5	244	237	481	81	79	160	153	209	233
E07000136	Boston	Lincolnshire	East Midlands	ENG	359.4	226.3	286.1	353	294	647	118	98	216	15	35	80
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	363.7	240.3	297.5	1,026	823	1,849	342	274	616	8	23	32
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	333.2	247.2	285.5	344	353	697	115	118	232	16	36	67
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	286.6	191.7	234.8	527	458	985	176	153	328	126	176	253
E07000140	South Holland	Lincolnshire	East Midlands	ENG	303.8	210.6	254.8	481	429	910	160	143	303	68	109	136
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	294.5	186.5	235.8	638	551	1,189	213	184	396	119	168	227
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	320.9	182.0	244.6	493	352	845	164	117	282	91	138	137
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	350.0	234.2	288.8	777	687	1,464	259	229	488	12	31	65
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	334.1	197.6	260.0	819	639	1,458	273	213	486	54	92	113
E08000011	Knowsley	Merseyside	North West	ENG	335.4	234.2	281.2	594	538	1,132	198	179	377	19	42	3
E08000012	Liverpool	Merseyside	North West	ENG	350.1	207.5	270.5	1,716	1,349	3,065	572	450	1,022	35	63	4
E08000014	Sefton	Merseyside	North West	ENG	305.0	187.4	239.5	1,304	1,168	2,472	435	389	824	110	159	86
E08000013	St. Helens	Merseyside	North West	ENG	336.9	194.5	258.6	835	616	1,451	278	205	484	60	98	39
E08000015	Wirral	Merseyside	North West	ENG	297.6	182.4	233.8	1,365	1,180	2,545	455	393	848	131	182	75
E07000143	Breckland	Norfolk	East of England	ENG	277.7	168.3	217.5	654	540	1,194	218	180	398	175	234	116
E07000144	Broadland	Norfolk	East of England	ENG	245.5	171.4	204.2	575	556	1,131	192	185	377	220	284	244
E07000145	Great Yarmouth	Norfolk	East of England	ENG	339.3	211.7	273.0	549	440	989	183	147	330	30	55	25
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	268.9	171.2	215.6	717	611	1,328	239	204	443	182	242	76
E07000147	North Norfolk	Norfolk	East of England	ENG	280.8	187.1	229.3	653	595	1,248	218	198	416	148	203	95

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES															
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2020/22			Average number of annual CVD deaths 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)				
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N				
E07000148	Norwich	Norfolk	East of England	ENG	314.9	218.6	263.0	467	463	930	156	154	310	47	80	60				
E07000149	South Norfolk	Norfolk	East of England	ENG	246.2	167.4	203.0	572	538	1,110	191	179	370	227	292	219				
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	285.8	180.7	229.6	1,242	1,012	2,254	414	337	751	147	202	148				
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	277.2	167.2	217.0	1,351	1,061	2,412	450	354	804	177	236	178				
E06000057	Northumberland	Northumberland	North East	ENG	294.9	175.7	228.6	1,512	1,208	2,720	504	403	907	151	207	122				
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	290.4	205.7	243.4	474	438	912	158	146	304	93	141	59				
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	297.7	196.3	243.9	521	436	957	174	145	319	92	140	105				
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	292.5	183.6	232.1	470	403	873	157	134	291	140	192	213				
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	289.5	188.8	235.7	478	435	913	159	145	304	121	170	199				
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	320.5	197.5	254.5	453	372	825	151	124	275	69	110	56				
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	301.7	186.0	240.9	557	444	1,001	186	148	334	106	155	140				
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	392.8	230.1	303.0	1,055	837	1,892	352	279	631	5	19	11				
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	245.9	165.0	202.6	427	430	857	142	143	286	228	293	294				
E07000177	Cherwell	Oxfordshire	South East	ENG	237.2	145.7	186.9	454	382	836	151	127	279	270	335	211				
E07000178	Oxford	Oxfordshire	South East	ENG	229.9	149.2	184.7	306	287	593	102	96	198	278	343	183				
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	224.9	132.4	173.3	468	388	856	156	129	285	289	354	284				
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	229.6	137.4	180.3	442	368	810	147	123	270	285	350	286				
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	249.5	138.6	187.1	423	340	763	141	113	254	269	334	282				
E06000017	Rutland	Rutland	East Midlands	ENG	255.0	152.4	200.1	181	147	328	60	49	109	242	307	279				
E06000051	Shropshire	Shropshire	West Midlands	ENG	262.5	165.2	211.0	1,451	1,234	2,685	484	411	895	199	261	157				
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	305.8	200.9	249.1	660	544	1,204	220	181	401	78	123	94				
E06000022	Bath and North East Somerset	Somerset	South West	ENG	245.7	146.6	191.0	634	550	1,184	211	183	395	259	324	257				
E06000024	North Somerset	Somerset	South West	ENG	223.5	153.8	186.8	777	760	1,537	259	253	512	272	337	208				
E06000066	Somerset	Somerset	South West	ENG	274.8	166.1	215.1	2,597	2,211	4,808	866	737	1,603	186	246	139				
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	303.8	218.9	259.1	387	370	757	129	123	252	58	96	120				
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	295.8	188.5	237.3	454	396	850	151	132	283	114	163	150				
E07000194	Lichfield	Staffordshire	West Midlands	ENG	255.7	171.2	208.4	417	367	784	139	122	261	208	271	235				
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	305.3	187.3	240.9	540	453	993	180	151	331	105	154	141				
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	302.5	177.3	235.0	551	439	990	184	146	330	124	173	220				
E07000197	Stafford	Staffordshire	West Midlands	ENG	265.8	155.8	207.3	568	434	1,002	189	145	334	214	277	222				
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	306.6	187.5	240.9	495	407	902	165	136	301	104	153	195				
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	343.2	217.7	278.2	1,036	848	1,884	345	283	628	23	48	12				
E07000199	Tamworth	Staffordshire	West Midlands	ENG	278.3	187.3	228.8	260	227	487	87	76	162	150	206	119				
E07000200	Babergh	Suffolk	East of England	ENG	242.1	139.5	184.4	388	315	703	129	105	234	279	344	203				
E07000244	East Suffolk	Suffolk	East of England	ENG	274.6	179.4	223.0	1,269	1,130	2,399	423	377	800	165	223	151				
E07000202	Ipswich	Suffolk	East of England	ENG	259.4	186.1	218.8	419	411	830	140	137	277	173	231	69				
E07000203	Mid Suffolk	Suffolk	East of England	ENG	253.2	165.2	204.1	426	370	796	142	123	265	221	285	221				
E07000245	West Suffolk	Suffolk	East of England	ENG	267.8	173.3	216.0	673	604	1,277	224	201	426	179	239	168				
E07000207	Elmbridge	Surrey	South East	ENG	243.4	164.3	199.7	432	464	896	144	155	299	244	309	291				
E07000208	Epsom and Ewell	Surrey	South East	ENG	226.3	141.4	179.6	228	207	435	76	69	145	287	352	281				
E07000209	Guildford	Surrey	South East	ENG	234.3	150.8	186.9	410	385	795	137	128	265	271	336	277				
E07000210	Mole Valley	Surrey	South East	ENG	239.1	145.1	186.7	348	310	658	116	103	219	273	338	275				
E07000211	Reigate and Banstead	Surrey	South East	ENG	251.8	157.2	200.2	476	451	927	159	150	309	240	305	260				
E07000212	Runnymede	Surrey	South East	ENG	286.4	195.5	237.7	313	313	626	104	104	209	112	161	246				
E07000213	Spelthorne	Surrey	South East	ENG	271.3	159.6	211.1	359	299	658	120	100	219	198	260	192				
E07000214	Surrey Heath	Surrey	South East	ENG	239.0	160.2	195.7	298	301	599	99	100	200	250	315	290				
E07000215	Tandridge	Surrey	South East	ENG	250.2	144.3	191.9	324	268	592	108	89	197	258	323	242				
E07000216	Waverley	Surrey	South East	ENG	239.8	145.0	186.7	478	458	936	159	153	312	274	339	293				
E07000217	Woking	Surrey	South East	ENG	242.0	181.0	210.2	304	321	625	101	107	208	202	265	263				
E08000037	Gateshead	Tyne & Wear	North East	ENG	314.2	194.8	249.1	828	702	1,530	276	234	510	79	124	53				

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	ALL AGES												
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2020/22			Average number of annual CVD deaths 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)	
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N	
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	306.8	194.4	245.7	942	810	1,752	314	270	584	87	134	70	
E08000022	North Tyneside	Tyne & Wear	North East	ENG	322.9	204.0	256.1	884	793	1,677	295	264	559	65	106	123	
E08000023	South Tyneside	Tyne & Wear	North East	ENG	311.9	212.6	259.2	632	588	1,220	211	196	407	57	95	26	
E08000024	Sunderland	Tyne & Wear	North East	ENG	304.7	172.5	231.5	1,116	835	1,951	372	278	650	141	194	33	
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	316.7	179.5	241.5	296	219	515	99	73	172	99	148	147	
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	339.5	203.1	264.4	571	446	1,017	190	149	339	44	75	98	
E07000220	Rugby	Warwickshire	West Midlands	ENG	297.7	161.3	223.5	439	306	745	146	102	248	161	219	212	
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	237.2	149.0	187.6	537	475	1,012	179	158	337	268	333	245	
E07000222	Warwick	Warwickshire	West Midlands	ENG	245.7	168.2	203.8	475	463	938	158	154	313	222	286	249	
E08000025	Birmingham	West Midlands	West Midlands	ENG	340.1	200.5	263.8	3,663	2,919	6,582	1,221	973	2,194	46	78	7	
E08000026	Coventry	West Midlands	West Midlands	ENG	328.7	200.7	261.5	1,179	969	2,148	393	323	716	50	83	72	
E08000027	Dudley	West Midlands	West Midlands	ENG	337.4	206.2	264.4	1,468	1,248	2,716	489	416	905	45	76	99	
E08000028	Sandwell	West Midlands	West Midlands	ENG	369.6	228.9	293.8	1,282	1,069	2,351	427	356	784	10	27	6	
E08000029	Solihull	West Midlands	West Midlands	ENG	266.9	156.8	205.2	833	706	1,539	278	235	513	218	282	196	
E08000030	Walsall	West Midlands	West Midlands	ENG	342.4	216.3	274.4	1,173	989	2,162	391	330	721	27	52	28	
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	367.6	240.3	298.0	1,126	997	2,123	375	332	708	7	22	18	
E07000223	Adur	West Sussex	South East	ENG	277.3	176.2	219.1	274	263	537	91	88	179	172	230	154	
E07000224	Arun	West Sussex	South East	ENG	271.5	168.2	215.3	834	795	1,629	278	265	543	185	245	144	
E07000225	Chichester	West Sussex	South East	ENG	261.3	149.5	198.2	592	505	1,097	197	168	366	246	311	204	
E07000226	Crawley	West Sussex	South East	ENG	278.8	167.2	217.4	312	260	572	104	87	191	176	235	127	
E07000227	Horsham	West Sussex	South East	ENG	223.9	146.5	180.9	509	486	995	170	162	332	283	348	271	
E07000228	Mid Sussex	West Sussex	South East	ENG	253.3	149.7	194.5	539	485	1,024	180	162	341	254	319	292	
E07000229	Worthing	West Sussex	South East	ENG	276.8	172.7	217.8	469	467	936	156	156	312	174	232	161	
E06000030	Swindon	Wiltshire	South West	ENG	317.4	190.5	247.8	816	640	1,456	272	213	485	80	126	162	
E06000054	Wiltshire	Wiltshire	South West	ENG	275.2	177.9	222.4	2,057	1,882	3,939	686	627	1,313	168	226	223	
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	273.7	166.0	213.8	426	376	802	142	125	267	190	250	255	
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	256.1	171.1	210.4	387	362	749	129	121	250	201	263	181	
E07000236	Redditch	Worcestershire	West Midlands	ENG	295.3	188.9	236.0	296	244	540	99	81	180	118	167	114	
E07000237	Worcester	Worcestershire	West Midlands	ENG	303.5	188.6	241.1	372	318	690	124	106	230	102	151	149	
E07000238	Wychavon	Worcestershire	West Midlands	ENG	268.6	164.4	212.2	589	487	1,076	196	162	359	195	256	179	
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	293.3	193.8	240.5	488	422	910	163	141	303	107	156	107	
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	297.0	195.3	241.7	1,739	1,552	3,291	580	517	1,097	98	147	207	
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	406.5	243.5	317.6	1,112	864	1,976	371	288	659	4	13	9	
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	329.2	224.4	271.8	526	479	1,005	175	160	335	33	60	16	
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	298.7	179.2	233.9	622	484	1,106	207	161	369	130	181	62	
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	276.4	182.4	225.4	2,783	2,543	5,326	928	848	1,775	156	214	210	
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	298.2	185.4	234.4	757	708	1,465	252	236	488	127	177	259	
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	343.2	230.2	282.0	1,077	925	2,002	359	308	667	17	40	38	
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	335.4	217.3	271.8	1,354	1,138	2,492	451	379	831	32	59	40	
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	327.3	219.2	269.9	1,147	976	2,123	382	325	708	36	64	49	
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	304.4	197.2	246.2	1,966	1,752	3,718	655	584	1,239	85	132	88	
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	362.5	225.2	288.0	2,064	1,710	3,774	688	570	1,258	14	33	21	
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	331.6	202.7	261.6	848	701	1,549	283	234	516	49	82	73	
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	319.1	219.4	265.4	1,628	1,491	3,119	543	497	1,040	40	71	82	
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	297.7	181.1	233.3	2,552	2,154	4,706	851	718	1,569	133	184	85	
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	316.9	189.2	246.8	1,383	1,072	2,455	461	357	818	83	130	61	
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	273.2	171.6	216.4	445	387	832	148	129	277	7	237	10	
N09000011	Ards and North Down		Northern Ireland	NI	249.0	171.4	206.9	562	539	1,101	187	180	367	11	279	9	
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	271.2	169.8	213.1	604	529	1,133	201	176	378	8	251	7	
N09000003	Belfast		Northern Ireland	NI	314.5	198.0	248.7	1,068	1,010	2,078	356	337	693	1	125	4	

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			ALL AGES Total number of CVD deaths 2020/22			Average number of annual CVD deaths 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
N09000004	Causeway Coast and Glens		Northern Ireland	NI	283.3	189.4	231.8	495	453	948	165	151	316	6	193	5
N09000005	Derry City and Strabane		Northern Ireland	NI	298.3	183.2	234.3	451	343	794	150	114	265	4	178	1
N09000006	Fermanagh and Omagh		Northern Ireland	NI	281.7	193.9	235.0	386	352	738	129	117	246	3	174	2
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	255.7	176.0	210.3	431	436	867	144	145	289	10	264	11
N09000008	Mid and East Antrim		Northern Ireland	NI	288.1	189.4	233.0	501	464	965	167	155	322	5	185	8
N09000009	Mid Ulster		Northern Ireland	NI	285.0	213.6	247.0	416	421	837	139	140	279	2	129	6
N09000010	Newry, Mourne and Down		Northern Ireland	NI	269.0	167.6	212.1	516	441	957	172	147	319	9	257	3
S12000033	Aberdeen City		Scotland	SCO	339.6	229.7	279.7	842	786	1,628	281	262	543	20	44	26
S12000034	Aberdeenshire		Scotland	SCO	319.7	225.4	268.5	1,105	996	2,101	368	332	700	22	68	30
S12000041	Angus		Scotland	SCO	304.5	236.3	265.9	551	581	1,132	184	194	377	24	70	20
S12000035	Argyll and Bute		Scotland	SCO	332.4	231.0	279.5	488	434	922	163	145	307	21	45	19
S12000036	City of Edinburgh		Scotland	SCO	333.0	209.2	264.2	1,806	1,631	3,437	602	544	1,146	25	77	29
S12000005	Clackmannanshire		Scotland	SCO	396.3	299.6	346.8	270	247	517	90	82	172	3	4	8
S12000006	Dumfries and Galloway		Scotland	SCO	362.6	236.6	295.5	912	773	1,685	304	258	562	15	26	12
S12000042	Dundee City		Scotland	SCO	394.0	250.6	315.4	694	621	1,315	231	207	438	9	14	6
S12000008	East Ayrshire		Scotland	SCO	442.6	286.0	358.1	715	588	1,303	238	196	434	1	1	7
S12000045	East Dunbartonshire		Scotland	SCO	267.4	197.3	229.1	448	473	921	149	158	307	31	205	31
S12000010	East Lothian		Scotland	SCO	298.3	198.8	242.5	444	404	848	148	135	283	30	145	22
S12000011	East Renfrewshire		Scotland	SCO	270.2	190.3	226.2	361	383	744	120	128	248	32	212	32
S12000014	Falkirk		Scotland	SCO	391.8	265.1	322.0	763	679	1,442	254	226	481	8	11	16
S12000047	Fife		Scotland	SCO	370.2	243.2	300.8	1,870	1,641	3,511	623	547	1,170	13	21	17
S12000049	Glasgow City		Scotland	SCO	432.4	287.0	353.4	2,478	2,271	4,749	826	757	1,583	2	3	2
S12000017	Highland		Scotland	SCO	350.3	228.4	284.3	1,207	1,047	2,254	402	349	751	17	37	18
S12000018	Inverclyde		Scotland	SCO	385.6	246.7	304.9	405	384	789	135	128	263	11	17	4
S12000019	Midlothian		Scotland	SCO	321.9	217.5	263.7	358	318	676	119	106	225	26	79	14
S12000020	Moray		Scotland	SCO	334.2	238.3	283.4	457	428	885	152	143	295	19	39	23
S12000013	Na h-Eileanan Siar		Scotland	SCO	380.0	272.3	325.4	169	170	339	56	57	113	7	9	10
S12000021	North Ayrshire		Scotland	SCO	388.1	273.6	325.8	747	701	1,448	249	234	483	6	8	3
S12000050	North Lanarkshire		Scotland	SCO	416.6	265.4	332.7	1,595	1,321	2,916	532	440	972	4	6	5
S12000023	Orkney Islands		Scotland	SCO	311.1	192.1	244.2	107	90	197	36	30	66	29	139	24
S12000048	Perth and Kinross		Scotland	SCO	307.2	215.7	258.4	750	706	1,456	250	235	485	27	100	28
S12000038	Renfrewshire		Scotland	SCO	374.7	246.2	304.7	864	765	1,629	288	255	543	12	18	9
S12000026	Scottish Borders		Scotland	SCO	294.0	214.9	253.9	580	542	1,122	193	181	374	28	111	21
S12000027	Shetland Islands		Scotland	SCO	318.7	217.1	268.0	104	87	191	35	29	64	23	69	25
S12000028	South Ayrshire		Scotland	SCO	374.4	251.6	308.7	701	650	1,351	234	217	450	10	15	13
S12000029	South Lanarkshire		Scotland	SCO	374.9	237.4	297.1	1,530	1,329	2,859	510	443	953	14	24	11
S12000030	Stirling		Scotland	SCO	340.7	237.5	283.5	411	387	798	137	129	266	18	38	27
S12000039	West Dunbartonshire		Scotland	SCO	398.6	275.2	331.2	432	405	837	144	135	279	5	7	1
S12000040	West Lothian		Scotland	SCO	336.7	251.9	291.4	662	615	1,277	221	205	426	16	29	15
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	324.3	191.6	251.3	683	572	1,255	228	191	418	16	119	17
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	345.6	205.1	271.6	551	430	981	184	143	327	7	62	9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	311.0	208.6	261.2	685	586	1,271	228	195	424	9	85	20
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	327.4	218.1	272.2	615	519	1,134	205	173	378	5	56	14
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	322.4	209.7	260.8	960	841	1,801	320	280	600	12	90	8
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	314.2	194.7	250.5	386	312	698	129	104	233	17	120	16
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	326.0	205.2	261.1	686	583	1,269	229	194	423	10	86	12
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	407.8	289.8	344.0	358	322	680	119	107	227	1	5	1
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	384.3	245.7	308.1	875	709	1,584	292	236	528	2	16	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	271.4	171.5	217.5	449	388	837	150	129	279	21	233	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	358.1	226.8	286.9	672	557	1,229	224	186	410	4	34	5

Table 1.25 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised CVD death rates per 100,000 - Annual Average (3-Year)			Total number of CVD deaths 2020/22			Average number of annual CVD deaths 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	316.0	219.6	261.5	397	369	766	132	123	255	8	84	7
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	329.5	191.6	257.6	611	515	1,126	204	172	375	14	104	18
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	307.2	207.6	253.7	375	329	704	125	110	235	15	113	15
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	272.5	188.5	230.7	553	496	1,049	184	165	350	19	197	10
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	360.4	219.7	291.3	272	210	482	91	70	161	3	30	2
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	310.1	215.2	261.0	960	843	1,803	320	281	601	11	88	4
W06000023	Powys	Powys	Wales / Cymru	WAL	293.3	167.9	231.3	723	562	1,285	241	187	428	18	196	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	296.2	170.4	226.5	1,065	853	1,918	355	284	639	20	211	11
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	268.8	146.5	203.2	502	398	900	167	133	300	22	288	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	341.6	216.1	272.1	669	562	1,231	223	187	410	6	58	3
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	327.7	198.3	258.4	1,086	891	1,977	362	297	659	13	99	13

Notes: ICD-10 codes I00-I99. Directly age-standardised using the 2013 European Standard Population. Some of the data for England and Wales have been suppressed.
Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area
UK local authorities correct April 2024
* indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)

Citation: BHF (2024) Analysis of official UK mortality data

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

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

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

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

Scotland: Mortality rates calculated in partnership with NRS (National Records of Scotland)

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

England: Average IMD ranks taken from English Indices of Deprivation

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

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

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

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

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

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

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

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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reissued 27 Aug 2024 - error in Belfast ASDR / ranking					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2020/22			Average number of annual prem CVD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E06000055	Bedford	Bedfordshire	East of England	ENG	100.7	46.5	72.9	225	109	334	75	36	111	143	190	152
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	82.4	37.4	59.2	313	151	464	104	50	155	228	292	247
E06000032	Luton	Bedfordshire	East of England	ENG	131.5	60.6	96.2	293	130	423	98	43	141	38	60	51
E06000036	Bracknell Forest	Berkshire	South East	ENG	90.2	42.4	65.5	133	64	197	44	21	66	184	239	265
E06000038	Reading	Berkshire	South East	ENG	131.0	46.6	88.5	221	79	300	74	26	100	67	96	132
E06000039	Slough	Berkshire	South East	ENG	142.0	66.8	104.5	205	97	302	68	32	101	24	37	74
E06000037	West Berkshire	Berkshire	South East	ENG	77.1	37.6	56.9	170	87	257	57	29	86	240	304	272
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	71.5	30.6	50.5	140	63	203	47	21	68	267	332	285
E06000041	Wokingham	Berkshire	South East	ENG	73.4	35.3	53.9	158	80	238	53	27	79	253	318	295
E06000023	Bristol, City of	Bristol	South West	ENG	118.0	47.7	82.4	549	228	777	183	76	259	95	129	77
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	79.7	28.3	53.2	566	213	779	189	71	260	257	322	268
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	84.8	46.1	64.8	272	157	429	91	52	143	185	241	165
E07000008	Cambridge	Cambridgeshire	East of England	ENG	89.2	37.9	63.0	111	48	159	37	16	53	200	259	198
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	62.0	36.2	48.8	76	47	123	25	16	41	274	339	250
E07000010	Fenland	Cambridgeshire	East of England	ENG	119.0	49.4	83.2	177	78	255	59	26	85	92	125	50
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	87.6	37.5	62.0	220	98	318	73	33	106	211	270	236
E06000031	Peterborough	Cambridgeshire	East of England	ENG	132.2	46.0	87.7	302	110	412	101	37	137	72	102	52
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	71.2	23.3	46.3	151	53	204	50	18	68	290	355	283
E06000049	Cheshire East	Cheshire	North West	ENG	101.8	42.4	71.3	592	262	854	197	87	285	152	204	217
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	104.1	44.1	73.3	527	238	765	176	79	255	140	186	170
E06000006	Halton	Cheshire	North West	ENG	143.9	71.4	106.5	255	136	391	85	45	130	22	33	41
E06000007	Warrington	Cheshire	North West	ENG	123.0	52.7	87.3	352	156	508	117	52	169	73	103	163
E06000052	Cornwall	Cornwall	South West	ENG	99.2	42.3	69.6	889	418	1,307	296	139	436	158	212	79
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232
E06000047	County Durham	County Durham	North East	ENG	122.9	59.8	90.6	930	480	1,410	310	160	470	59	86	68
E06000005	Darlington	County Durham	North East	ENG	117.1	46.3	80.8	176	74	250	59	25	83	102	138	100
E06000001	Hartlepool	County Durham	North East	ENG	121.5	62.0	91.2	160	83	243	53	28	81	55	82	27
E06000004	Stockton-on-Tees	County Durham	North East	ENG	101.7	47.3	73.8	273	133	406	91	44	135	134	180	112
E06000063	Cumberland	Cumbria	North West	ENG	117.9	52.5	84.7	501	225	726	167	75	242	84	116	103
E06000064	Westmorland and Furness	Cumbria	North West	ENG	100.1	40.3	69.6	369	156	525	123	52	175	159	213	160
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	106.2	36.7	70.9	205	75	280	68	25	93	154	206	158
E07000033	Bolsover	Derbyshire	East Midlands	ENG	122.1	59.0	90.1	140	70	210	47	23	70	62	90	57
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	107.0	56.2	81.1	163	91	254	54	30	85	100	136	81
E06000015	Derby	Derbyshire	East Midlands	ENG	132.5	51.0	91.1	400	160	560	133	53	187	57	84	84
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	87.7	36.4	61.5	110	47	157	37	20	52	214	275	248
E07000036	Erewash	Derbyshire	East Midlands	ENG	103.0	57.3	79.6	165	95	260	55	32	87	107	146	159
E07000037	High Peak	Derbyshire	East Midlands	ENG	112.8	47.4	79.8	160	69	229	53	23	76	106	145	193
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	98.4	46.3	71.6	156	79	235	52	26	78	149	200	166
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	111.3	36.3	72.9	161	56	217	54	19	72	144	191	215
E07000040	East Devon	Devon	South West	ENG	66.4	32.4	48.3	160	86	246	53	29	82	278	343	226
E07000041	Exeter	Devon	South West	ENG	103.7	33.2	67.0	147	51	198	49	17	66	176	231	182
E07000042	Mid Devon	Devon	South West	ENG	63.8	32.9	47.9	82	44	126	27	18	42	282	347	155
E07000043	North Devon	Devon	South West	ENG	103.2	44.1	72.7	158	72	230	53	24	77	146	193	117
E06000026	Plymouth	Devon	South West	ENG	116.3	55.6	85.1	388	196	584	129	65	195	81	112	71
E07000044	South Hams	Devon	South West	ENG	62.2	28.3	44.5	97	44	141	32	15	47	292	357	206
E07000045	Teignbridge	Devon	South West	ENG	91.1	36.7	62.6	201	90	291	67	30	97	203	262	175
E06000027	Torbay	Devon	South West	ENG	116.8	40.2	77.6	255	95	350	85	32	117	114	155	48
E07000046	Torridge	Devon	South West	ENG	75.8	50.0	62.3	86	62	148	29	21	49	206	265	66
E07000047	West Devon	Devon	South West	ENG	88.4	31.0	58.9	86	37	123	29	15	41	230	294	130

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2020/22			Average number of annual prem CVD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	99.7	39.6	68.6	529	227	756	176	76	252	166	220	156
E06000059	Dorset	Dorset	South West	ENG	77.5	33.2	54.4	500	236	736	167	79	245	251	316	187
E06000043	Brighton and Hove	East Sussex	South East	ENG	105.6	37.7	71.4	334	116	450	111	39	150	151	203	131
E07000061	Eastbourne	East Sussex	South East	ENG	88.7	45.3	65.6	127	72	199	42	24	66	182	237	104
E07000062	Hastings	East Sussex	South East	ENG	142.5	61.0	100.5	184	84	268	61	28	89	31	51	14
E07000063	Lewes	East Sussex	South East	ENG	87.9	27.8	56.4	136	49	185	45	16	62	245	309	184
E07000064	Rother	East Sussex	South East	ENG	72.2	34.2	52.1	120	64	184	40	21	61	262	327	126
E07000065	Wealden	East Sussex	South East	ENG	76.1	28.6	51.1	193	81	274	64	27	91	266	331	238
E07000066	Basildon	Essex	East of England	ENG	100.5	42.3	70.0	225	104	329	75	35	110	156	209	106
E07000067	Braintree	Essex	East of England	ENG	86.0	43.8	64.2	186	101	287	62	34	96	191	248	194
E07000068	Brentwood	Essex	East of England	ENG	86.9	31.4	58.2	86	34	120	29	11	40	233	297	269
E07000069	Castle Point	Essex	East of England	ENG	97.0	38.7	66.3	126	58	184	42	19	61	179	234	172
E07000070	Chelmsford	Essex	East of England	ENG	83.7	38.6	60.6	196	97	293	65	32	98	221	284	241
E07000071	Colchester	Essex	East of England	ENG	82.5	42.6	61.8	193	107	300	64	36	100	213	273	173
E07000072	Epping Forest	Essex	East of England	ENG	89.8	31.5	59.4	157	60	217	52	20	72	226	290	191
E07000073	Harlow	Essex	East of England	ENG	123.0	58.4	89.9	128	62	190	43	21	63	64	92	97
E07000074	Maldon	Essex	East of England	ENG	71.1	31.0	50.5	76	36	112	25	12	37	268	333	197
E07000075	Rochford	Essex	East of England	ENG	85.8	32.4	58.0	107	44	151	36	15	50	235	299	267
E06000033	Southend-on-Sea	Essex	East of England	ENG	118.4	52.0	84.0	274	129	403	91	43	134	88	121	115
E07000076	Tendring	Essex	East of England	ENG	114.6	57.0	84.5	279	160	439	93	53	146	85	117	34
E06000034	Thurrock	Essex	East of England	ENG	116.3	57.7	86.3	219	111	330	73	37	110	78	108	110
E07000077	Uttlesford	Essex	East of England	ENG	68.7	26.5	47.2	88	36	124	29	15	41	287	352	276
E07000078	Cheltenham	Gloucestershire	South West	ENG	106.7	44.3	74.6	159	70	229	53	23	76	129	173	228
E07000079	Cotswold	Gloucestershire	South West	ENG	76.8	29.4	52.1	109	45	154	36	20	51	261	326	258
E07000080	Forest of Dean	Gloucestershire	South West	ENG	97.5	41.8	68.9	133	62	195	44	21	65	164	218	135
E07000081	Gloucester	Gloucestershire	South West	ENG	129.3	55.7	91.7	205	93	298	68	31	99	52	78	128
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	82.3	32.5	56.7	296	125	421	99	42	140	242	306	251
E07000082	Stroud	Gloucestershire	South West	ENG	82.1	38.4	59.6	152	76	228	51	25	76	225	289	261
E07000083	Tewkesbury	Gloucestershire	South West	ENG	99.5	34.4	65.7	134	49	183	45	16	61	181	236	243
E09000002	Barking and Dagenham	Greater London	London	ENG	179.6	72.9	123.7	311	134	445	104	45	148	3	5	5
E09000003	Barnet	Greater London	London	ENG	86.0	34.4	58.9	355	152	507	118	51	169	229	293	171
E09000004	Bexley	Greater London	London	ENG	93.3	44.5	67.9	268	139	407	89	46	136	170	225	177
E09000005	Brent	Greater London	London	ENG	130.1	43.3	84.7	432	154	586	144	51	195	83	115	47
E09000006	Bromley	Greater London	London	ENG	89.2	37.6	62.2	355	164	519	118	55	173	207	266	218
E09000007	Camden	Greater London	London	ENG	107.3	42.7	72.8	204	97	301	68	32	100	145	192	125
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189
E09000008	Croydon	Greater London	London	ENG	112.1	48.9	78.9	473	221	694	158	74	231	110	149	96
E09000009	Ealing	Greater London	London	ENG	116.5	38.0	76.0	435	149	584	145	50	195	118	162	87
E09000010	Enfield	Greater London	London	ENG	107.7	45.1	74.7	376	169	545	125	56	182	127	171	58
E09000011	Greenwich	Greater London	London	ENG	123.4	59.5	90.3	325	163	488	108	54	163	61	89	63
E09000012	Hackney	Greater London	London	ENG	152.0	53.3	99.5	308	124	432	103	41	144	33	54	8
E09000013	Hammersmith and Fulham	Greater London	London	ENG	109.1	54.2	79.5	165	97	262	55	32	87	109	148	93
E09000014	Haringey	Greater London	London	ENG	135.2	50.3	89.8	337	141	478	112	47	159	65	93	36
E09000015	Harrow	Greater London	London	ENG	82.1	28.8	54.2	235	90	325	78	30	108	252	317	188
E09000016	Havering	Greater London	London	ENG	90.5	40.4	64.4	284	137	421	95	46	140	190	247	167
E09000017	Hillingdon	Greater London	London	ENG	113.4	36.9	74.5	363	120	483	121	40	161	130	175	138
E09000018	Hounslow	Greater London	London	ENG	109.2	44.2	75.9	318	129	447	106	43	149	119	163	90
E09000019	Islington	Greater London	London	ENG	120.6	45.5	81.3	216	88	304	72	29	101	98	134	29
E09000020	Kensington and Chelsea	Greater London	London	ENG	92.4	28.7	57.9	145	51	196	48	17	65	236	300	118

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2020/22			Average number of annual prem CVD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E09000021	Kingston upon Thames	Greater London	London	ENG	75.8	32.2	53.2	139	62	201	46	21	67	256	321	252
E09000022	Lambeth	Greater London	London	ENG	128.4	42.5	83.5	341	123	464	114	41	155	91	124	43
E09000023	Lewisham	Greater London	London	ENG	131.5	57.0	91.8	331	166	497	110	55	166	51	77	35
E09000024	Merton	Greater London	London	ENG	83.0	30.8	55.6	178	71	249	59	24	83	249	313	205
E09000025	Newham	Greater London	London	ENG	145.0	56.7	99.1	399	163	562	133	54	187	35	56	13
E09000026	Redbridge	Greater London	London	ENG	110.5	41.8	75.2	337	132	469	112	44	156	123	167	153
E09000027	Richmond upon Thames	Greater London	London	ENG	64.9	31.3	47.3	150	79	229	50	26	76	284	349	278
E09000028	Southwark	Greater London	London	ENG	126.3	49.5	86.1	306	132	438	102	44	146	79	110	45
E09000029	Sutton	Greater London	London	ENG	91.4	38.6	63.9	217	98	315	72	33	105	195	253	216
E09000030	Tower Hamlets	Greater London	London	ENG	147.9	54.4	99.7	266	96	362	89	32	121	32	53	30
E09000031	Waltham Forest	Greater London	London	ENG	108.7	53.1	79.5	276	139	415	92	46	138	108	147	44
E09000032	Wandsworth	Greater London	London	ENG	89.4	36.4	61.1	224	103	327	75	34	109	216	278	164
E09000033	Westminster	Greater London	London	ENG	94.6	37.1	64.7	192	83	275	64	28	92	187	243	134
E08000001	Bolton	Greater Manchester	North West	ENG	149.7	69.3	108.9	552	263	815	184	88	272	16	25	42
E08000002	Bury	Greater Manchester	North West	ENG	123.3	58.6	90.1	308	155	463	103	52	154	63	91	102
E08000003	Manchester	Greater Manchester	North West	ENG	170.0	79.9	125.3	814	357	1,171	271	119	390	2	3	2
E08000004	Oldham	Greater Manchester	North West	ENG	149.1	67.2	107.3	422	198	620	141	66	207	20	31	24
E08000005	Rochdale	Greater Manchester	North West	ENG	164.9	69.8	116.3	453	201	654	151	67	218	8	16	17
E08000006	Salford	Greater Manchester	North West	ENG	156.3	59.9	108.0	439	167	606	146	56	202	18	28	20
E08000007	Stockport	Greater Manchester	North West	ENG	110.6	42.3	75.5	431	177	608	144	59	203	122	166	145
E08000008	Tameside	Greater Manchester	North West	ENG	140.6	63.5	101.4	423	197	620	141	66	207	27	45	22
E08000009	Trafford	Greater Manchester	North West	ENG	107.9	41.7	73.9	310	128	438	103	43	146	133	179	201
E08000010	Wigan	Greater Manchester	North West	ENG	129.6	61.1	94.8	584	287	871	195	96	290	42	66	91
E07000004	Basingstoke and Deane	Hampshire	South East	ENG	78.6	46.4	62.2	185	115	300	62	38	100	208	267	234
E07000085	East Hampshire	Hampshire	South East	ENG	58.2	24.2	40.6	109	49	158	36	16	53	293	358	266
E07000086	Eastleigh	Hampshire	South East	ENG	76.7	31.8	53.2	136	61	197	45	20	66	255	320	270
E07000087	Fareham	Hampshire	South East	ENG	68.7	36.3	51.8	118	67	185	39	22	62	264	329	280
E07000088	Gosport	Hampshire	South East	ENG	99.3	48.8	73.2	115	60	175	38	20	58	141	187	121
E07000089	Hart	Hampshire	South East	ENG	55.3	26.7	40.4	71	37	108	24	12	36	294	359	296
E07000090	Havant	Hampshire	South East	ENG	96.7	35.1	64.7	180	68	248	60	23	83	186	242	124
E07000091	New Forest	Hampshire	South East	ENG	71.4	27.6	48.5	206	88	294	69	29	98	277	342	230
E06000044	Portsmouth	Hampshire	South East	ENG	117.9	54.9	85.8	271	130	401	90	43	134	80	111	54
E07000092	Rushmoor	Hampshire	South East	ENG	91.7	59.6	74.8	102	72	174	34	24	58	126	170	186
E06000045	Southampton	Hampshire	South East	ENG	117.2	58.9	88.0	308	153	461	103	51	154	69	99	55
E07000093	Test Valley	Hampshire	South East	ENG	85.8	30.0	57.2	156	59	215	52	20	72	238	302	240
E07000094	Winchester	Hampshire	South East	ENG	73.8	21.5	46.8	125	39	164	42	15	55	288	353	274
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	95.1	45.7	69.7	285	143	428	95	48	143	157	210	129
E07000095	Broxbourne	Hertfordshire	East of England	ENG	94.4	37.0	63.9	108	48	156	36	16	52	196	254	142
E07000096	Dacorum	Hertfordshire	East of England	ENG	92.4	33.6	62.0	176	68	244	59	23	81	210	269	229
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	83.5	34.0	58.1	163	70	233	54	23	78	234	298	288
E07000098	Hertsmere	Hertfordshire	East of England	ENG	83.3	33.9	57.2	108	48	156	36	16	52	237	301	214
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	91.2	36.4	62.8	157	67	224	52	22	75	202	261	254
E07000240	St Albans	Hertfordshire	East of England	ENG	73.0	28.8	50.1	128	54	182	43	18	61	270	335	287
E07000243	Stevenage	Hertfordshire	East of England	ENG	99.9	47.6	73.5	103	50	153	34	17	51	137	183	111
E07000102	Three Rivers	Hertfordshire	East of England	ENG	76.0	21.3	47.7	89	27	116	30	13	39	283	348	273
E07000103	Watford	Hertfordshire	East of England	ENG	91.9	34.2	62.5	94	35	129	31	14	43	204	263	185
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	85.6	34.1	59.2	114	48	162	38	16	54	227	291	202
E06000046	Isle of Wight	Isle of Wight	South East	ENG	96.0	44.5	69.1	232	116	348	77	39	116	162	216	78
E07000105	Ashford	Kent	South East	ENG	83.0	37.9	59.7	145	71	216	48	24	72	224	288	143

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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reissued 27 Aug 2024 - error in Belfast ASDR / ranking

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2020/22			Average number of annual prem CVD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E07000106	Canterbury	Kent	South East	ENG	101.3	38.7	68.5	210	91	301	70	30	100	167	221	176
E07000107	Dartford	Kent	South East	ENG	93.9	35.8	64.0	114	47	161	38	16	54	194	252	133
E07000108	Dover	Kent	South East	ENG	96.3	44.3	69.4	170	85	255	57	28	85	160	214	101
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	106.8	51.0	78.0	178	92	270	59	31	90	113	153	83
E07000109	Gravesham	Kent	South East	ENG	118.5	45.0	80.4	151	61	212	50	20	71	104	142	109
E07000110	Maidstone	Kent	South East	ENG	98.4	37.5	67.1	223	91	314	74	30	105	175	230	174
E06000035	Medway	Kent	South East	ENG	123.8	51.4	86.7	424	186	610	141	62	203	77	107	92
E07000111	Sevenoaks	Kent	South East	ENG	78.4	30.4	53.5	128	54	182	43	18	61	254	319	239
E07000113	Swale	Kent	South East	ENG	111.7	51.0	80.6	228	107	335	76	36	112	103	139	64
E07000114	Thanet	Kent	South East	ENG	119.1	51.8	83.9	242	119	361	81	40	120	89	122	37
E07000115	Tonbridge and Malling	Kent	South East	ENG	94.0	33.7	62.9	162	61	223	54	20	74	201	260	224
E07000116	Tunbridge Wells	Kent	South East	ENG	79.9	35.7	57.0	120	58	178	40	19	59	239	303	256
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	161.6	75.9	118.6	290	136	426	97	45	142	5	12	15
E06000009	Blackpool	Lancashire	North West	ENG	187.3	78.2	133.1	381	158	539	127	53	180	1	2	1
E07000117	Burnley	Lancashire	North West	ENG	167.4	68.9	117.3	205	87	292	68	29	97	7	15	10
E07000118	Chorley	Lancashire	North West	ENG	110.9	51.6	80.9	190	90	280	63	30	93	101	137	180
E07000119	Fylde	Lancashire	North West	ENG	109.1	38.9	73.4	151	57	208	50	19	69	139	185	190
E07000120	Hyndburn	Lancashire	North West	ENG	149.4	72.1	110.4	161	79	240	54	26	80	12	21	19
E07000121	Lancaster	Lancashire	North West	ENG	141.2	48.7	93.6	270	101	371	90	34	124	46	71	108
E07000122	Pendle	Lancashire	North West	ENG	129.4	60.1	94.4	161	76	237	54	25	79	44	69	31
E07000123	Preston	Lancashire	North West	ENG	149.2	67.4	108.3	251	113	364	84	38	121	17	27	46
E07000124	Ribble Valley	Lancashire	North West	ENG	89.4	37.7	63.0	88	38	126	29	15	42	199	258	262
E07000125	Rossendale	Lancashire	North West	ENG	137.1	57.1	96.4	138	59	197	46	20	66	37	59	89
E07000126	South Ribble	Lancashire	North West	ENG	101.4	45.2	72.5	163	79	242	54	26	81	147	194	200
E07000127	West Lancashire	Lancashire	North West	ENG	125.1	54.0	88.4	210	98	308	70	33	103	68	98	169
E07000128	Wyre	Lancashire	North West	ENG	122.2	56.0	87.9	224	111	335	75	37	112	70	100	146
E07000129	Blaby	Leicestershire	East Midlands	ENG	87.3	43.3	64.7	123	65	188	41	22	63	188	245	264
E07000130	Charnwood	Leicestershire	East Midlands	ENG	99.1	37.3	67.6	233	93	326	78	31	109	172	227	231
E07000131	Harborough	Leicestershire	East Midlands	ENG	86.7	34.0	59.8	125	52	177	42	17	59	223	287	289
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	80.4	33.1	56.3	136	59	195	45	20	65	246	310	225
E06000016	Leicester	Leicestershire	East Midlands	ENG	156.6	66.0	110.7	570	243	813	190	81	271	9	18	23
E07000133	Melton	Leicestershire	East Midlands	ENG	88.3	36.8	62.0	73	32	105	24	12	35	212	271	237
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	94.9	41.4	67.8	142	64	206	47	21	69	171	226	209
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	108.2	48.6	77.2	82	40	122	27	13	41	115	156	233
E07000136	Boston	Lincolnshire	East Midlands	ENG	126.1	59.5	91.9	120	60	180	40	20	60	50	76	80
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	133.0	70.9	101.0	347	196	543	116	65	181	29	47	32
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	130.0	88.5	109.0	146	99	245	49	33	82	15	24	67
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	130.6	58.5	93.8	286	134	420	95	45	140	45	70	65
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	99.7	41.1	69.2	176	78	254	59	26	85	161	215	253
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	131.3	56.9	93.5	329	146	475	110	49	158	47	72	113
E07000140	South Holland	Lincolnshire	East Midlands	ENG	112.8	53.8	82.6	164	80	244	55	27	81	94	128	136
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	97.7	37.3	66.4	210	86	296	70	29	99	178	233	227
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	96.9	35.6	65.6	152	59	211	51	20	70	183	238	137
E08000011	Knowsley	Merseyside	North West	ENG	149.4	75.6	110.6	296	164	460	99	55	153	10	19	3
E08000012	Liverpool	Merseyside	North West	ENG	148.8	65.8	105.8	825	392	1,217	275	131	406	23	35	4
E08000014	Sefton	Merseyside	North West	ENG	124.0	54.4	87.9	503	237	740	168	79	247	71	101	86
E08000013	St. Helens	Merseyside	North West	ENG	141.7	62.6	101.3	362	169	531	121	56	177	28	46	39
E08000015	Wirral	Merseyside	North West	ENG	120.0	50.1	83.8	555	247	802	185	82	267	90	123	75
E07000143	Breckland	Norfolk	East of England	ENG	92.1	30.9	60.7	201	72	273	67	24	91	220	283	116

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2020/22			Average number of annual prem CVD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E07000144	Broadland	Norfolk	East of England	ENG	67.1	34.2	50.0	139	77	216	46	26	72	271	336	244
E07000145	Great Yarmouth	Norfolk	East of England	ENG	133.1	50.1	90.7	203	81	284	68	27	95	58	85	25
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	90.9	43.0	66.2	210	110	320	70	37	107	180	235	76
E07000147	North Norfolk	Norfolk	East of England	ENG	80.4	38.7	58.8	156	82	238	52	27	79	231	295	95
E07000148	Norwich	Norfolk	East of England	ENG	125.5	56.4	90.3	190	89	279	63	30	93	60	88	60
E07000149	South Norfolk	Norfolk	East of England	ENG	70.8	26.9	48.2	151	62	213	50	21	71	279	344	219
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	103.7	44.9	73.5	483	223	706	161	74	235	138	184	148
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	98.0	43.6	70.2	524	243	767	175	81	256	155	207	178
E06000057	Northumberland	Northumberland	North East	ENG	99.7	46.8	72.4	522	265	787	174	88	262	148	195	122
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	107.8	67.2	87.2	187	121	308	62	40	103	75	105	59
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	110.0	55.6	82.4	193	102	295	64	34	98	96	131	105
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	101.4	49.9	74.9	158	82	240	53	27	80	125	169	213
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	106.1	43.3	73.7	177	76	253	59	25	84	135	181	199
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	132.3	53.8	92.4	200	84	284	67	28	95	49	75	56
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	106.7	46.3	75.9	196	90	286	65	30	95	120	164	140
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	164.9	76.2	119.9	490	232	722	163	77	241	4	10	11
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	76.1	30.8	52.8	127	54	181	42	18	60	258	323	294
E07000177	Cherwell	Oxfordshire	South East	ENG	78.7	34.6	56.2	158	73	231	53	24	77	247	311	211
E07000178	Oxford	Oxfordshire	South East	ENG	86.9	43.2	64.1	121	68	189	40	23	63	193	250	183
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	71.4	25.9	47.9	143	55	198	48	18	66	281	346	284
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	73.9	24.9	49.0	138	47	185	46	16	62	273	338	286
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	69.3	24.6	46.2	111	42	153	37	14	51	291	356	282
E06000017	Rutland	Rutland	East Midlands	ENG	76.5	19.1	47.2	48	12	60	16	-	20	286	351	279
E06000051	Shropshire	Shropshire	West Midlands	ENG	100.5	37.9	68.4	511	208	719	170	69	240	168	222	157
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	126.7	57.9	91.4	298	144	442	99	48	147	54	81	94
E06000022	Bath and North East Somerset	Somerset	South West	ENG	77.7	29.3	52.7	188	77	265	63	26	88	259	324	257
E06000024	North Somerset	Somerset	South West	ENG	87.4	39.3	62.4	272	135	407	91	45	136	205	264	208
E06000066	Somerset	Somerset	South West	ENG	89.0	36.8	62.1	779	348	1,127	260	116	376	209	268	139
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	107.7	61.6	84.2	147	88	235	49	29	78	86	119	120
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	104.7	44.8	74.5	173	74	247	58	25	82	131	176	150
E07000194	Lichfield	Staffordshire	West Midlands	ENG	75.0	46.3	60.2	119	77	196	40	26	65	222	285	235
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	116.8	47.1	81.3	205	87	292	68	29	97	99	135	141
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	103.2	36.1	69.1	180	65	245	60	22	82	163	217	220
E07000197	Stafford	Staffordshire	West Midlands	ENG	82.4	31.5	56.6	169	66	235	56	22	78	244	308	222
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	98.6	44.3	71.1	156	75	231	52	25	77	153	205	195
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	154.7	61.4	107.8	497	200	697	166	67	232	19	29	12
E07000199	Tamworth	Staffordshire	West Midlands	ENG	93.4	53.9	73.0	98	61	159	33	20	53	142	189	119
E07000200	Babergh	Suffolk	East of England	ENG	73.4	28.5	50.2	107	45	152	36	15	51	269	334	203
E07000244	East Suffolk	Suffolk	East of England	ENG	100.1	49.9	74.2	397	213	610	132	71	203	132	177	151
E07000202	Ipswich	Suffolk	East of England	ENG	95.6	54.1	74.6	159	91	250	53	30	83	128	172	69
E07000203	Mid Suffolk	Suffolk	East of England	ENG	68.7	34.3	51.1	113	58	171	38	19	57	265	330	221
E07000245	West Suffolk	Suffolk	East of England	ENG	86.8	37.2	61.3	207	94	301	69	31	100	215	277	168
E07000207	Elmbridge	Surrey	South East	ENG	68.8	30.4	48.8	116	55	171	39	18	57	275	340	291
E07000208	Epsom and Ewell	Surrey	South East	ENG	66.3	28.4	46.7	66	31	97	22	13	32	289	354	281
E07000209	Guildford	Surrey	South East	ENG	70.7	35.1	52.3	121	64	185	40	21	62	260	325	277
E07000210	Mole Valley	Surrey	South East	ENG	73.2	27.5	49.8	94	38	132	31	13	44	272	337	275
E07000211	Reigate and Banstead	Surrey	South East	ENG	87.2	36.1	61.0	165	71	236	55	24	79	219	281	260
E07000212	Runnymede	Surrey	South East	ENG	102.7	41.7	71.4	105	45	150	35	15	50	150	202	246
E07000213	Spelthorne	Surrey	South East	ENG	108.7	40.0	73.6	136	52	188	45	17	63	136	182	192

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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reissued 27 Aug 2024 - error in Belfast ASDR / ranking

LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2020/22			Average number of annual prem CVD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E07000214	Surrey Heath	Surrey	South East	ENG	76.2	29.1	51.9	91	37	128	30	12	43	263	328	290
E07000215	Tandridge	Surrey	South East	ENG	89.8	29.5	58.4	106	38	144	35	13	48	232	296	242
E07000216	Waverley	Surrey	South East	ENG	70.9	25.2	47.2	122	48	170	41	16	57	285	350	293
E07000217	Woking	Surrey	South East	ENG	88.3	34.6	61.0	110	44	154	37	15	51	218	280	263
E08000037	Gateshead	Tyne & Wear	North East	ENG	120.0	55.0	86.9	326	156	482	109	52	161	76	106	53
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	131.4	59.4	94.7	426	201	627	142	67	209	43	68	70
E08000022	North Tyneside	Tyne & Wear	North East	ENG	125.0	48.3	85.0	367	155	522	122	52	174	82	113	123
E08000023	South Tyneside	Tyne & Wear	North East	ENG	134.2	59.6	95.8	286	136	422	95	45	141	39	61	26
E08000024	Sunderland	Tyne & Wear	North East	ENG	131.1	57.2	92.9	508	238	746	169	79	249	48	73	33
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	120.6	55.0	87.2	117	55	172	39	18	57	74	104	147
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	125.7	58.6	91.5	222	109	331	74	36	110	53	80	98
E07000220	Rugby	Warwickshire	West Midlands	ENG	105.9	45.3	75.2	151	66	217	50	22	72	124	168	212
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	73.9	37.5	55.1	152	86	238	51	29	79	250	314	245
E07000222	Warwick	Warwickshire	West Midlands	ENG	90.2	38.6	63.6	165	76	241	55	25	80	198	257	249
E08000025	Birmingham	West Midlands	West Midlands	ENG	143.6	61.6	101.6	1,640	724	2,364	547	241	788	26	44	7
E08000026	Coventry	West Midlands	West Midlands	ENG	145.1	54.5	99.3	527	202	729	176	67	243	34	55	72
E08000027	Dudley	West Midlands	West Midlands	ENG	115.5	50.4	82.3	495	225	720	165	75	240	97	132	99
E08000028	Sandwell	West Midlands	West Midlands	ENG	157.2	65.6	110.6	598	253	851	199	84	284	11	20	6
E08000029	Solihull	West Midlands	West Midlands	ENG	93.7	36.8	64.2	269	116	385	90	39	128	192	249	196
E08000030	Walsall	West Midlands	West Midlands	ENG	138.4	64.5	100.8	467	227	694	156	76	231	30	49	28
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	145.7	74.5	109.4	452	237	689	151	79	230	13	22	18
E07000223	Adur	West Sussex	South East	ENG	97.9	42.2	68.0	87	42	129	29	14	43	169	224	154
E07000224	Arun	West Sussex	South East	ENG	113.4	41.5	75.7	282	122	404	94	41	135	121	165	144
E07000225	Chichester	West Sussex	South East	ENG	90.4	34.8	61.1	172	74	246	57	25	82	217	279	204
E07000226	Crawley	West Sussex	South East	ENG	110.7	47.7	78.3	142	63	205	47	21	68	112	151	127
E07000227	Horsham	West Sussex	South East	ENG	71.4	27.6	48.7	152	64	216	51	21	72	276	341	271
E07000228	Mid Sussex	West Sussex	South East	ENG	68.6	29.1	48.1	140	64	204	47	21	68	280	345	292
E07000229	Worthing	West Sussex	South East	ENG	92.1	39.1	64.5	139	66	205	46	22	68	189	246	161
E06000030	Swindon	Wiltshire	South West	ENG	109.4	44.9	76.8	314	131	445	105	44	148	116	159	162
E06000054	Wiltshire	Wiltshire	South West	ENG	84.1	31.1	56.7	611	241	852	204	80	284	243	307	223
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	78.8	33.8	55.6	112	51	163	37	17	54	248	312	255
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	74.8	39.9	56.9	101	56	157	34	19	52	241	305	181
E07000236	Redditch	Worcestershire	West Midlands	ENG	112.9	56.8	84.1	131	70	201	44	23	67	87	120	114
E07000237	Worcester	Worcestershire	West Midlands	ENG	96.9	39.8	67.6	125	54	179	42	18	60	173	228	149
E07000238	Wychavon	Worcestershire	West Midlands	ENG	101.5	33.4	66.6	209	74	283	70	25	94	177	232	179
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	116.2	43.9	78.8	182	73	255	61	24	85	111	150	107
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	97.8	38.6	67.4	547	230	777	182	77	259	174	229	207
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	167.7	69.0	118.2	538	222	760	179	74	253	6	14	9
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	123.2	72.9	97.3	216	136	352	72	45	117	36	58	16
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	89.8	39.0	63.7	879	410	1,289	293	137	430	197	256	210
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	118.9	49.7	82.9	240	111	351	80	37	117	93	126	62
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	102.3	38.0	68.8	256	102	358	85	34	119	165	219	259
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	138.2	77.2	107.3	470	271	741	157	90	247	21	32	38
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	131.6	59.9	95.1	554	266	820	185	89	273	41	64	40
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	144.4	65.3	104.0	517	246	763	172	82	254	25	38	49
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	112.0	49.6	80.2	726	335	1,061	242	112	354	105	143	88
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	151.8	68.6	109.4	945	442	1,387	315	147	462	14	23	21
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	135.0	57.8	95.3	378	172	550	126	57	183	40	63	73
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	125.9	57.8	91.1	695	333	1,028	232	111	343	56	83	82

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2020/22			Average number of annual prem CVD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	110.0	45.1	76.6	993	431	1,424	331	144	475	117	160	85
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	123.7	56.7	89.5	590	282	872	197	94	291	66	94	61
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	100.5	38.1	68.2	180	73	253	60	24	84	5	223	10
N09000011	Ards and North Down		Northern Ireland	NI	83.5	41.1	61.5	196	105	301	65	35	100	9	274	9
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	86.2	38.5	61.9	226	104	330	75	35	110	8	272	7
N09000003	Belfast		Northern Ireland	NI	123.9	55.6	88.4	464	221	685	155	74	228	1	97	4
N09000004	Causeway Coast and Glens		Northern Ireland	NI	91.1	40.0	65.3	176	79	255	59	26	85	6	240	5
N09000005	Derry City and Strabane		Northern Ireland	NI	102.8	42.8	72.1	193	83	276	64	28	92	3	198	1
N09000006	Fermanagh and Omagh		Northern Ireland	NI	97.5	51.5	74.5	154	80	234	51	27	78	2	174	2
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	74.2	36.2	54.6	136	71	207	45	24	69	11	315	11
N09000008	Mid and East Antrim		Northern Ireland	NI	94.3	49.7	71.5	177	99	276	59	33	92	4	201	8
N09000009	Mid Ulster		Northern Ireland	NI	87.3	42.1	64.7	150	72	222	50	24	74	7	244	6
N09000010	Newry, Mourne and Down		Northern Ireland	NI	84.1	36.7	60.0	191	87	278	64	29	93	10	286	3
S12000033	Aberdeen City		Scotland	SCO	123.2	63.3	92.8	342	179	521	114	60	174	16	74	26
S12000034	Aberdeenshire		Scotland	SCO	101.7	53.4	77.1	401	216	617	134	72	206	24	157	30
S12000041	Angus		Scotland	SCO	103.2	63.0	82.4	191	123	314	64	41	105	22	130	20
S12000035	Argyll and Bute		Scotland	SCO	122.1	48.8	84.9	184	74	258	61	25	86	20	114	19
S12000036	City of Edinburgh		Scotland	SCO	120.1	50.6	84.3	704	315	1,019	235	105	340	21	118	29
S12000005	Clackmannanshire		Scotland	SCO	161.8	77.7	118.5	125	65	190	42	22	63	7	13	8
S12000006	Dumfries and Galloway		Scotland	SCO	133.7	58.3	94.8	327	157	484	109	52	161	15	67	12
S12000042	Dundee City		Scotland	SCO	167.0	75.7	119.6	303	149	452	101	50	151	6	11	6
S12000008	East Ayrshire		Scotland	SCO	173.9	76.9	123.6	307	149	456	102	50	152	3	6	7
S12000045	East Dunbartonshire		Scotland	SCO	83.9	41.4	61.4	135	76	211	45	25	70	32	276	31
S12000010	East Lothian		Scotland	SCO	99.6	42.6	69.7	155	74	229	52	25	76	29	211	22
S12000011	East Renfrewshire		Scotland	SCO	93.5	38.2	64.1	123	57	180	41	19	60	31	251	32
S12000014	Falkirk		Scotland	SCO	141.5	78.6	108.8	316	190	506	105	63	169	8	26	16
S12000047	Fife		Scotland	SCO	139.1	65.5	100.8	741	382	1,123	247	127	374	13	48	17
S12000049	Glasgow City		Scotland	SCO	191.5	90.2	139.1	1,322	656	1,978	441	219	659	1	1	2
S12000017	Highland		Scotland	SCO	122.4	51.5	86.1	458	202	660	153	67	220	19	109	18
S12000018	Inverclyde		Scotland	SCO	136.3	71.6	102.3	164	94	258	55	31	86	11	42	4
S12000019	Midlothian		Scotland	SCO	101.6	50.1	74.1	129	70	199	43	23	66	26	178	14
S12000020	Moray		Scotland	SCO	113.0	48.8	80.0	160	73	233	53	24	78	23	144	23
S12000013	Na h-Eileanan Siar		Scotland	SCO	151.3	54.5	102.9	70	25	95	23	8	32	9	39	10
S12000021	North Ayrshire		Scotland	SCO	159.3	88.8	122.1	331	209	540	110	70	180	4	7	3
S12000050	North Lanarkshire		Scotland	SCO	173.6	80.6	125.2	793	398	1,191	264	133	397	2	4	5
S12000023	Orkney Islands		Scotland	SCO	101.2	39.9	70.1	36	15	51	12	5	17	30	208	24
S12000048	Perth and Kinross		Scotland	SCO	105.0	49.4	76.3	249	122	371	83	41	124	25	161	28
S12000038	Renfrewshire		Scotland	SCO	149.8	59.3	102.2	378	165	543	126	55	181	12	43	9
S12000026	Scottish Borders		Scotland	SCO	103.5	44.7	73.2	203	94	297	68	31	99	27	188	21
S12000027	Shetland Islands		Scotland	SCO	109.1	35.1	72.4	38	12	50	13	4	17	28	196	25
S12000028	South Ayrshire		Scotland	SCO	126.9	57.0	90.4	235	116	351	78	39	117	18	87	13
S12000029	South Lanarkshire		Scotland	SCO	135.4	72.8	102.8	630	369	999	210	123	333	10	40	11
S12000030	Stirling		Scotland	SCO	120.8	70.8	94.9	156	98	254	52	33	85	14	65	27
S12000039	West Dunbartonshire		Scotland	SCO	169.0	76.4	120.4	214	106	320	71	35	107	5	9	1
S12000040	West Lothian		Scotland	SCO	123.3	61.7	91.5	296	158	454	99	53	151	17	79	15
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	119.5	47.7	82.8	226	102	330	75	34	110	12	127	17
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	139.8	62.5	102.4	215	100	320	72	33	107	6	41	9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	111.8	56.6	89.2	254	135	411	85	45	137	11	95	20
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	126.2	62.5	97.5	240	124	377	80	41	126	9	57	14

Table 1.26 Age-standardised death rates per 100,000 and number of deaths for heart and circulatory diseases (CVD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					UNDER 75											
					Age-standardised premature CVD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CVD deaths - 2020/22			Average number of annual prem CVD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	113.4	52.4	81.8	328	169	496	109	56	165	13	133	8
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	111.1	48.2	80.4	128	61	189	43	20	63	15	141	16
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	106.5	51.8	80.4	219	115	340	73	38	113	14	140	12
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	168.1	79.4	121.8	160	79	236	53	26	79	1	8	1
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	137.9	65.0	100.6	339	169	509	113	56	170	7	50	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	90.5	33.7	60.7	139	56	193	46	19	64	22	282	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	144.6	69.7	106.3	279	141	420	93	47	140	4	34	5
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	127.4	77.9	100.0	161	109	265	54	36	88	8	52	7
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	118.5	35.8	77.6	211	67	281	70	22	94	17	154	18
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	87.0	55.3	72.1	104	69	176	35	23	59	19	197	15
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	105.1	47.7	78.2	213	105	326	71	35	109	16	152	10
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	165.1	57.7	115.8	130	49	187	43	16	62	2	17	2
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	121.2	67.4	95.6	394	230	636	131	77	212	10	62	4
W06000023	Powys	Powys	Wales / Cymru	WAL	93.6	37.3	72.0	222	93	335	74	31	112	20	199	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	111.5	44.4	77.0	431	180	611	144	60	204	18	158	11
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	97.4	27.2	63.8	182	58	251	61	19	84	21	255	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	148.7	68.7	107.6	297	146	443	99	49	148	3	30	3
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	145.5	63.8	104.8	459	219	687	153	73	229	5	36	13

Notes: ICD-10 codes I00-I99. Directly age-standardised using the 2013 European Standard Population. Some of the data for Wales has been suppressed.

Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area

UK local authorities correct April 2024

* indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)

Totals for male & female deaths may not equal total due to suppression of age-band cohorts in Nomis data - Wales only

Citation: BHF (2024) Analysis of official UK mortality data

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

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

Scotland: Mortality rates calculated in partnership with NRS (National Records of Scotland)

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

England: Average IMD ranks taken from English Indices of Deprivation

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

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

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

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

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

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

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

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

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

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2020/2022			Average number of annual CHD deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1 = most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E06000055	Bedford	Bedfordshire	East of England	ENG	123.0	53.2	84.9	276	151	427	92	50	142	188	251	152
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	123.7	52.9	84.7	448	238	686	149	79	229	190	253	247
E06000032	Luton	Bedfordshire	East of England	ENG	157.1	70.0	110.0	314	170	484	105	57	161	75	113	51
E06000036	Bracknell Forest	Berkshire	South East	ENG	121.2	48.1	80.8	165	81	246	55	27	82	218	283	265
E06000038	Reading	Berkshire	South East	ENG	141.0	53.6	92.6	222	106	328	74	35	109	150	205	132
E06000039	Slough	Berkshire	South East	ENG	180.8	95.9	136.2	223	131	354	74	44	118	16	27	74
E06000037	West Berkshire	Berkshire	South East	ENG	108.6	47.1	74.9	237	131	368	79	44	123	248	313	272
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	123.3	47.0	81.2	254	131	385	85	44	128	216	281	285
E06000041	Wokingham	Berkshire	South East	ENG	98.4	33.9	63.4	219	98	317	73	33	106	289	354	295
E06000023	Bristol, City of	Bristol	South West	ENG	134.6	54.5	90.5	590	304	894	197	101	298	162	220	77
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	116.8	49.7	79.6	848	500	1,348	283	167	449	224	289	268
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	108.4	49.6	75.2	289	171	460	96	57	153	247	312	165
E07000008	Cambridge	Cambridgeshire	East of England	ENG	116.5	40.0	73.8	140	65	205	47	22	68	257	322	198
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	120.4	64.9	89.7	151	107	258	50	36	86	170	229	250
E07000010	Fenland	Cambridgeshire	East of England	ENG	156.1	63.7	105.7	245	132	377	82	44	126	90	135	50
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	129.6	52.9	86.7	315	165	480	105	55	160	182	245	236
E06000031	Peterborough	Cambridgeshire	East of England	ENG	152.5	66.0	105.5	337	181	518	112	60	173	94	139	52
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	112.7	44.1	75.3	258	133	391	86	44	130	245	310	283
E06000049	Cheshire East	Cheshire	North West	ENG	138.5	58.2	94.3	853	469	1,322	284	156	441	141	194	217
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	136.6	55.0	91.8	709	370	1,079	236	123	360	156	212	170
E06000006	Halton	Cheshire	North West	ENG	200.3	82.5	135.5	320	159	479	107	53	160	19	30	41
E06000007	Warrington	Cheshire	North West	ENG	160.2	68.2	109.6	448	238	686	149	79	229	77	116	163
E06000052	Cornwall	Cornwall	South West	ENG	151.7	63.1	102.7	1,443	796	2,239	481	265	746	106	154	79
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232
E06000047	County Durham	County Durham	North East	ENG	164.9	81.3	118.9	1,207	754	1,961	402	251	654	41	68	68
E06000005	Darlington	County Durham	North East	ENG	145.9	59.4	98.4	221	116	337	74	39	112	124	175	100
E06000001	Hartlepool	County Durham	North East	ENG	183.1	60.9	113.8	223	96	319	74	32	106	56	91	27
E06000004	Stockton-on-Tees	County Durham	North East	ENG	153.4	71.5	108.4	385	228	613	128	76	204	79	119	112
E06000063	Cumberland	Cumbria	North West	ENG	152.4	65.5	105.6	662	357	1,019	221	119	340	91	136	103
E06000064	Westmorland and Furness	Cumbria	North West	ENG	131.6	55.6	90.1	516	287	803	172	96	268	166	225	160
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	156.6	61.3	105.2	298	150	448	99	50	149	97	143	158
E07000033	Bolsover	Derbyshire	East Midlands	ENG	177.4	68.0	115.4	187	94	281	62	31	94	49	81	57
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	141.5	58.8	96.2	215	116	331	72	39	110	133	186	81
E06000015	Derby	Derbyshire	East Midlands	ENG	166.5	71.3	114.9	503	291	794	168	97	265	53	85	84
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	126.4	45.3	81.6	168	81	249	56	27	83	214	278	248
E07000036	Erewash	Derbyshire	East Midlands	ENG	153.7	76.1	110.6	245	154	399	82	51	133	73	111	159
E07000037	High Peak	Derbyshire	East Midlands	ENG	139.9	66.2	98.4	183	109	292	61	36	97	125	176	193
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	133.4	61.3	94.1	224	130	354	75	43	118	143	196	166
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	151.6	65.7	104.8	202	109	311	67	36	104	98	144	215
E07000040	East Devon	Devon	South West	ENG	112.4	44.0	74.0	349	203	552	116	68	184	255	320	226
E07000041	Exeter	Devon	South West	ENG	140.6	48.5	88.7	210	106	316	70	35	105	176	236	182
E07000042	Mid Devon	Devon	South West	ENG	114.7	52.0	79.7	154	93	247	51	31	82	223	288	155
E07000043	North Devon	Devon	South West	ENG	134.1	54.7	91.8	233	124	357	78	41	119	155	211	117
E06000026	Plymouth	Devon	South West	ENG	153.3	64.7	104.1	509	290	799	170	97	266	103	150	71
E07000044	South Hams	Devon	South West	ENG	101.7	41.8	68.4	169	94	263	56	31	88	278	343	206
E07000045	Teignbridge	Devon	South West	ENG	124.0	51.3	83.8	299	171	470	100	57	157	205	269	175
E06000027	Torbay	Devon	South West	ENG	149.1	42.9	91.1	374	146	520	125	49	173	160	218	48
E07000046	Torridge	Devon	South West	ENG	134.4	60.6	92.9	168	99	267	56	33	89	148	203	66
E07000047	West Devon	Devon	South West	ENG	130.9	43.3	84.3	144	62	206	48	21	69	196	260	130

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2020/2022			Average number of annual CHD deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1 = most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	133.3	54.4	89.9	810	471	1,281	270	157	427	168	227	156
E06000059	Dorset	Dorset	South West	ENG	124.9	47.3	82.0	961	504	1,465	320	168	488	211	275	187
E06000043	Brighton and Hove	East Sussex	South East	ENG	123.1	49.1	82.0	348	188	536	116	63	179	209	273	131
E07000061	Eastbourne	East Sussex	South East	ENG	118.3	48.0	78.1	201	131	332	67	44	111	232	297	104
E07000062	Hastings	East Sussex	South East	ENG	154.9	58.7	100.0	191	95	286	64	32	95	116	167	14
E07000063	Lewes	East Sussex	South East	ENG	111.6	35.4	68.9	200	98	298	67	33	99	276	341	184
E07000064	Rother	East Sussex	South East	ENG	117.0	41.3	74.1	233	126	359	78	42	120	254	319	126
E07000065	Wealden	East Sussex	South East	ENG	97.8	38.4	64.5	282	153	435	94	51	145	287	352	238
E07000066	Basildon	Essex	East of England	ENG	135.3	62.2	93.4	291	181	472	97	60	157	147	202	106
E07000067	Braintree	Essex	East of England	ENG	119.2	45.5	78.8	258	129	387	86	43	129	226	291	194
E07000068	Brentwood	Essex	East of England	ENG	117.9	43.2	76.7	131	71	202	44	24	67	237	302	269
E07000069	Castle Point	Essex	East of England	ENG	133.0	55.6	89.2	191	110	301	64	37	100	173	232	172
E07000070	Chelmsford	Essex	East of England	ENG	113.3	48.2	77.2	275	153	428	92	51	143	235	300	241
E07000071	Colchester	Essex	East of England	ENG	117.7	47.3	78.3	278	145	423	93	48	141	230	295	173
E07000072	Epping Forest	Essex	East of England	ENG	132.6	47.1	84.8	243	119	362	81	40	121	189	252	191
E07000073	Harlow	Essex	East of England	ENG	161.3	57.0	101.1	152	74	226	51	25	75	112	163	97
E07000074	Maldon	Essex	East of England	ENG	111.9	38.6	72.1	127	56	183	42	19	61	260	325	197
E07000075	Rochford	Essex	East of England	ENG	141.2	42.0	84.1	187	78	265	62	26	88	199	263	267
E06000033	Southend-on-Sea	Essex	East of England	ENG	148.1	55.1	95.5	351	182	533	117	61	178	135	188	115
E07000076	Tendring	Essex	East of England	ENG	133.9	61.1	94.5	398	239	637	133	80	212	139	192	34
E06000034	Thurrock	Essex	East of England	ENG	157.3	62.1	104.6	260	131	391	87	44	130	100	146	110
E07000077	Uttlesford	Essex	East of England	ENG	105.1	39.8	69.7	137	69	206	46	23	69	272	337	276
E07000078	Cheltenham	Gloucestershire	South West	ENG	140.1	55.0	92.4	225	128	353	75	43	118	151	206	228
E07000079	Cotswold	Gloucestershire	South West	ENG	106.9	48.1	74.6	167	104	271	56	35	90	250	315	258
E07000080	Forest of Dean	Gloucestershire	South West	ENG	150.6	67.0	105.6	215	124	339	72	41	113	93	138	135
E07000081	Gloucester	Gloucestershire	South West	ENG	164.0	68.7	113.0	261	140	401	87	47	134	61	96	128
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	102.5	42.2	69.9	395	211	606	132	70	202	270	335	251
E07000082	Stroud	Gloucestershire	South West	ENG	126.1	58.9	88.5	241	145	386	80	48	129	178	239	261
E07000083	Tewkesbury	Gloucestershire	South West	ENG	152.8	44.9	92.3	219	85	304	73	28	101	152	207	243
E09000002	Barking and Dagenham	Greater London	London	ENG	173.6	67.6	115.0	267	124	391	89	41	130	52	84	5
E09000003	Barnet	Greater London	London	ENG	124.8	52.6	84.4	500	295	795	167	98	265	194	258	171
E09000004	Bexley	Greater London	London	ENG	120.7	56.4	84.1	341	230	571	114	77	190	200	264	177
E09000005	Brent	Greater London	London	ENG	166.0	66.5	111.2	487	244	731	162	81	244	72	109	47
E09000006	Bromley	Greater London	London	ENG	115.7	46.8	77.2	479	273	752	160	91	251	236	301	218
E09000007	Camden	Greater London	London	ENG	150.7	55.8	97.0	264	130	394	88	43	131	129	181	125
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189
E09000008	Croydon	Greater London	London	ENG	123.2	52.6	84.1	477	260	737	159	87	246	201	265	96
E09000009	Ealing	Greater London	London	ENG	154.5	58.9	101.9	504	231	735	168	77	245	107	156	87
E09000010	Enfield	Greater London	London	ENG	155.8	57.2	99.7	504	252	756	168	84	252	118	169	58
E09000011	Greenwich	Greater London	London	ENG	167.7	75.7	116.4	363	208	571	121	69	190	46	77	63
E09000012	Hackney	Greater London	London	ENG	166.2	69.3	112.6	270	126	396	90	42	132	66	101	8
E09000013	Hammersmith and Fulham	Greater London	London	ENG	172.3	55.7	103.1	213	97	310	71	32	103	105	152	93
E09000014	Haringey	Greater London	London	ENG	183.9	71.2	121.1	376	177	553	125	59	184	35	61	36
E09000015	Harrow	Greater London	London	ENG	121.6	61.8	88.5	341	239	580	114	80	193	179	240	188
E09000016	Havering	Greater London	London	ENG	127.7	47.9	82.1	406	220	626	135	73	209	208	272	167
E09000017	Hillingdon	Greater London	London	ENG	155.0	54.1	99.0	466	212	678	155	71	226	119	170	138
E09000018	Hounslow	Greater London	London	ENG	156.0	66.3	107.3	385	194	579	128	65	193	83	125	90
E09000019	Islington	Greater London	London	ENG	167.0	69.3	112.3	243	126	369	81	42	123	68	103	29
E09000020	Kensington and Chelsea	Greater London	London	ENG	125.1	32.8	71.9	177	62	239	59	21	80	261	326	118

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2020/2022			Average number of annual CHD deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1 = most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E09000021	Kingston upon Thames	Greater London	London	ENG	117.3	43.7	75.9	200	99	299	67	33	100	241	306	252
E09000022	Lambeth	Greater London	London	ENG	162.8	49.6	98.6	340	127	467	113	42	156	122	173	43
E09000023	Lewisham	Greater London	London	ENG	155.5	69.4	107.4	329	190	519	110	63	173	82	124	35
E09000024	Merton	Greater London	London	ENG	108.9	43.6	71.8	205	113	318	68	38	106	262	327	205
E09000025	Newham	Greater London	London	ENG	182.6	68.6	119.6	375	154	529	125	51	176	39	65	13
E09000026	Redbridge	Greater London	London	ENG	151.1	58.0	100.3	427	207	634	142	69	211	115	166	153
E09000027	Richmond upon Thames	Greater London	London	ENG	97.1	40.3	64.8	209	120	329	70	40	110	285	350	278
E09000028	Southwark	Greater London	London	ENG	141.1	49.6	88.6	261	123	384	87	41	128	177	237	45
E09000029	Sutton	Greater London	London	ENG	121.5	48.1	79.7	267	149	416	89	50	139	222	287	216
E09000030	Tower Hamlets	Greater London	London	ENG	191.0	66.7	121.6	266	106	372	89	35	124	33	59	30
E09000031	Waltham Forest	Greater London	London	ENG	150.4	69.2	105.6	323	180	503	108	60	168	92	137	44
E09000032	Wandsworth	Greater London	London	ENG	117.3	44.7	75.4	254	132	386	85	44	129	243	308	164
E09000033	Westminster	Greater London	London	ENG	113.1	45.8	76.4	211	104	315	70	35	105	238	303	134
E08000001	Bolton	Greater Manchester	North West	ENG	170.3	79.2	122.5	620	341	961	207	114	320	30	56	42
E08000002	Bury	Greater Manchester	North West	ENG	173.4	70.3	115.4	410	219	629	137	73	210	50	82	102
E08000003	Manchester	Greater Manchester	North West	ENG	230.1	104.4	161.4	902	484	1,386	301	161	462	1	4	2
E08000004	Oldham	Greater Manchester	North West	ENG	204.5	82.0	137.4	549	270	819	183	90	273	13	24	24
E08000005	Rochdale	Greater Manchester	North West	ENG	195.6	86.3	134.8	490	272	762	163	91	254	21	34	17
E08000006	Salford	Greater Manchester	North West	ENG	191.2	70.6	126.0	501	223	724	167	74	241	28	50	20
E08000007	Stockport	Greater Manchester	North West	ENG	169.7	65.2	111.5	683	368	1,051	228	123	350	70	105	145
E08000008	Tameside	Greater Manchester	North West	ENG	209.6	104.2	150.8	563	357	920	188	119	307	3	9	22
E08000009	Trafford	Greater Manchester	North West	ENG	164.8	68.7	111.3	472	269	741	157	90	247	71	107	201
E08000010	Wigan	Greater Manchester	North West	ENG	159.2	66.2	108.3	682	343	1,025	227	114	342	80	120	91
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	123.9	61.7	90.8	282	172	454	94	57	151	161	219	234
E07000085	East Hampshire	Hampshire	South East	ENG	108.4	37.7	67.8	216	106	322	72	35	107	279	344	266
E07000086	Eastleigh	Hampshire	South East	ENG	132.0	43.9	82.8	246	112	358	82	37	119	206	270	270
E07000087	Fareham	Hampshire	South East	ENG	108.0	41.6	69.1	206	117	323	69	39	108	275	340	280
E07000088	Gosport	Hampshire	South East	ENG	122.7	53.0	84.0	144	86	230	48	29	77	202	266	121
E07000089	Hart	Hampshire	South East	ENG	98.3	43.8	68.7	138	81	219	46	27	73	277	342	296
E07000090	Havant	Hampshire	South East	ENG	125.2	42.8	78.6	258	123	381	86	41	127	228	293	124
E07000091	New Forest	Hampshire	South East	ENG	118.7	49.9	80.3	423	261	684	141	87	228	219	284	230
E06000044	Portsmouth	Hampshire	South East	ENG	141.8	65.0	98.5	301	191	492	100	64	164	123	174	54
E07000092	Rushmoor	Hampshire	South East	ENG	131.3	55.5	87.2	129	73	202	43	24	67	180	243	186
E06000045	Southampton	Hampshire	South East	ENG	154.4	79.4	113.3	374	247	621	125	82	207	60	95	55
E07000093	Test Valley	Hampshire	South East	ENG	121.3	48.9	82.6	236	127	363	79	42	121	207	271	240
E07000094	Winchester	Hampshire	South East	ENG	117.8	41.5	74.9	221	115	336	74	38	112	249	314	274
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	146.1	63.8	101.3	482	272	754	161	91	251	108	159	129
E07000095	Broxbourne	Hertfordshire	East of England	ENG	133.0	54.4	88.8	161	90	251	54	30	84	174	233	142
E07000096	Dacorum	Hertfordshire	East of England	ENG	97.4	39.9	65.2	188	105	293	63	35	98	284	349	229
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	126.9	46.5	82.0	247	118	365	82	39	122	210	274	288
E07000098	Hertsmere	Hertfordshire	East of England	ENG	103.2	37.6	66.0	140	73	213	47	24	71	283	348	214
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	121.4	47.9	80.2	220	120	340	73	40	113	220	285	254
E07000240	St Albans	Hertfordshire	East of England	ENG	95.2	35.7	62.1	176	92	268	59	31	89	290	355	287
E07000243	Stevenage	Hertfordshire	East of England	ENG	133.6	57.8	91.4	132	75	207	44	25	69	159	215	111
E07000102	Three Rivers	Hertfordshire	East of England	ENG	90.2	30.3	57.3	109	50	159	36	17	53	293	358	273
E07000103	Watford	Hertfordshire	East of England	ENG	113.4	39.4	70.6	105	49	154	35	16	51	267	332	185
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	115.0	42.2	74.4	158	83	241	53	28	80	251	316	202
E06000046	Isle of Wight	Isle of Wight	South East	ENG	140.5	54.3	91.8	374	199	573	125	66	191	157	213	78
E07000105	Ashford	Kent	South East	ENG	96.3	46.3	70.0	174	105	279	58	35	93	269	334	143

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2020/2022			Average number of annual CHD deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1 = most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E07000106	Canterbury	Kent	South East	ENG	115.8	45.1	75.9	260	150	410	87	50	137	240	305	176
E07000107	Dartford	Kent	South East	ENG	117.3	42.3	75.4	134	64	198	45	21	66	244	309	133
E07000108	Dover	Kent	South East	ENG	136.9	58.4	93.8	251	141	392	84	47	131	145	199	101
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	127.2	59.7	90.4	231	142	373	77	47	124	163	221	83
E07000109	Gravesham	Kent	South East	ENG	146.2	56.8	97.4	189	96	285	63	32	95	128	180	109
E07000110	Maidstone	Kent	South East	ENG	125.7	39.3	77.6	289	121	410	96	40	137	234	299	174
E06000035	Medway	Kent	South East	ENG	154.7	58.6	101.2	487	233	720	162	78	240	111	162	92
E07000111	Sevenoaks	Kent	South East	ENG	104.5	34.0	64.7	188	87	275	63	29	92	286	351	239
E07000113	Swale	Kent	South East	ENG	151.6	51.3	95.3	292	124	416	97	41	139	136	189	64
E07000114	Thanet	Kent	South East	ENG	139.4	59.7	94.6	298	178	476	99	59	159	138	191	37
E07000115	Tonbridge and Malling	Kent	South East	ENG	128.3	42.0	79.3	224	97	321	75	32	107	225	290	224
E07000116	Tunbridge Wells	Kent	South East	ENG	95.2	37.2	63.6	153	86	239	51	29	80	288	353	256
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	195.5	88.4	138.0	319	167	486	106	56	162	10	21	15
E06000009	Blackpool	Lancashire	North West	ENG	200.9	78.9	137.1	422	198	620	141	66	207	14	25	1
E07000117	Burnley	Lancashire	North West	ENG	205.6	105.3	152.6	243	151	394	81	50	131	2	6	10
E07000118	Chorley	Lancashire	North West	ENG	161.6	83.6	120.4	263	164	427	88	55	142	37	63	180
E07000119	Fylde	Lancashire	North West	ENG	126.3	48.9	84.4	198	101	299	66	34	100	193	257	190
E07000120	Hyndburn	Lancashire	North West	ENG	188.8	94.2	138.0	198	119	317	66	40	106	11	22	19
E07000121	Lancaster	Lancashire	North West	ENG	198.5	72.6	128.8	396	191	587	132	64	196	25	45	108
E07000122	Pendle	Lancashire	North West	ENG	178.3	88.4	129.1	211	127	338	70	42	113	23	43	31
E07000123	Preston	Lancashire	North West	ENG	205.6	77.5	135.8	324	154	478	108	51	159	18	29	46
E07000124	Ribble Valley	Lancashire	North West	ENG	119.5	63.1	90.3	126	84	210	42	28	70	164	223	262
E07000125	Rossendale	Lancashire	North West	ENG	209.7	86.8	141.4	191	98	289	64	33	96	9	19	89
E07000126	South Ribble	Lancashire	North West	ENG	147.9	74.1	108.0	244	156	400	81	52	133	81	121	200
E07000127	West Lancashire	Lancashire	North West	ENG	189.2	71.6	123.7	320	159	479	107	53	160	29	53	169
E07000128	Wyre	Lancashire	North West	ENG	169.5	72.6	115.7	348	201	549	116	67	183	48	79	146
E07000129	Blaby	Leicestershire	East Midlands	ENG	120.6	59.0	86.1	172	109	281	57	36	94	184	247	264
E07000130	Charnwood	Leicestershire	East Midlands	ENG	150.8	56.0	98.7	356	173	529	119	58	176	121	172	231
E07000131	Harborough	Leicestershire	East Midlands	ENG	124.2	51.5	84.5	186	96	282	62	32	94	191	254	289
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	131.8	55.4	89.4	223	119	342	74	40	114	172	231	225
E06000016	Leicester	Leicestershire	East Midlands	ENG	198.2	99.9	145.8	632	385	1,017	211	128	339	6	14	23
E07000133	Melton	Leicestershire	East Midlands	ENG	145.6	53.8	94.8	117	56	173	39	19	58	137	190	237
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	154.7	70.1	109.9	221	121	342	74	40	114	76	115	209
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	161.6	56.6	103.2	140	72	212	47	24	71	104	151	233
E07000136	Boston	Lincolnshire	East Midlands	ENG	173.2	78.8	121.0	172	101	273	57	34	91	36	62	80
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	186.2	79.4	128.8	529	271	800	176	90	267	24	44	32
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	172.4	92.8	126.9	181	129	310	60	43	103	27	49	67
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	192.6	87.0	135.2	435	252	687	145	84	229	20	31	65
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	127.7	58.1	89.6	243	138	381	81	46	127	171	230	253
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	168.6	72.3	116.0	430	228	658	143	76	219	47	78	113
E07000140	South Holland	Lincolnshire	East Midlands	ENG	159.8	74.0	114.5	257	148	405	86	49	135	55	89	136
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	146.9	50.8	94.2	329	149	478	110	50	159	142	195	227
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	153.8	55.6	100.4	245	108	353	82	36	118	114	165	137
E08000011	Knowsley	Merseyside	North West	ENG	170.8	76.7	118.5	313	177	490	104	59	163	42	70	3
E08000012	Liverpool	Merseyside	North West	ENG	172.7	66.4	113.4	884	431	1,315	295	144	438	59	94	4
E08000014	Sefton	Merseyside	North West	ENG	148.5	62.1	100.6	646	378	1,024	215	126	341	113	164	86
E08000013	St. Helens	Merseyside	North West	ENG	160.8	71.4	112.4	412	226	638	137	75	213	67	102	39
E08000015	Wirral	Merseyside	North West	ENG	146.0	52.6	93.8	688	334	1,022	229	111	341	144	198	75
E07000143	Breckland	Norfolk	East of England	ENG	124.1	51.1	84.2	297	161	458	99	54	153	197	261	116

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2020/2022			Average number of annual CHD deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1 = most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E07000144	Broadland	Norfolk	East of England	ENG	104.9	51.0	75.3	249	163	412	83	54	137	246	311	244
E07000145	Great Yarmouth	Norfolk	East of England	ENG	171.5	64.0	113.7	283	131	414	94	44	138	57	92	25
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	123.4	55.1	86.2	331	192	523	110	64	174	183	246	76
E07000147	North Norfolk	Norfolk	East of England	ENG	135.2	56.5	91.5	315	177	492	105	59	164	158	214	95
E07000148	Norwich	Norfolk	East of England	ENG	151.2	69.4	106.1	230	141	371	77	47	124	89	132	60
E07000149	South Norfolk	Norfolk	East of England	ENG	105.4	45.8	72.6	250	146	396	83	49	132	258	323	219
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	126.9	48.7	84.3	569	272	841	190	91	280	195	259	148
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	134.3	48.1	87.0	677	301	978	226	100	326	181	244	178
E06000057	Northumberland	Northumberland	North East	ENG	145.7	57.3	96.7	771	391	1,162	257	130	387	131	183	122
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	154.0	74.4	110.5	261	158	419	87	53	140	74	112	59
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	161.1	70.9	112.2	289	156	445	96	52	148	69	104	105
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	154.3	68.5	107.2	254	148	402	85	49	134	85	127	213
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	154.8	64.3	105.3	263	148	411	88	49	137	95	141	199
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	187.2	65.4	120.0	271	122	393	90	41	131	38	64	56
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	154.6	61.0	104.4	293	144	437	98	48	146	102	148	140
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	220.6	89.3	148.6	611	315	926	204	105	309	4	11	11
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	123.8	47.0	80.9	219	120	339	73	40	113	217	282	294
E07000177	Cherwell	Oxfordshire	South East	ENG	103.9	44.8	71.7	205	116	321	68	39	107	263	328	211
E07000178	Oxford	Oxfordshire	South East	ENG	103.4	44.3	69.8	139	84	223	46	28	74	271	336	183
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	107.5	39.6	69.5	227	115	342	76	38	114	273	338	284
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	105.6	36.1	67.4	204	95	299	68	32	100	280	345	286
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	119.8	41.6	75.5	205	99	304	68	33	101	242	307	282
E06000017	Rutland	East Midlands	East Midlands	ENG	128.2	48.4	85.9	92	46	138	31	15	46	185	248	279
E06000051	Shropshire	Shropshire	West Midlands	ENG	114.7	46.8	78.2	647	340	987	216	113	329	231	296	157
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	167.5	68.8	113.0	370	188	558	123	63	186	62	97	94
E06000022	Bath and North East Somerset	Somerset	South West	ENG	124.8	44.7	79.9	323	164	487	108	55	162	221	286	257
E06000024	North Somerset	Somerset	South West	ENG	102.3	50.2	73.8	359	238	597	120	79	199	256	321	208
E06000066	Somerset	Somerset	South West	ENG	125.1	46.9	81.8	1,198	610	1,808	399	203	603	212	276	139
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	154.5	86.2	117.8	205	145	350	68	48	117	43	73	120
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	158.1	65.5	106.7	250	136	386	83	45	129	87	130	150
E07000194	Lichfield	Staffordshire	West Midlands	ENG	134.5	54.8	90.0	220	119	339	73	40	113	167	226	235
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	172.2	72.9	117.3	310	174	484	103	58	161	45	76	141
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	149.0	47.6	92.7	281	113	394	94	38	131	149	204	220
E07000197	Stafford	Staffordshire	West Midlands	ENG	139.0	55.7	93.6	303	153	456	101	51	152	146	200	222
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	160.1	63.8	107.2	269	138	407	90	46	136	84	126	195
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	194.0	86.9	137.5	609	336	945	203	112	315	12	23	12
E07000199	Tamworth	Staffordshire	West Midlands	ENG	142.9	67.0	101.3	137	81	218	46	27	73	110	161	119
E07000200	Babergh	Suffolk	East of England	ENG	105.5	39.2	69.2	174	88	262	58	29	87	274	339	203
E07000244	East Suffolk	Suffolk	East of England	ENG	132.9	52.8	88.8	615	329	944	205	110	315	175	235	151
E07000202	Ipswich	Suffolk	East of England	ENG	117.9	55.6	83.8	193	124	317	64	41	106	204	268	69
E07000203	Mid Suffolk	Suffolk	East of England	ENG	114.4	48.1	77.7	199	106	305	66	35	102	233	298	221
E07000245	West Suffolk	Suffolk	East of England	ENG	138.3	51.0	89.7	354	173	527	118	58	176	169	228	168
E07000207	Elmbridge	Surrey	South East	ENG	101.9	40.7	66.5	181	114	295	60	38	98	282	347	291
E07000208	Epsom and Ewell	Surrey	South East	ENG	79.9	37.3	55.9	81	53	134	27	18	45	294	359	281
E07000209	Guildford	Surrey	South East	ENG	105.8	44.7	71.0	186	113	299	62	38	100	266	331	277
E07000210	Mole Valley	Surrey	South East	ENG	91.0	39.4	61.9	132	82	214	44	27	71	291	356	275
E07000211	Reigate and Banstead	Surrey	South East	ENG	98.4	40.9	66.7	188	117	305	63	39	102	281	346	260
E07000212	Runnymede	Surrey	South East	ENG	131.5	49.1	85.3	145	76	221	48	25	74	187	250	246
E07000213	Spelthorne	Surrey	South East	ENG	126.0	49.6	83.9	168	90	258	56	30	86	203	267	192

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2020/2022			Average number of annual CHD deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1 = most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E07000214	Surrey Heath	Surrey	South East	ENG	99.9	48.3	71.4	127	89	216	42	30	72	264	329	290
E07000215	Tandridge	Surrey	South East	ENG	95.0	31.4	59.3	123	55	178	41	18	59	292	357	242
E07000216	Waverley	Surrey	South East	ENG	114.8	44.9	74.4	228	136	364	76	45	121	252	317	293
E07000217	Woking	Surrey	South East	ENG	102.2	48.7	74.2	130	86	216	43	29	72	253	318	263
E08000037	Gateshead	Tyne & Wear	North East	ENG	159.0	62.9	106.7	435	224	659	145	75	220	86	129	53
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	151.2	65.8	104.4	476	270	746	159	90	249	101	147	70
E08000022	Tyne & Wear	North Tyneside	North East	ENG	160.3	70.0	108.9	449	269	718	150	90	239	78	117	123
E08000023	South Tyneside	Tyne & Wear	North East	ENG	156.5	75.8	112.7	326	208	534	109	69	178	65	100	26
E08000024	Sunderland	Tyne & Wear	North East	ENG	158.6	61.1	105.2	605	293	898	202	98	299	96	142	33
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	145.9	54.3	96.4	146	64	210	49	21	70	132	185	147
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	171.9	65.0	113.6	305	142	447	102	47	149	58	93	98
E07000220	Rugby	Warwickshire	West Midlands	ENG	154.6	49.8	97.5	232	91	323	77	30	108	126	178	212
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	106.3	44.3	72.3	248	139	387	83	46	129	259	324	245
E07000222	Warwick	Warwickshire	West Midlands	ENG	116.6	52.1	81.3	230	137	367	77	46	122	215	280	249
E08000025	Birmingham	West Midlands	West Midlands	ENG	178.8	69.8	118.9	1,958	994	2,952	653	331	984	40	67	7
E08000026	Coventry	West Midlands	West Midlands	ENG	167.2	69.6	115.1	612	327	939	204	109	313	51	83	72
E08000027	Dudley	West Midlands	West Midlands	ENG	179.6	74.9	121.6	808	446	1,254	269	149	418	34	60	99
E08000028	Sandwell	West Midlands	West Midlands	ENG	206.6	93.9	145.0	743	432	1,175	248	144	392	8	16	6
E08000029	Solihull	West Midlands	West Midlands	ENG	134.9	47.4	85.8	426	210	636	142	70	212	186	249	196
E08000030	Walsall	West Midlands	West Midlands	ENG	187.1	78.9	128.0	658	350	1,008	219	117	336	26	46	28
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	201.2	83.4	135.9	624	332	956	208	111	319	17	28	18
E07000223	Adur	West Sussex	South East	ENG	133.6	57.4	90.1	134	83	217	45	28	72	165	224	154
E07000224	Arun	West Sussex	South East	ENG	134.8	56.6	91.9	412	263	675	137	88	225	154	210	144
E07000225	Chichester	West Sussex	South East	ENG	117.1	44.5	76.3	265	146	411	88	49	137	239	304	204
E07000226	Crawley	West Sussex	South East	ENG	143.7	50.1	91.9	165	75	240	55	25	80	153	209	127
E07000227	Horsham	West Sussex	South East	ENG	104.3	42.4	70.6	243	139	382	81	46	127	268	333	271
E07000228	Mid Sussex	West Sussex	South East	ENG	112.7	39.3	71.2	246	123	369	82	41	123	265	330	292
E07000229	Worthing	West Sussex	South East	ENG	130.4	49.6	84.2	222	130	352	74	43	117	198	262	161
E06000030	Swindon	Wiltshire	South West	ENG	143.9	59.3	97.4	385	196	581	128	65	194	127	179	162
E06000054	Wiltshire	Wiltshire	South West	ENG	122.9	48.9	81.7	926	514	1,440	309	171	480	213	277	223
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	137.8	44.5	84.4	215	96	311	72	32	104	192	256	255
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	120.0	45.6	78.8	182	98	280	61	33	93	227	292	181
E07000236	Redditch	Worcestershire	West Midlands	ENG	145.2	60.5	98.8	156	78	234	52	26	78	120	171	114
E07000237	Worcester	Worcestershire	West Midlands	ENG	137.7	63.7	97.0	174	105	279	58	35	93	130	182	149
E07000238	Wychavon	Worcestershire	West Midlands	ENG	122.3	41.5	78.6	276	119	395	92	40	132	229	294	179
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	139.5	56.7	94.4	237	124	361	79	41	120	140	193	107
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	142.4	64.2	99.8	860	504	1,364	287	168	455	117	168	207
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	211.9	92.1	146.6	601	327	928	200	109	309	5	13	9
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	170.3	95.7	129.6	283	202	485	94	67	162	22	42	16
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	137.3	62.5	96.0	1,417	857	2,274	472	286	758	134	187	210
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	163.5	60.1	106.6	352	161	513	117	54	171	88	131	62
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	152.5	62.7	101.3	391	235	626	130	78	209	109	160	259
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	176.4	77.2	122.3	574	310	884	191	103	295	32	58	38
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	190.7	91.9	136.9	791	475	1,266	264	158	422	15	26	40
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	169.9	82.1	122.4	614	363	977	205	121	326	31	57	49
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	167.0	72.1	114.6	1,100	628	1,728	367	209	576	54	87	88
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	210.3	93.3	145.4	1,211	698	1,909	404	233	636	7	15	21
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	163.5	72.9	113.0	425	251	676	142	84	225	63	98	73
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	158.1	76.2	112.8	820	513	1,333	273	171	444	64	99	82

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2020/2022			Average number of annual CHD deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1 = most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	155.1	64.4	104.7	1,362	753	2,115	454	251	705	99	145	85
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	176.7	69.6	117.4	793	395	1,188	264	132	396	44	75	61
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	131.3	61.0	91.1	220	136	356	73	45	119	8	217	10
N09000011	Ards and North Down		Northern Ireland	NI	114.5	54.2	81.5	269	168	437	90	56	146	11	279	9
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	137.8	57.7	92.2	316	181	497	105	60	166	7	208	7
N09000003	Belfast		Northern Ireland	NI	162.0	70.2	110.0	570	351	921	190	117	307	1	114	4
N09000004	Causeway Coast and Glens		Northern Ireland	NI	129.6	63.6	93.4	236	151	387	79	50	129	6	201	5
N09000005	Derry City and Strabane		Northern Ireland	NI	157.3	61.6	102.8	244	118	362	81	39	121	2	153	1
N09000006	Fermanagh and Omagh		Northern Ireland	NI	152.8	63.9	102.2	211	115	326	70	38	109	3	155	2
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	122.6	53.7	84.5	220	132	352	73	44	117	10	255	11
N09000008	Mid and East Antrim		Northern Ireland	NI	137.8	60.4	94.0	245	148	393	82	49	131	5	197	8
N09000009	Mid Ulster		Northern Ireland	NI	134.2	75.0	101.8	204	147	351	68	49	117	4	157	6
N09000010	Newry, Mourne and Down		Northern Ireland	NI	134.2	56.7	90.3	268	149	417	89	50	139	9	222	3
S12000033	Aberdeen City		Scotland	SCO	174.9	80.7	123.0	441	279	720	147	93	240	20	55	26
S12000034	Aberdeenshire		Scotland	SCO	154.0	77.2	111.4	545	341	886	182	114	295	24	106	30
S12000041	Angus		Scotland	SCO	140.1	83.9	108.4	259	204	463	86	68	154	26	118	20
S12000035	Argyll and Bute		Scotland	SCO	154.0	67.5	107.9	238	126	364	79	42	121	27	122	19
S12000036	City of Edinburgh		Scotland	SCO	163.4	75.5	114.3	908	576	1,484	303	192	495	23	90	29
S12000005	Clackmannanshire		Scotland	SCO	236.9	121.1	173.1	163	102	265	54	34	88	1	1	8
S12000006	Dumfries and Galloway		Scotland	SCO	180.5	88.5	129.9	459	288	747	153	96	249	15	41	12
S12000042	Dundee City		Scotland	SCO	203.8	91.6	141.5	367	223	590	122	74	197	9	18	6
S12000008	East Ayrshire		Scotland	SCO	223.3	118.7	165.6	372	247	619	124	82	206	2	3	7
S12000045	East Dunbartonshire		Scotland	SCO	129.6	58.3	88.5	217	137	354	72	46	118	32	238	31
S12000010	East Lothian		Scotland	SCO	158.1	67.5	107.1	243	136	379	81	45	126	28	128	22
S12000011	East Renfrewshire		Scotland	SCO	127.6	57.1	88.4	175	114	289	58	38	96	31	241	32
S12000014	Falkirk		Scotland	SCO	205.8	107.3	151.3	421	280	701	140	93	234	4	7	16
S12000047	Fife		Scotland	SCO	183.7	81.4	127.0	954	548	1,502	318	183	501	16	47	17
S12000049	Glasgow City		Scotland	SCO	219.1	110.0	158.5	1,309	868	2,177	436	289	726	3	5	2
S12000017	Highland		Scotland	SCO	187.0	79.0	127.0	662	361	1,023	221	120	341	17	48	18
S12000018	Inverclyde		Scotland	SCO	189.5	88.6	132.1	210	137	347	70	46	116	13	37	4
S12000019	Midlothian		Scotland	SCO	174.4	71.0	114.6	195	105	300	65	35	100	22	88	14
S12000020	Moray		Scotland	SCO	152.1	76.5	111.3	213	139	352	71	46	117	25	108	23
S12000013	Na h-Eileanan Siar		Scotland	SCO	192.8	104.9	147.6	90	63	153	30	21	51	7	12	10
S12000021	North Ayrshire		Scotland	SCO	196.3	103.0	144.9	397	266	663	132	89	221	8	17	3
S12000050	North Lanarkshire		Scotland	SCO	215.6	100.9	151.2	858	509	1,367	286	170	456	5	8	5
S12000023	Orkney Islands		Scotland	SCO	149.4	65.9	104.1	52	31	83	17	10	28	29	149	24
S12000048	Perth and Kinross		Scotland	SCO	143.4	67.0	101.6	355	217	572	118	72	191	30	158	28
S12000038	Renfrewshire		Scotland	SCO	185.4	76.7	125.2	448	238	686	149	79	229	19	52	9
S12000026	Scottish Borders		Scotland	SCO	155.2	78.4	114.7	311	197	508	104	66	169	21	86	21
S12000027	Shetland Islands		Scotland	SCO	149.8	105.0	130.2	52	42	94	17	14	31	14	39	25
S12000028	South Ayrshire		Scotland	SCO	198.2	84.7	135.2	379	215	594	126	72	198	10	32	13
S12000029	South Lanarkshire		Scotland	SCO	185.3	81.1	125.9	777	457	1,234	259	152	411	18	51	11
S12000030	Stirling		Scotland	SCO	201.1	83.7	134.1	244	135	379	81	45	126	12	35	27
S12000039	West Dunbartonshire		Scotland	SCO	209.3	103.0	149.9	237	152	389	79	51	130	6	10	1
S12000040	West Lothian		Scotland	SCO	177.1	100.0	134.9	370	251	621	123	84	207	11	33	15
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	171.0	59.8	111.0	365	173	538	122	58	179	13	110	17
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	172.1	68.5	118.2	291	151	442	97	50	147	9	71	9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	157.9	67.0	107.7	358	186	544	119	62	181	14	123	20
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	175.4	81.1	123.2	335	192	527	112	64	176	6	54	14

Table 1.27 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), all ages by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised CHD death rates per 100,000 - Annual Average (3-Year)			Total number of CHD deaths 2020/2022			Average number of annual CHD deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1 = most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	169.9	73.0	117.5	515	292	807	172	97	269	11	74	8
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	144.3	73.5	105.3	180	120	300	60	40	100	17	140	16
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	167.5	74.7	118.0	364	210	574	121	70	191	10	72	12
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	233.1	117.3	169.3	212	131	343	71	44	114	1	2	1
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	205.2	79.6	138.6	486	246	732	162	82	244	2	20	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	141.8	48.5	91.4	236	115	351	79	38	117	20	216	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	191.2	79.7	130.1	366	194	560	122	65	187	5	40	5
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	181.9	84.1	130.2	236	146	382	79	49	127	4	38	7
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	164.9	69.5	115.4	304	187	491	101	62	164	12	80	18
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	150.5	67.9	105.9	178	110	288	59	37	96	15	133	15
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	126.5	55.9	88.8	262	157	419	87	52	140	21	234	10
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	197.4	64.2	133.6	151	68	219	50	23	73	3	36	2
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	152.0	70.3	105.9	479	270	749	160	90	250	16	134	4
W06000023	Powys	Powys	Wales / Cymru	WAL	143.0	54.6	97.9	368	179	547	123	60	182	18	177	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	147.9	54.8	96.7	546	274	820	182	91	273	19	184	11
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	135.2	50.4	88.2	261	136	397	87	45	132	22	242	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	162.9	80.8	119.5	338	203	541	113	68	180	7	66	3
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	176.5	70.3	118.5	589	313	902	196	104	301	8	69	13

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population. Some of the data for England and Wales have been suppressed.
 * indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)
 Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area
 UK local authorities correct April 2024

Totals for male & female deaths may not equal total due to suppression of age-band cohorts in Nomis data - England & Wales only

Citation: BHF (2024) Analysis of official UK mortality data

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

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

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

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

Scotland: Mortality rates calculated in partnership with NRS (National Records of Scotland)

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

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

England: Average IMD ranks taken from English Indices of Deprivation

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

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

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

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

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

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

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					UNDER 75													ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2020/22			Average number of annual prem CHD deaths - 2020/22									
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N				
E06000055	Bedford	Bedfordshire	East of England	ENG	63.6	18.9	40.7	143	44	187	48	15	62	121	165	152				
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	48.4	15.1	31.3	184	61	245	61	20	82	208	269	247				
E06000032	Luton	Bedfordshire	East of England	ENG	73.9	23.7	48.8	158	50	208	53	17	69	62	90	51				
E06000036	Bracknell Forest	Berkshire	South East	ENG	57.1	18.4	37.1	84	28	112	28	9	37	154	205	265				
E06000038	Reading	Berkshire	South East	ENG	67.9	18.0	42.7	115	30	145	38	10	48	108	146	132				
E06000039	Slough	Berkshire	South East	ENG	93.5	38.9	66.3	133	53	186	44	18	62	9	16	74				
E06000037	West Berkshire	Berkshire	South East	ENG	45.3	14.2	29.4	100	33	133	33	11	44	225	289	272				
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	48.2	11.7	29.5	95	24	119	32	8	40	224	288	285				
E06000041	Wokingham	Berkshire	South East	ENG	42.1	10.1	25.8	91	23	114	30	8	38	261	326	295				
E06000023	Bristol, City of	Bristol	South West	ENG	61.7	18.5	39.9	286	86	372	95	29	124	134	181	77				
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	44.0	11.1	27.1	314	83	397	105	28	132	245	309	268				
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	46.0	18.7	31.8	146	63	209	49	21	70	203	264	165				
E07000008	Cambridge	Cambridgeshire	East of England	ENG	48.9	11.9	30.2	61	15	76	20	5	25	219	282	198				
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	39.2	16.0	27.3	48	21	69	16	7	23	242	306	250				
E07000010	Fenland	Cambridgeshire	East of England	ENG	73.5	20.9	46.5	109	33	142	36	11	47	84	117	50				
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	52.9	16.3	34.2	133	43	176	44	14	59	179	235	236				
E06000031	Peterborough	Cambridgeshire	East of England	ENG	78.5	18.7	47.7	179	44	223	60	15	74	72	100	52				
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	38.6	9.2	23.4	82	21	103	27	7	34	281	346	283				
E06000049	Cheshire East	Cheshire	North West	ENG	60.2	17.1	38.1	351	106	457	117	35	152	146	196	217				
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	60.5	14.9	37.1	306	80	386	102	27	129	155	206	170				
E06000006	Halton	Cheshire	North West	ENG	94.9	36.8	64.9	168	70	238	56	23	79	14	23	41				
E06000007	Warrington	Cheshire	North West	ENG	77.6	25.1	50.9	222	74	296	74	25	99	51	76	163				
E06000052	Cornwall	Cornwall	South West	ENG	60.1	16.1	37.2	541	161	702	180	54	234	153	204	79				
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232				
E06000047	County Durham	County Durham	North East	ENG	72.3	29.2	50.2	549	236	785	183	79	262	53	79	68				
E06000005	Darlington	County Durham	North East	ENG	65.3	16.5	40.3	99	27	126	33	9	42	127	172	100				
E06000001	Hartlepool	County Durham	North East	ENG	80.5	27.5	53.5	106	37	143	35	12	48	41	61	27				
E06000004	Stockton-on-Tees	County Durham	North East	ENG	61.1	21.8	40.9	164	62	226	55	21	75	119	163	112				
E06000063	Cumberland	Cumbria	North West	ENG	70.8	23.3	46.7	300	102	402	100	34	134	80	113	103				
E06000064	Westmorland and Furness	Cumbria	North West	ENG	57.2	13.3	34.8	214	54	268	71	18	89	176	231	160				
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	65.8	15.2	40.1	128	31	159	43	10	53	130	176	158				
E07000033	Bolsover	Derbyshire	East Midlands	ENG	72.9	21.7	46.9	84	26	110	28	9	37	77	110	57				
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	67.5	23.1	44.7	103	37	140	34	12	47	92	129	81				
E06000015	Derby	Derbyshire	East Midlands	ENG	76.6	22.7	49.2	231	71	302	77	24	101	58	85	84				
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	53.9	*	29.9	70	*	79	23	*	26	222	285	248				
E07000036	Erewash	Derbyshire	East Midlands	ENG	61.8	25.9	43.4	99	43	142	33	14	47	101	138	159				
E07000037	High Peak	Derbyshire	East Midlands	ENG	59.0	28.0	43.4	85	41	126	28	14	42	102	139	193				
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	56.4	18.1	36.7	90	32	122	30	11	41	157	209	166				
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	66.8	15.6	40.6	97	24	121	32	8	40	123	168	215				
E07000040	East Devon	Devon	South West	ENG	37.9	10.3	23.3	92	29	121	31	10	40	282	347	226				
E07000041	Exeter	Devon	South West	ENG	58.6	14.9	35.9	83	23	106	28	8	35	163	218	182				
E07000042	Mid Devon	Devon	South West	ENG	31.9	12.5	21.9	41	17	58	14	6	19	285	350	155				
E07000043	North Devon	Devon	South West	ENG	61.1	16.5	38.1	93	26	119	31	9	40	147	198	117				
E06000026	Plymouth	Devon	South West	ENG	68.7	19.2	43.3	230	68	298	77	23	99	104	141	71				
E07000044	South Hams	Devon	South West	ENG	34.5	7.7	20.6	55	13	68	18	4	23	291	356	206				
E07000045	Teignbridge	Devon	South West	ENG	54.9	11.4	32.1	121	29	150	40	10	50	200	261	175				
E06000027	Torbay	Devon	South West	ENG	67.8	12.9	39.6	149	30	179	50	10	60	135	183	48				
E07000046	Torridge	Devon	South West	ENG	38.9	16.7	27.3	45	21	66	15	7	22	244	308	66				
E07000047	West Devon	Devon	South West	ENG	52.3	10.3	30.7	51	12	63	17	4	21	215	278	130				

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					UNDER 75													ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2020/22			Average number of annual prem CHD deaths - 2020/22									
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N				
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	57.6	14.0	35.1	306	81	387	102	27	129	172	227	156				
E06000059	Dorset	Dorset	South West	ENG	47.0	11.0	28.3	307	85	392	102	28	131	232	296	187				
E06000043	Brighton and Hove	East Sussex	South East	ENG	54.4	12.4	33.3	169	37	206	56	12	69	186	244	131				
E07000061	Eastbourne	East Sussex	South East	ENG	43.3	12.4	26.9	62	21	83	21	7	28	249	313	104				
E07000062	Hastings	East Sussex	South East	ENG	69.8	24.7	46.6	91	34	125	30	11	42	83	116	14				
E07000063	Lewes	East Sussex	South East	ENG	50.1	8.9	28.4	78	16	94	26	5	31	231	295	184				
E07000064	Rother	East Sussex	South East	ENG	44.8	11.1	27.0	74	21	95	25	7	32	248	312	126				
E07000065	Wealden	East Sussex	South East	ENG	34.6	9.4	21.3	90	27	117	30	9	39	287	352	238				
E07000066	Basildon	Essex	East of England	ENG	59.2	20.5	38.9	131	50	181	44	17	60	142	190	106				
E07000067	Braintree	Essex	East of England	ENG	46.2	14.5	29.9	100	34	134	33	11	45	223	286	194				
E07000068	Brentwood	Essex	East of England	ENG	54.6	12.0	32.6	54	13	67	18	4	22	194	254	269				
E07000069	Castle Point	Essex	East of England	ENG	55.1	15.2	33.9	73	22	95	24	7	32	181	238	172				
E07000070	Chelmsford	Essex	East of England	ENG	50.6	15.7	32.7	118	39	157	39	13	52	193	253	241				
E07000071	Colchester	Essex	East of England	ENG	41.9	19.2	30.1	97	48	145	32	16	48	220	283	173				
E07000072	Epping Forest	Essex	East of England	ENG	59.2	13.6	35.5	104	26	130	35	9	43	169	224	191				
E07000073	Harlow	Essex	East of England	ENG	74.0	20.8	46.6	76	22	98	25	7	33	82	115	97				
E07000074	Maldon	Essex	East of England	ENG	39.1	8.6	23.4	42	10	52	14	3	17	280	345	197				
E07000075	Rochford	Essex	East of England	ENG	48.3	11.2	29.0	61	16	77	20	5	26	227	291	267				
E06000033	Southend-on-Sea	Essex	East of England	ENG	66.6	22.8	43.9	154	57	211	51	19	70	98	135	115				
E07000076	Tendring	Essex	East of England	ENG	57.1	22.6	39.1	140	65	205	47	22	68	140	188	34				
E06000034	Thurrock	Essex	East of England	ENG	71.7	23.4	46.9	133	44	177	44	15	59	75	108	110				
E07000077	Uttlesford	Essex	East of England	ENG	38.3	11.2	24.5	49	15	64	16	5	21	271	336	276				
E07000078	Cheltenham	Gloucestershire	South West	ENG	65.9	19.6	41.9	98	31	129	33	10	43	112	152	228				
E07000079	Cotswold	Gloucestershire	South West	ENG	49.3	12.2	30.0	69	19	88	23	6	29	221	284	258				
E07000080	Forest of Dean	Gloucestershire	South West	ENG	67.4	18.7	42.4	91	28	119	30	9	40	110	149	135				
E07000081	Gloucester	Gloucestershire	South West	ENG	82.8	23.5	52.4	131	39	170	44	13	57	45	66	128				
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	42.0	11.7	26.5	151	45	196	50	15	65	255	319	251				
E07000082	Stroud	Gloucestershire	South West	ENG	56.3	17.8	36.5	105	36	141	35	12	47	160	214	261				
E07000083	Tewkesbury	Gloucestershire	South West	ENG	64.5	13.6	38.1	86	20	106	29	7	35	148	199	243				
E09000002	Barking and Dagenham	Greater London	London	ENG	104.7	28.5	64.9	181	50	231	60	17	77	15	24	5				
E09000003	Barnet	Greater London	London	ENG	49.9	15.7	32.0	205	68	273	68	23	91	202	263	171				
E09000004	Bexley	Greater London	London	ENG	48.1	15.5	31.1	138	47	185	46	16	62	210	272	177				
E09000005	Brent	Greater London	London	ENG	73.3	16.0	43.3	240	56	296	80	19	99	103	140	47				
E09000006	Bromley	Greater London	London	ENG	49.9	15.9	32.1	198	69	267	66	23	89	201	262	218				
E09000007	Camden	Greater London	London	ENG	69.0	21.0	43.5	131	45	176	44	15	59	100	137	125				
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189				
E09000008	Croydon	Greater London	London	ENG	55.0	16.0	34.5	230	70	300	77	23	100	177	233	96				
E09000009	Ealing	Greater London	London	ENG	70.1	14.9	41.6	259	54	313	86	18	104	116	157	87				
E09000010	Enfield	Greater London	London	ENG	66.9	14.2	39.0	229	54	283	76	18	94	141	189	58				
E09000011	Greenwich	Greater London	London	ENG	72.3	26.0	48.4	190	69	259	63	23	86	65	93	63				
E09000012	Hackney	Greater London	London	ENG	81.7	16.3	46.9	160	33	193	53	11	64	76	109	8				
E09000013	Hammersmith and Fulham	Greater London	London	ENG	64.1	19.5	40.0	94	34	128	31	11	43	132	178	93				
E09000014	Haringey	Greater London	London	ENG	82.7	19.3	48.8	202	51	253	67	17	84	61	89	36				
E09000015	Harrow	Greater London	London	ENG	44.0	9.4	25.9	125	29	154	42	10	51	258	322	188				
E09000016	Havering	Greater London	London	ENG	49.7	14.1	31.1	156	47	203	52	16	68	211	273	167				
E09000017	Hillingdon	Greater London	London	ENG	69.7	13.9	41.3	223	44	267	74	15	89	117	159	138				
E09000018	Hounslow	Greater London	London	ENG	64.9	17.4	40.5	185	50	235	62	17	78	124	169	90				
E09000019	Islington	Greater London	London	ENG	72.2	22.8	46.3	127	42	169	42	14	56	85	118	29				
E09000020	Kensington and Chelsea	Greater London	London	ENG	51.3	7.9	27.8	79	14	93	26	5	31	238	302	118				

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					UNDER 75											
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2020/22			Average number of annual prem CHD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E09000021	Kingston upon Thames	Greater London	London	ENG	42.5	12.6	27.0	77	24	101	26	8	34	246	310	252
E09000022	Lambeth	Greater London	London	ENG	75.3	13.9	43.2	197	40	237	66	13	79	105	142	43
E09000023	Lewisham	Greater London	London	ENG	75.2	24.4	48.1	184	65	249	61	22	83	68	96	35
E09000024	Merton	Greater London	London	ENG	44.0	9.2	25.6	93	21	114	31	7	38	263	328	205
E09000025	Newham	Greater London	London	ENG	88.0	21.4	53.3	235	58	293	78	19	98	42	63	13
E09000026	Redbridge	Greater London	London	ENG	69.8	19.6	44.0	212	62	274	71	21	91	96	133	153
E09000027	Richmond upon Thames	Greater London	London	ENG	37.9	11.3	23.9	87	28	115	29	9	38	276	341	278
E09000028	Southwark	Greater London	London	ENG	63.3	18.9	40.0	146	49	195	49	16	65	133	179	45
E09000029	Sutton	Greater London	London	ENG	48.4	14.2	30.6	114	35	149	38	12	50	217	280	216
E09000030	Tower Hamlets	Greater London	London	ENG	89.6	21.8	54.4	157	39	196	52	13	65	37	57	30
E09000031	Waltham Forest	Greater London	London	ENG	64.7	20.7	41.6	163	53	216	54	18	72	115	156	44
E09000032	Wandsworth	Greater London	London	ENG	48.5	11.5	28.8	118	30	148	39	10	49	229	293	164
E09000033	Westminster	Greater London	London	ENG	53.1	13.1	32.3	107	28	135	36	9	45	197	258	134
E08000001	Bolton	Greater Manchester	North West	ENG	98.9	33.1	65.5	365	126	491	122	42	164	10	18	42
E08000002	Bury	Greater Manchester	North West	ENG	73.4	24.2	48.2	184	64	248	61	21	83	67	95	102
E08000003	Manchester	Greater Manchester	North West	ENG	109.4	40.3	75.0	518	183	701	173	61	234	2	3	2
E08000004	Oldham	Greater Manchester	North West	ENG	101.7	30.5	65.3	286	89	375	95	30	125	12	20	24
E08000005	Rochdale	Greater Manchester	North West	ENG	99.9	34.8	66.6	274	100	374	91	33	125	8	15	17
E08000006	Salford	Greater Manchester	North West	ENG	94.0	23.8	58.8	262	66	328	87	22	109	26	41	20
E08000007	Stockport	Greater Manchester	North West	ENG	73.2	17.6	44.6	287	74	361	96	25	120	93	130	145
E08000008	Tameside	Greater Manchester	North West	ENG	88.7	33.6	60.7	267	104	371	89	35	124	22	34	22
E08000009	Trafford	Greater Manchester	North West	ENG	74.3	21.3	47.0	213	65	278	71	22	93	74	107	201
E08000010	Wigan	Greater Manchester	North West	ENG	71.5	23.4	47.0	322	111	433	107	37	144	73	106	91
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	48.5	17.2	32.6	114	42	156	38	14	52	195	256	234
E07000085	East Hampshire	Hampshire	South East	ENG	30.1	7.3	18.3	57	15	72	19	5	24	294	359	266
E07000086	Eastleigh	Hampshire	South East	ENG	43.9	10.8	26.7	78	21	99	26	7	33	251	315	270
E07000087	Fareham	Hampshire	South East	ENG	31.1	8.7	19.4	54	16	70	18	5	23	293	358	280
E07000088	Gosport	Hampshire	South East	ENG	54.0	18.0	35.4	62	23	85	21	8	28	170	225	121
E07000089	Hart	Hampshire	South East	ENG	34.4	8.2	20.8	44	11	55	15	4	18	290	355	296
E07000090	Havant	Hampshire	South East	ENG	43.7	10.2	26.2	82	20	102	27	7	34	256	320	124
E07000091	New Forest	Hampshire	South East	ENG	42.7	10.3	25.7	121	32	153	40	11	51	262	327	230
E06000044	Portsmouth	Hampshire	South East	ENG	55.9	19.9	37.6	130	47	177	43	16	59	151	202	54
E07000092	Rushmoor	Hampshire	South East	ENG	47.6	23.8	35.0	51	28	79	17	9	26	173	228	186
E06000045	Southampton	Hampshire	South East	ENG	68.1	28.5	48.2	177	73	250	59	24	83	66	94	55
E07000093	Test Valley	Hampshire	South East	ENG	45.4	11.3	27.9	83	22	105	28	7	35	237	301	240
E07000094	Winchester	Hampshire	South East	ENG	40.5	7.8	23.6	69	14	83	23	5	28	278	343	274
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	61.9	19.3	40.1	186	62	248	62	21	83	131	177	129
E07000095	Broxbourne	Hertfordshire	East of England	ENG	55.6	12.4	32.8	64	16	80	21	5	27	192	252	142
E07000096	Dacorum	Hertfordshire	East of England	ENG	43.1	12.8	27.5	82	26	108	27	9	36	240	304	229
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	46.7	11.9	28.9	92	25	117	31	8	39	228	292	288
E07000098	Hertsmere	Hertfordshire	East of England	ENG	44.2	10.0	26.1	57	14	71	19	5	24	257	321	214
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	52.8	16.2	33.8	91	30	121	30	10	40	183	240	254
E07000240	St Albans	Hertfordshire	East of England	ENG	37.7	8.0	22.4	67	15	82	22	5	27	283	348	287
E07000243	Stevenage	Hertfordshire	East of England	ENG	60.9	20.0	40.2	64	21	85	21	7	28	128	173	111
E07000102	Three Rivers	Hertfordshire	East of England	ENG	39.0	*	22.1	46	*	54	15	*	18	284	349	273
E07000103	Watford	Hertfordshire	East of England	ENG	37.2	11.6	24.3	39	11	50	13	4	17	273	338	185
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	46.2	9.5	27.4	62	13	75	21	4	25	241	305	202
E06000046	Isle of Wight	Isle of Wight	South East	ENG	39.2	12.0	25.0	95	31	126	32	10	42	266	331	78
E07000105	Ashford	Kent	South East	ENG	47.9	15.3	31.0	84	29	113	28	10	38	212	274	143

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					UNDER 75												ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2020/22			Average number of annual prem CHD deaths - 2020/22								
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N			
E07000106	Canterbury	Kent	South East	ENG	53.8	12.9	32.4	113	31	144	38	10	48	196	257	176			
E07000107	Dartford	Kent	South East	ENG	52.1	12.4	31.6	62	16	78	21	5	26	205	266	133			
E07000108	Dover	Kent	South East	ENG	52.5	20.0	35.7	93	39	132	31	13	44	165	220	101			
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	61.9	21.3	41.0	104	38	142	35	13	47	118	162	83			
E07000109	Gravesham	Kent	South East	ENG	65.3	14.7	39.1	83	20	103	28	7	34	139	187	109			
E07000110	Maidstone	Kent	South East	ENG	51.9	11.4	31.2	118	28	146	39	9	49	209	270	174			
E06000035	Medway	Kent	South East	ENG	72.3	21.3	46.1	247	76	323	82	25	108	86	121	92			
E07000111	Sevenoaks	Kent	South East	ENG	41.1	8.3	24.1	68	15	83	23	5	28	275	340	239			
E07000113	Swale	Kent	South East	ENG	58.8	19.6	38.8	120	41	161	40	14	54	143	192	64			
E07000114	Thanet	Kent	South East	ENG	62.4	18.2	39.3	127	42	169	42	14	56	137	185	37			
E07000115	Tonbridge and Malling	Kent	South East	ENG	46.0	11.7	28.2	79	21	100	26	7	33	234	298	224			
E07000116	Tunbridge Wells	Kent	South East	ENG	46.2	*	25.2	70	*	79	23	*	26	265	330	256			
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	106.8	32.2	69.3	191	57	248	64	19	83	5	10	15			
E06000009	Blackpool	Lancashire	North West	ENG	121.2	34.5	78.1	248	70	318	83	23	106	1	1	1			
E07000117	Burnley	Lancashire	North West	ENG	109.6	33.4	70.9	134	42	176	45	14	59	4	8	10			
E07000118	Chorley	Lancashire	North West	ENG	67.1	24.1	45.4	116	42	158	39	14	53	88	124	180			
E07000119	Fylde	Lancashire	North West	ENG	62.2	17.2	39.2	88	26	114	29	9	38	138	186	190			
E07000120	Hyndburn	Lancashire	North West	ENG	93.7	40.3	66.8	101	44	145	34	15	48	7	14	19			
E07000121	Lancaster	Lancashire	North West	ENG	92.6	23.6	57.1	178	49	227	59	16	76	30	46	108			
E07000122	Pendle	Lancashire	North West	ENG	85.4	28.5	56.6	106	36	142	35	12	47	31	48	31			
E07000123	Preston	Lancashire	North West	ENG	93.2	27.7	60.4	156	46	202	52	15	67	23	37	46			
E07000124	Ribble Valley	Lancashire	North West	ENG	60.3	18.0	38.7	60	19	79	20	6	26	144	193	262			
E07000125	Rossendale	Lancashire	North West	ENG	95.9	32.6	63.6	96	34	130	32	11	43	17	26	89			
E07000126	South Ribble	Lancashire	North West	ENG	63.2	21.7	41.8	103	38	141	34	13	47	114	155	200			
E07000127	West Lancashire	Lancashire	North West	ENG	80.9	23.3	51.1	137	42	179	46	14	60	49	73	169			
E07000128	Wyre	Lancashire	North West	ENG	75.0	23.7	48.5	137	48	185	46	16	62	64	92	146			
E07000129	Blaby	Leicestershire	East Midlands	ENG	47.4	19.1	32.8	67	29	96	22	10	32	190	250	264			
E07000130	Charnwood	Leicestershire	East Midlands	ENG	54.2	14.4	33.9	128	36	164	43	12	55	182	239	231			
E07000131	Harborough	Leicestershire	East Midlands	ENG	48.6	15.1	31.6	71	23	94	24	8	31	206	267	289			
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	50.5	16.0	32.9	86	29	115	29	10	38	189	248	225			
E06000016	Leicester	Leicestershire	East Midlands	ENG	96.6	32.4	64.1	350	118	468	117	39	156	16	25	23			
E07000133	Melton	Leicestershire	East Midlands	ENG	56.1	13.7	34.4	46	12	58	15	4	19	178	234	237			
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	61.3	13.0	36.9	92	20	112	31	7	37	156	207	209			
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	76.2	17.6	45.8	58	15	73	19	5	24	87	122	233			
E07000136	Boston	Lincolnshire	East Midlands	ENG	72.5	27.2	49.2	69	28	97	23	9	32	57	84	80			
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	80.4	26.0	52.3	210	72	282	70	24	94	46	68	32			
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	79.0	42.7	60.7	89	48	137	30	16	46	21	33	67			
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	89.6	26.9	57.6	197	62	259	66	21	86	29	44	65			
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	56.4	16.5	35.7	101	32	133	34	11	44	166	221	253			
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	77.5	29.0	52.9	196	74	270	65	25	90	43	64	113			
E07000140	South Holland	Lincolnshire	East Midlands	ENG	76.4	22.6	48.9	111	34	145	37	11	48	60	88	136			
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	61.6	11.2	35.5	133	26	159	44	9	53	168	223	227			
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	54.9	12.2	33.1	88	21	109	29	7	36	187	245	137			
E08000011	Knowsley	Merseyside	North West	ENG	92.4	33.4	61.4	184	72	256	61	24	85	20	31	3			
E08000012	Liverpool	Merseyside	North West	ENG	86.5	26.0	55.2	479	155	634	160	52	211	35	55	4			
E08000014	Sefton	Merseyside	North West	ENG	73.8	21.6	46.8	300	95	395	100	32	132	79	112	86			
E08000013	St. Helens	Merseyside	North West	ENG	81.8	26.6	53.7	208	72	280	69	24	93	40	60	39			
E08000015	Wirral	Merseyside	North West	ENG	68.3	17.3	41.9	316	87	403	105	29	134	113	153	75			
E07000143	Breckland	Norfolk	East of England	ENG	52.5	12.2	31.8	114	29	143	38	10	48	204	265	116			

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					UNDER 75																
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2020/22			Average number of annual prem CHD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)					
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N					
E07000144	Broadland	Norfolk	East of England	ENG	37.5	12.6	24.6	78	29	107	26	10	36	270	335	244					
E07000145	Great Yarmouth	Norfolk	East of England	ENG	74.9	20.1	46.9	115	33	148	38	11	49	78	111	25					
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	54.2	17.9	35.3	126	46	172	42	15	57	171	226	76					
E07000147	North Norfolk	Norfolk	East of England	ENG	43.8	13.4	28.0	85	28	113	28	9	38	235	299	95					
E07000148	Norwich	Norfolk	East of England	ENG	71.3	25.5	48.0	109	40	149	36	13	50	69	97	60					
E07000149	South Norfolk	Norfolk	East of England	ENG	34.5	8.6	21.2	73	21	94	24	7	31	289	354	219					
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	54.7	13.6	33.6	256	68	324	85	23	108	184	241	148					
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	57.0	16.4	36.2	303	90	393	101	30	131	161	215	178					
E06000057	Northumberland	Northumberland	North East	ENG	62.7	19.5	40.4	331	112	443	110	37	148	126	171	122					
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	69.0	25.0	46.6	121	45	166	40	15	55	81	114	59					
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	71.1	25.7	48.0	125	47	172	42	16	57	70	98	105					
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	67.1	20.6	43.2	105	34	139	35	11	46	106	143	213					
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	62.0	14.7	37.6	104	26	130	35	9	43	152	203	199					
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	91.3	23.0	56.6	138	36	174	46	12	58	33	50	56					
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	70.6	20.4	45.0	130	40	170	43	13	57	89	125	140					
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	110.6	37.5	73.6	326	112	438	109	37	146	3	6	11					
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	46.2	10.2	27.8	78	18	96	26	6	32	239	303	294					
E07000177	Cherwell	Oxfordshire	South East	ENG	42.9	11.0	26.6	86	23	109	29	8	36	252	316	211					
E07000178	Oxford	Oxfordshire	South East	ENG	46.6	12.1	28.7	65	18	83	22	6	28	230	294	183					
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	40.4	9.6	24.6	81	21	102	27	7	34	269	334	284					
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	42.4	6.9	24.4	79	13	92	26	4	31	272	337	286					
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	39.8	12.8	25.8	64	22	86	21	7	29	259	323	282					
E06000017	Rutland	Rutland	East Midlands	ENG	58.1	*	33.1	36	*	42	12	*	14	188	246	279					
E06000051	Shropshire	Shropshire	West Midlands	ENG	55.8	14.9	34.9	287	82	369	96	27	123	174	229	157					
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	87.0	24.9	55.1	205	62	267	68	21	89	36	56	94					
E06000022	Bath and North East Somerset	Somerset	South West	ENG	47.4	8.6	27.3	115	23	138	38	8	46	243	307	257					
E06000024	North Somerset	Somerset	South West	ENG	48.8	19.2	33.5	152	67	219	51	22	73	185	242	208					
E06000066	Somerset	Somerset	South West	ENG	49.0	13.6	30.7	433	129	562	144	43	187	213	276	139					
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	62.0	27.3	44.3	85	39	124	28	13	41	94	131	120					
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	67.4	20.6	43.7	112	34	146	37	11	49	99	136	150					
E07000194	Lichfield	Staffordshire	West Midlands	ENG	47.2	11.8	29.0	75	20	95	25	7	32	226	290	235					
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	80.6	22.5	51.0	143	42	185	48	14	62	50	75	141					
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	58.3	17.9	37.8	102	32	134	34	11	45	150	201	220					
E07000197	Stafford	Staffordshire	West Midlands	ENG	49.2	15.6	32.1	101	33	134	34	11	45	199	260	222					
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	64.6	17.5	40.7	104	30	134	35	10	45	122	167	195					
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	102.8	27.9	65.1	330	90	420	110	30	140	13	22	12					
E07000199	Tamworth	Staffordshire	West Midlands	ENG	56.3	26.4	40.9	59	30	89	20	10	30	120	164	119					
E07000200	Babergh	Suffolk	East of England	ENG	46.0	8.7	26.6	68	14	82	23	5	27	253	317	203					
E07000244	East Suffolk	Suffolk	East of England	ENG	54.9	15.9	34.8	217	71	288	72	24	96	175	230	151					
E07000202	Ipswich	Suffolk	East of England	ENG	47.3	14.4	30.7	79	24	103	26	8	34	214	277	69					
E07000203	Mid Suffolk	Suffolk	East of England	ENG	39.4	14.9	26.9	66	26	92	22	9	31	250	314	221					
E07000245	West Suffolk	Suffolk	East of England	ENG	53.8	15.5	34.1	129	39	168	43	13	56	180	236	168					
E07000207	Elmbridge	Surrey	South East	ENG	34.7	8.8	21.3	59	16	75	20	5	25	288	353	291					
E07000208	Epsom and Ewell	Surrey	South East	ENG	26.9	13.8	20.1	27	15	42	9	5	14	292	357	281					
E07000209	Guildford	Surrey	South East	ENG	36.3	12.6	24.1	62	23	85	21	8	28	274	339	277					
E07000210	Mole Valley	Surrey	South East	ENG	36.2	7.8	21.7	47	11	58	16	4	19	286	351	275					
E07000211	Reigate and Banstead	Surrey	South East	ENG	43.4	10.4	26.5	82	20	102	27	7	34	254	318	260					
E07000212	Runnymede	Surrey	South East	ENG	52.8	12.7	32.1	54	14	68	18	5	23	198	259	246					
E07000213	Spelthorne	Surrey	South East	ENG	57.8	16.3	36.5	72	21	93	24	7	31	159	211	192					

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					UNDER 75															
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2020/22			Average number of annual prem CHD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)				
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N				
E07000214	Surrey Heath	Surrey	South East	ENG	39.6	11.0	24.9	47	14	61	16	5	20	267	332	290				
E07000215	Tandridge	Surrey	South East	ENG	42.2	9.5	25.2	50	12	62	17	4	21	264	329	242				
E07000216	Waverley	Surrey	South East	ENG	39.3	9.2	23.6	68	17	85	23	6	28	277	342	293				
E07000217	Woking	Surrey	South East	ENG	49.6	12.3	30.7	61	16	77	20	5	26	216	279	263				
E08000037	Gateshead	Tyne & Wear	North East	ENG	76.6	22.8	49.3	208	65	273	69	22	91	56	83	53				
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	75.2	23.8	49.0	243	80	323	81	27	108	59	87	70				
E08000022	North Tyneside	Tyne & Wear	North East	ENG	68.9	22.7	44.8	203	73	276	68	24	92	90	127	123				
E08000023	South Tyneside	Tyne & Wear	North East	ENG	79.9	25.8	52.1	172	59	231	57	20	77	47	70	26				
E08000024	Sunderland	Tyne & Wear	North East	ENG	80.5	23.9	51.3	315	100	415	105	33	138	48	72	33				
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	69.0	29.1	48.7	67	29	96	22	10	32	63	91	147				
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	82.0	27.1	54.0	145	51	196	48	17	65	39	59	98				
E07000220	Rugby	Warwickshire	West Midlands	ENG	70.1	20.2	44.8	99	29	128	33	10	43	91	128	212				
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	44.1	13.1	28.0	92	30	122	31	10	41	236	300	245				
E07000222	Warwick	Warwickshire	West Midlands	ENG	54.5	17.9	35.7	100	35	135	33	12	45	164	219	249				
E08000025	Birmingham	West Midlands	West Midlands	ENG	84.8	24.8	54.1	955	286	1,241	318	95	414	38	58	7				
E08000026	Coventry	West Midlands	West Midlands	ENG	88.9	25.1	56.6	320	92	412	107	31	137	32	49	72				
E08000027	Dudley	West Midlands	West Midlands	ENG	77.2	22.8	49.4	331	102	433	110	34	144	55	82	99				
E08000028	Sandwell	West Midlands	West Midlands	ENG	103.6	36.2	69.3	392	139	531	131	46	177	6	11	6				
E08000029	Solihull	West Midlands	West Midlands	ENG	51.4	13.2	31.6	148	42	190	49	14	63	207	268	196				
E08000030	Walsall	West Midlands	West Midlands	ENG	90.3	30.5	59.9	305	107	412	102	36	137	25	39	28				
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	93.8	32.6	62.6	290	102	392	97	34	131	18	28	18				
E07000223	Adur	West Sussex	South East	ENG	61.1	17.6	37.8	55	17	72	18	6	24	149	200	154				
E07000224	Arun	West Sussex	South East	ENG	67.8	15.9	40.5	169	48	217	56	16	72	125	170	144				
E07000225	Chichester	West Sussex	South East	ENG	51.7	11.7	30.6	98	26	124	33	9	41	218	281	204				
E07000226	Crawley	West Sussex	South East	ENG	68.6	17.9	42.6	87	23	110	29	8	37	109	147	127				
E07000227	Horsham	West Sussex	South East	ENG	45.8	9.4	27.0	98	22	120	33	7	40	247	311	271				
E07000228	Mid Sussex	West Sussex	South East	ENG	37.2	10.6	23.5	76	24	100	25	8	33	279	344	292				
E07000229	Worthing	West Sussex	South East	ENG	53.2	14.2	32.8	81	24	105	27	8	35	191	251	161				
E06000030	Swindon	Wiltshire	South West	ENG	66.3	18.4	42.1	191	53	244	64	18	81	111	150	162				
E06000054	Wiltshire	Wiltshire	South West	ENG	43.7	9.0	25.8	319	70	389	106	23	130	260	324	223				
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	45.5	12.0	28.3	65	18	83	22	6	28	233	297	255				
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	40.4	9.9	24.7	54	15	69	18	5	23	268	333	181				
E07000236	Redditch	Worcestershire	West Midlands	ENG	67.5	22.2	44.2	79	27	106	26	9	35	95	132	114				
E07000237	Worcester	Worcestershire	West Midlands	ENG	52.5	19.2	35.5	68	26	94	23	9	31	167	222	149				
E07000238	Wychavon	Worcestershire	West Midlands	ENG	64.5	14.0	38.6	135	31	166	45	10	55	145	194	179				
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	68.9	13.2	40.1	109	22	131	36	7	44	129	174	107				
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	56.3	16.6	35.9	319	100	419	106	33	140	162	217	207				
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	101.2	29.8	65.4	324	96	420	108	32	140	11	19	9				
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	76.1	40.5	57.8	134	76	210	45	25	70	28	43	16				
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	56.0	18.2	36.6	551	196	747	184	65	249	158	210	210				
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	78.5	24.9	50.7	161	56	217	54	19	72	52	78	62				
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	65.4	15.1	39.4	163	41	204	54	14	68	136	184	259				
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	81.5	32.4	56.6	278	114	392	93	38	131	34	51	38				
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	89.8	31.6	60.1	378	140	518	126	47	173	24	38	40				
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	86.5	31.7	58.5	310	120	430	103	40	143	27	42	49				
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	72.9	23.6	47.8	472	159	631	157	53	210	71	99	88				
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	93.8	32.6	62.6	580	207	787	193	69	262	19	29	21				
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	75.2	26.1	49.9	210	78	288	70	26	96	54	80	73				
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	66.6	22.3	44.0	368	127	495	123	42	165	97	134	82				

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					UNDER 75													ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2020/22			Average number of annual prem CHD deaths - 2020/22									
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N				
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	67.2	20.3	43.0	605	192	797	202	64	266	107	145	85				
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	82.2	24.0	52.5	393	120	513	131	40	171	44	65	61				
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	58.6	20.4	38.9	105	39	144	35	13	48	4	191	10				
N09000011	Ards and North Down		Northern Ireland	NI	46.0	17.1	31.0	108	44	152	36	15	51	10	275	9				
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	50.6	12.4	31.1	133	34	167	44	11	56	9	271	7				
N09000003	Belfast		Northern Ireland	NI	74.0	23.1	47.6	279	91	370	93	30	123	1	101	4				
N09000004	Causeway Coast and Glens		Northern Ireland	NI	50.9	15.1	32.9	99	30	129	33	10	43	7	247	5				
N09000005	Derry City and Strabane		Northern Ireland	NI	61.9	21.9	41.4	117	42	159	39	14	53	2	158	1				
N09000006	Fermanagh and Omagh		Northern Ireland	NI	60.8	19.1	40.0	96	30	126	32	10	42	3	180	2				
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	47.3	12.6	29.5	87	25	112	29	8	37	11	287	11				
N09000008	Mid and East Antrim		Northern Ireland	NI	52.6	14.0	32.8	99	28	127	33	9	42	8	249	8				
N09000009	Mid Ulster		Northern Ireland	NI	48.1	20.0	34.1	82	34	116	27	11	39	5	237	6				
N09000010	Newry, Mourne and Down		Northern Ireland	NI	51.0	16.3	33.4	116	39	155	39	13	52	6	243	3				
S12000033	Aberdeen City		Scotland	SCO	72.1	20.9	46.1	199	59	258	66	20	86	21	120	26				
S12000034	Aberdeenshire		Scotland	SCO	55.3	21.5	38.1	218	87	305	73	29	102	29	197	30				
S12000041	Angus		Scotland	SCO	55.3	27.6	41.1	102	55	157	34	18	52	25	161	20				
S12000035	Argyll and Bute		Scotland	SCO	77.3	18.7	47.4	118	27	145	39	9	48	18	103	19				
S12000036	City of Edinburgh		Scotland	SCO	72.1	22.0	46.3	423	137	560	141	46	187	20	119	29				
S12000005	Clackmannanshire		Scotland	SCO	104.9	37.9	70.3	81	32	113	27	11	38	4	9	8				
S12000006	Dumfries and Galloway		Scotland	SCO	68.0	27.9	47.3	169	76	245	56	25	82	19	104	12				
S12000042	Dundee City		Scotland	SCO	100.9	32.3	65.3	184	63	247	61	21	82	8	21	6				
S12000008	East Ayrshire		Scotland	SCO	97.3	41.5	68.4	173	81	254	58	27	85	5	12	7				
S12000045	East Dunbartonshire		Scotland	SCO	37.9	15.0	25.8	61	27	88	20	9	29	32	325	31				
S12000010	East Lothian		Scotland	SCO	65.2	19.4	41.1	103	33	136	34	11	45	24	160	22				
S12000011	East Renfrewshire		Scotland	SCO	57.2	14.8	34.7	75	22	97	25	7	32	31	232	32				
S12000014	Falkirk		Scotland	SCO	89.1	39.7	63.6	201	97	298	67	32	99	9	27	16				
S12000047	Fife		Scotland	SCO	83.3	25.9	53.4	443	150	593	148	50	198	14	62	17				
S12000049	Glasgow City		Scotland	SCO	111.1	41.2	74.9	770	301	1,071	257	100	357	2	4	2				
S12000017	Highland		Scotland	SCO	79.3	26.0	52.0	298	104	402	99	35	134	16	71	18				
S12000018	Inverclyde		Scotland	SCO	83.5	33.6	57.3	101	45	146	34	15	49	10	45	4				
S12000019	Midlothian		Scotland	SCO	55.9	25.5	39.8	71	36	107	24	12	36	27	182	14				
S12000020	Moray		Scotland	SCO	59.5	14.6	36.5	85	22	107	28	7	36	30	213	23				
S12000013	Na h-Eileanan Siar		Scotland	SCO	119.9	30.5	75.3	55	14	69	18	5	23	1	2	10				
S12000021	North Ayrshire		Scotland	SCO	104.9	45.6	73.6	218	108	326	73	36	109	3	5	3				
S12000050	North Lanarkshire		Scotland	SCO	103.4	34.4	67.4	472	170	642	157	57	214	6	13	5				
S12000023	Orkney Islands		Scotland	SCO	72.2	13.2	42.1	25	5	30	8	2	10	23	151	24				
S12000048	Perth and Kinross		Scotland	SCO	59.3	18.7	38.3	142	47	189	47	16	63	28	195	28				
S12000038	Renfrewshire		Scotland	SCO	94.1	23.0	56.6	239	63	302	80	21	101	11	47	9				
S12000026	Scottish Borders		Scotland	SCO	62.9	18.6	40.1	124	39	163	41	13	54	26	175	21				
S12000027	Shetland Islands		Scotland	SCO	71.3	17.9	44.9	25	6	31	8	2	10	22	126	25				
S12000028	South Ayrshire		Scotland	SCO	86.5	28.8	56.3	160	59	219	53	20	73	12	53	13				
S12000029	South Lanarkshire		Scotland	SCO	76.0	28.2	51.1	355	144	499	118	48	166	17	74	11				
S12000030	Stirling		Scotland	SCO	77.9	28.3	52.1	101	39	140	34	13	47	15	69	27				
S12000039	West Dunbartonshire		Scotland	SCO	102.4	33.5	66.3	131	46	177	44	15	59	7	17	1				
S12000040	West Lothian		Scotland	SCO	82.3	31.6	56.1	199	81	280	66	27	93	13	54	15				
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	73.1	18.0	47.1	139	38	185	46	13	62	13	105	17				
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	76.2	20.4	50.9	121	34	164	40	11	55	9	77	9				
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	66.8	21.0	43.1	153	51	203	51	17	68	15	144	20				
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	80.7	21.0	49.0	154	42	192	51	14	64	11	86	14				

Table 1.28 Age-standardised death rates per 100,000 and number of deaths for coronary heart disease (CHD), under 75s by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					UNDER 75											
					Age-standardised premature CHD death rates per 100,000 - Annual Average (3-Year)			Total number of premature CHD deaths - 2020/22			Average number of annual prem CHD deaths - 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	76.9	23.6	49.7	222	77	301	74	26	100	10	81	8
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	63.7	19.5	42.4	75	25	103	25	8	34	16	148	16
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	72.4	27.8	52.4	150	63	222	50	21	74	8	67	12
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	112.6	36.3	73.5	108	37	144	36	12	48	1	7	1
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	83.7	23.6	56.5	206	63	286	69	21	95	7	52	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	57.5	*	32.6	90	*	105	30	*	35	22	255	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	87.4	31.8	59.1	168	64	233	56	21	78	6	40	5
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	82.2	36.6	61.9	105	52	164	35	17	55	2	30	7
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	76.1	17.5	47.5	134	33	171	45	11	57	12	102	18
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	61.0	15.9	40.7	71	20	97	24	7	32	18	166	15
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	56.5	16.0	36.0	115	35	151	38	12	50	21	216	10
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	99.9	*	60.7	80	*	100	27	*	33	4	35	2
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	66.6	27.4	45.8	217	94	305	72	31	102	14	123	4
W06000023	Powys	Powys	Wales / Cymru	WAL	48.4	17.3	36.7	116	43	172	39	14	57	19	208	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	65.4	17.2	41.9	252	69	331	84	23	110	17	154	11
W06000014	The Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	63.6	10.2	36.5	120	22	145	40	7	48	20	212	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gortlewin Morgannwg	Wales / Cymru	WAL	90.6	33.1	61.3	182	72	253	61	24	84	3	32	3
W06000011	Swansea / Abertawe	West Glamorgan / Gortlewin Morgannwg	Wales / Cymru	WAL	95.5	26.7	60.4	300	93	396	100	31	132	5	36	13

Notes: ICD-10 codes I20-I25. Directly age-standardised using the 2013 European Standard Population. Some of the data for Wales has been suppressed.
Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area
UK local authorities correct April 2024.
* indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)
Totals for male & female deaths may not equal total due to suppression of age-band cohorts in Nomis data - Wales only

Citation: BHF (2024) Analysis of official UK mortality data

Source: England: Number of deaths and mortality rates are taken from OHID's Mortality Profile
Wales: Number of deaths are taken from Nomis Mortality Statistics, mortality rates calculated by the BHF
Scotland: Mortality rates calculated in partnership with NRS (National Records of Scotland)
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency
England: Average IMD ranks taken from English Indices of Deprivation
Wales: Average IMD ranks calculated from Welsh Index of Multiple Deprivation
Scotland: Average IMD ranks calculated from Scottish Index of Multiple Deprivation
Northern Ireland: Average IMD ranks calculated from Northern Ireland Multiple Deprivation Measures

<https://fingertips.phe.org.uk/profile/mortality-profile/>
<https://www.nomisweb.co.uk/datasets/mortsa>

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

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
reissued 27 Aug 2024 - errors in some NI ASDRs / rankings					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2020/22			Average number of annual stroke (CBVD) deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E06000055	Bedford	Bedfordshire	East of England	ENG	46.6	42.0	43.9	97	124	221	32	41	74	220	283	152
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	52.3	41.8	46.0	174	188	362	58	63	121	196	256	247
E06000032	Luton	Bedfordshire	East of England	ENG	62.2	59.3	61.5	122	146	268	41	49	89	16	45	51
E06000036	Bracknell Forest	Berkshire	South East	ENG	43.5	36.1	39.2	53	61	114	18	20	38	278	343	265
E06000038	Reading	Berkshire	South East	ENG	59.8	46.5	53.2	91	93	184	30	31	61	90	138	132
E06000039	Slough	Berkshire	South East	ENG	61.0	49.2	54.6	68	69	137	23	23	46	75	116	74
E06000037	West Berkshire	Berkshire	South East	ENG	46.5	43.1	44.9	96	121	217	32	40	72	209	271	272
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	39.2	40.9	39.8	78	114	192	26	38	64	274	339	285
E06000041	Wokingham	Berkshire	South East	ENG	44.6	37.3	40.5	94	109	203	31	36	68	269	334	295
E06000023	Bristol, City of	Bristol	South West	ENG	47.9	43.8	46.0	196	254	450	65	85	150	197	257	77
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	44.5	38.5	41.4	316	395	711	105	132	237	254	318	268
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	49.1	39.6	43.6	119	136	255	40	45	85	225	289	165
E07000008	Cambridge	Cambridgeshire	East of England	ENG	38.7	44.2	42.7	47	73	120	16	24	40	238	302	198
E07000009	East Cambridgeshire	Cambridgeshire	East of England	ENG	45.0	40.9	41.9	53	68	121	18	23	40	246	310	250
E07000010	Fenland	Cambridgeshire	East of England	ENG	45.6	42.3	43.7	67	91	158	22	30	53	224	287	50
E07000011	Huntingdonshire	Cambridgeshire	East of England	ENG	51.5	46.3	48.6	120	147	267	40	49	89	151	206	236
E06000031	Peterborough	Cambridgeshire	East of England	ENG	55.0	44.3	49.1	116	123	239	39	41	80	141	195	52
E07000012	South Cambridgeshire	Cambridgeshire	East of England	ENG	50.1	37.9	43.4	112	117	229	37	39	76	228	292	283
E06000049	Cheshire East	Cheshire	North West	ENG	51.6	48.6	50.4	312	402	714	104	134	238	121	174	217
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	50.2	44.9	47.8	253	308	561	84	103	187	168	225	170
E06000006	Halton	Cheshire	North West	ENG	55.7	45.7	50.3	80	86	166	27	29	55	125	178	41
E06000007	Warrington	Cheshire	North West	ENG	58.8	43.8	50.3	151	154	305	50	51	102	124	177	163
E06000052	Cornwall	Cornwall	South West	ENG	65.7	63.1	64.6	597	816	1,413	199	272	471	5	31	79
E06000053	Isles of Scilly	Cornwall	South West	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	232
E06000047	County Durham	County Durham	North East	ENG	61.5	55.6	58.8	431	521	952	144	174	317	26	62	68
E06000005	Darlington	County Durham	North East	ENG	60.0	56.6	58.2	86	112	198	29	37	66	32	68	100
E06000001	Hartlepool	County Durham	North East	ENG	52.3	53.0	53.8	62	84	146	21	28	49	84	127	27
E06000004	Stockton-on-Tees	County Durham	North East	ENG	54.8	45.8	50.4	132	145	277	44	48	92	120	173	112
E06000063	Cumberland	Cumbria	North West	ENG	67.1	54.6	60.4	275	306	581	92	102	194	20	51	103
E06000064	Westmorland and Furness	Cumbria	North West	ENG	53.3	57.7	56.5	200	303	503	67	101	168	45	85	160
E07000032	Amber Valley	Derbyshire	East Midlands	ENG	56.1	48.5	51.5	94	119	213	31	40	71	103	154	158
E07000033	Bolsover	Derbyshire	East Midlands	ENG	57.2	54.1	56.7	59	75	134	20	25	45	43	82	57
E07000034	Chesterfield	Derbyshire	East Midlands	ENG	57.0	59.9	59.0	81	121	202	27	40	67	24	58	81
E06000015	Derby	Derbyshire	East Midlands	ENG	59.2	50.5	55.1	174	212	386	58	71	129	61	102	84
E07000035	Derbyshire Dales	Derbyshire	East Midlands	ENG	59.2	43.6	49.9	75	78	153	25	26	51	131	185	248
E07000036	Erewash	Derbyshire	East Midlands	ENG	58.5	57.5	58.3	87	120	207	29	40	69	31	67	159
E07000037	High Peak	Derbyshire	East Midlands	ENG	62.1	48.0	54.1	76	80	156	25	27	52	81	124	193
E07000038	North East Derbyshire	Derbyshire	East Midlands	ENG	59.5	50.6	54.7	94	108	202	31	36	67	70	111	166
E07000039	South Derbyshire	Derbyshire	East Midlands	ENG	47.7	41.7	45.0	60	70	130	20	23	43	207	269	215
E07000040	East Devon	Devon	South West	ENG	41.3	46.3	44.4	129	213	342	43	71	114	215	277	226
E07000041	Exeter	Devon	South West	ENG	43.8	52.3	50.2	65	122	187	22	41	62	127	180	182
E07000042	Mid Devon	Devon	South West	ENG	46.5	51.3	49.2	61	93	154	20	31	51	139	193	155
E07000043	North Devon	Devon	South West	ENG	58.1	56.2	57.7	101	132	233	34	44	78	36	72	117
E06000026	Plymouth	Devon	South West	ENG	57.1	58.7	58.1	180	266	446	60	89	149	33	69	71
E07000044	South Hams	Devon	South West	ENG	39.5	49.0	46.0	64	112	176	21	37	59	195	255	206
E07000045	Teignbridge	Devon	South West	ENG	54.0	54.6	54.2	126	183	309	42	61	103	80	122	175
E06000027	Torbay	Devon	South West	ENG	56.8	53.7	56.0	141	194	335	47	65	112	51	92	48
E07000046	Torridge	Devon	South West	ENG	63.4	75.0	70.0	76	123	199	25	41	66	1	20	66
E07000047	West Devon	Devon	South West	ENG	54.3	48.3	51.2	55	70	125	18	23	42	109	160	130
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	52.2	51.7	52.4	317	462	779	106	154	260	95	144	156

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2020/22			Average number of annual stroke (CBVD) deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N												
E06000059	Dorset	Dorset	South West	ENG	51.7	50.2	51.2	401	543	944	134	181	315	108	159	187
E06000043	Brighton and Hove	East Sussex	South East	ENG	46.6	52.3	50.5	126	204	330	42	68	110	119	172	131
E07000061	Eastbourne	East Sussex	South East	ENG	59.8	50.7	54.6	102	138	240	34	46	80	73	114	104
E07000062	Hastings	East Sussex	South East	ENG	62.1	55.6	58.6	72	94	166	24	31	55	28	64	14
E07000063	Lewes	East Sussex	South East	ENG	47.2	38.6	42.5	85	111	196	28	37	65	240	304	184
E07000064	Rother	East Sussex	South East	ENG	48.8	48.1	48.6	99	148	247	33	49	82	150	205	126
E07000065	Wealden	East Sussex	South East	ENG	54.1	52.3	53.5	154	211	365	51	70	122	87	131	238
E07000066	Basildon	Essex	East of England	ENG	51.2	38.3	43.8	103	115	218	34	38	73	223	286	106
E07000067	Braintree	Essex	East of England	ENG	40.8	36.9	39.4	84	107	191	28	36	64	277	342	194
E07000068	Brentwood	Essex	East of England	ENG	45.7	35.5	39.8	51	60	111	17	20	37	275	340	269
E07000069	Castle Point	Essex	East of England	ENG	46.0	37.8	41.5	66	77	143	22	26	48	251	315	172
E07000070	Chelmsford	Essex	East of England	ENG	48.1	35.6	41.0	116	116	232	39	39	77	263	327	241
E07000071	Colchester	Essex	East of England	ENG	39.0	37.2	38.1	90	117	207	30	39	69	284	349	173
E07000072	Epping Forest	Essex	East of England	ENG	38.7	28.5	32.5	68	74	142	23	25	47	294	359	191
E07000073	Harlow	Essex	East of England	ENG	37.7	44.5	41.2	34	56	90	11	19	30	259	323	97
E07000074	Maldon	Essex	East of England	ENG	43.6	41.8	42.8	46	61	107	15	20	36	233	297	197
E07000075	Rochford	Essex	East of England	ENG	56.9	40.7	46.5	69	74	143	23	25	48	187	247	267
E06000033	Southend-on-Sea	Essex	East of England	ENG	57.7	41.2	48.3	132	142	274	44	47	91	159	216	115
E07000076	Tendring	Essex	East of England	ENG	44.0	43.4	44.1	131	170	301	44	57	100	218	281	34
E06000034	Thurrock	Essex	East of England	ENG	49.8	35.7	41.2	76	76	152	25	25	51	260	324	110
E07000077	Uttlesford	Essex	East of England	ENG	37.8	35.0	35.5	45	62	107	15	21	36	290	355	276
E07000078	Cheltenham	Gloucestershire	South West	ENG	52.3	51.1	51.9	81	127	208	27	42	69	97	146	228
E07000079	Cotswold	Gloucestershire	South West	ENG	51.7	45.1	48.6	85	99	184	28	33	61	149	204	258
E07000080	Forest of Dean	Gloucestershire	South West	ENG	42.4	50.3	47.6	59	94	153	20	31	51	172	229	135
E07000081	Gloucester	Gloucestershire	South West	ENG	67.1	47.0	55.0	96	98	194	32	33	65	62	103	128
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	37.7	39.6	39.2	143	203	346	48	68	115	279	344	251
E07000082	Stroud	Gloucestershire	South West	ENG	50.7	46.1	48.1	92	118	210	31	39	70	164	221	261
E07000083	Tewkesbury	Gloucestershire	South West	ENG	47.0	40.3	43.4	67	77	144	22	26	48	226	290	243
E09000002	Barking and Dagenham	Greater London	London	ENG	54.9	43.9	48.8	78	83	161	26	28	54	147	202	5
E09000003	Barnet	Greater London	London	ENG	39.0	31.8	35.2	151	184	335	50	61	112	292	357	171
E09000004	Bexley	Greater London	London	ENG	49.6	44.9	48.3	140	190	330	47	63	110	157	213	177
E09000005	Brent	Greater London	London	ENG	55.5	43.0	49.0	158	158	316	53	53	105	144	199	47
E09000006	Bromley	Greater London	London	ENG	46.4	37.2	41.2	188	221	409	63	74	136	261	325	218
E09000007	Camden	Greater London	London	ENG	45.9	35.8	40.2	75	85	160	25	28	53	272	337	125
E09000001	City of London	Greater London	London	ENG	*	*	*	*	*	*	*	*	*	n/a	n/a	189
E09000008	Croydon	Greater London	London	ENG	56.2	47.0	51.0	205	237	442	68	79	147	111	162	96
E09000009	Ealing	Greater London	London	ENG	55.6	44.3	49.8	176	181	357	59	60	119	132	186	87
E09000010	Enfield	Greater London	London	ENG	42.6	40.4	41.5	136	178	314	45	59	105	252	316	58
E09000011	Greenwich	Greater London	London	ENG	57.5	54.3	56.2	116	149	265	39	50	88	50	91	63
E09000012	Hackney	Greater London	London	ENG	60.2	49.6	54.6	89	95	184	30	32	61	74	115	8
E09000013	Hammersmith and Fulham	Greater London	London	ENG	49.6	50.0	50.3	61	86	147	20	29	49	123	176	93
E09000014	Haringey	Greater London	London	ENG	56.2	42.3	48.3	105	110	215	35	37	72	158	215	36
E09000015	Harrow	Greater London	London	ENG	40.6	32.7	36.4	114	127	241	38	42	80	288	353	188
E09000016	Havering	Greater London	London	ENG	44.0	41.6	42.8	136	192	328	45	64	109	234	298	167
E09000017	Hillingdon	Greater London	London	ENG	46.1	44.7	45.8	133	177	310	44	59	103	198	258	138
E09000018	Hounslow	Greater London	London	ENG	58.7	52.0	55.9	143	152	295	48	51	98	52	93	90
E09000019	Islington	Greater London	London	ENG	54.5	42.2	47.4	71	77	148	24	26	49	181	239	29
E09000020	Kensington and Chelsea	Greater London	London	ENG	55.1	31.8	41.4	75	61	136	25	20	45	253	317	118
E09000021	Kingston upon Thames	Greater London	London	ENG	44.1	38.1	41.3	75	88	163	25	29	54	257	321	252
E09000022	Lambeth	Greater London	London	ENG	65.0	41.0	50.9	122	105	227	41	35	76	115	166	43

reissued 27 Aug 2024 - errors in some NI ASDRs / rankings

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2020/22			Average number of annual stroke (CBVD) deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N												
E09000023	Lewisham	Greater London	London	ENG	62.9	61.6	62.1	117	173	290	39	58	97	13	41	35
E09000024	Merton	Greater London	London	ENG	53.5	41.5	47.1	95	111	206	32	37	69	185	244	205
E09000025	Newham	Greater London	London	ENG	67.0	48.8	56.8	117	111	228	39	37	76	41	80	13
E09000026	Redbridge	Greater London	London	ENG	48.3	38.8	43.3	130	141	271	43	47	90	229	293	153
E09000027	Richmond upon Thames	Greater London	London	ENG	41.3	37.3	39.1	83	114	197	28	38	66	280	345	278
E09000028	Southwark	Greater London	London	ENG	59.0	43.1	50.5	112	107	219	37	36	73	118	169	45
E09000029	Sutton	Greater London	London	ENG	41.3	40.1	41.1	90	129	219	30	43	73	262	326	216
E09000030	Tower Hamlets	Greater London	London	ENG	63.0	55.1	58.5	80	87	167	27	29	56	30	66	30
E09000031	Waltham Forest	Greater London	London	ENG	47.1	44.7	46.3	96	117	213	32	39	71	191	251	44
E09000032	Wandsworth	Greater London	London	ENG	43.5	40.0	41.7	94	121	215	31	40	72	250	314	164
E09000033	Westminster	Greater London	London	ENG	52.3	41.5	46.3	91	97	188	30	32	63	189	249	134
E08000001	Bolton	Greater Manchester	North West	ENG	59.2	52.6	55.7	189	228	417	63	76	139	54	95	42
E08000002	Bury	Greater Manchester	North West	ENG	62.5	48.0	54.9	145	150	295	48	50	98	64	105	102
E08000003	Manchester	Greater Manchester	North West	ENG	71.5	55.2	62.3	249	252	501	83	84	167	12	40	2
E08000004	Oldham	Greater Manchester	North West	ENG	60.4	62.0	62.4	154	204	358	51	68	119	11	39	24
E08000005	Rochdale	Greater Manchester	North West	ENG	78.6	60.2	68.4	185	189	374	62	63	125	2	22	17
E08000006	Salford	Greater Manchester	North West	ENG	59.0	55.9	57.9	145	177	322	48	59	107	35	71	20
E08000007	Stockport	Greater Manchester	North West	ENG	56.7	41.9	48.2	221	241	462	74	80	154	160	217	145
E08000008	Tameside	Greater Manchester	North West	ENG	58.4	45.7	51.2	148	155	303	49	52	101	107	158	22
E08000009	Trafford	Greater Manchester	North West	ENG	53.9	42.7	47.4	146	177	323	49	59	108	179	237	201
E08000010	Wigan	Greater Manchester	North West	ENG	62.0	48.7	54.8	246	249	495	82	83	165	67	108	91
E07000084	Basingstoke and Deane	Hampshire	South East	ENG	44.4	46.8	45.4	91	131	222	30	44	74	203	264	234
E07000085	East Hampshire	Hampshire	South East	ENG	53.9	46.2	49.6	105	129	234	35	43	78	134	188	266
E07000086	Eastleigh	Hampshire	South East	ENG	37.4	42.5	40.5	69	108	177	23	36	59	268	333	270
E07000087	Fareham	Hampshire	South East	ENG	43.9	50.8	48.2	82	143	225	27	48	75	161	218	280
E07000088	Gosport	Hampshire	South East	ENG	57.8	43.6	50.1	66	73	139	22	24	46	129	182	121
E07000089	Hart	Hampshire	South East	ENG	32.0	35.0	33.7	44	64	108	15	21	36	293	358	296
E07000090	Havant	Hampshire	South East	ENG	49.9	41.3	45.1	101	122	223	34	41	74	206	268	124
E07000091	New Forest	Hampshire	South East	ENG	54.8	44.4	49.0	202	245	447	67	82	149	143	197	230
E06000044	Portsmouth	Hampshire	South East	ENG	61.9	49.0	54.9	126	146	272	42	49	91	63	104	54
E07000092	Rushmoor	Hampshire	South East	ENG	52.7	46.2	49.5	53	62	115	18	21	38	136	190	186
E06000045	Southampton	Hampshire	South East	ENG	44.1	51.3	49.5	104	167	271	35	56	90	135	189	55
E07000093	Test Valley	Hampshire	South East	ENG	41.9	42.4	41.9	75	110	185	25	37	62	245	309	240
E07000094	Winchester	Hampshire	South East	ENG	44.1	33.5	38.4	83	93	176	28	31	59	282	347	274
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	55.2	57.8	57.5	180	256	436	60	85	145	38	75	129
E07000095	Broxbourne	Hertfordshire	East of England	ENG	44.8	39.7	41.9	53	65	118	18	22	39	247	311	142
E07000096	Dacorum	Hertfordshire	East of England	ENG	42.0	39.7	41.0	79	105	184	26	35	61	264	329	229
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	42.9	45.9	45.3	80	120	200	27	40	67	204	265	288
E07000098	Hertsmere	Hertfordshire	East of England	ENG	40.2	40.2	40.7	54	79	133	18	26	44	267	332	214
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	52.0	43.7	47.6	93	115	208	31	38	69	173	230	254
E07000240	St Albans	Hertfordshire	East of England	ENG	43.8	35.8	39.9	82	96	178	27	32	59	273	338	287
E07000243	Stevenage	Hertfordshire	East of England	ENG	57.1	47.0	51.5	53	63	116	18	21	39	102	153	111
E07000102	Three Rivers	Hertfordshire	East of England	ENG	37.9	32.0	35.4	46	54	100	15	18	33	291	356	273
E07000103	Watford	Hertfordshire	East of England	ENG	65.9	47.5	54.7	57	60	117	19	20	39	71	112	185
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	51.3	44.1	47.4	68	89	157	23	30	52	178	236	202
E06000046	Isle of Wight	Isle of Wight	South East	ENG	45.3	40.7	43.1	121	148	269	40	49	90	232	296	78
E07000105	Ashford	Kent	South East	ENG	52.9	50.7	51.7	86	116	202	29	39	67	100	150	143
E07000106	Canterbury	Kent	South East	ENG	51.8	48.3	50.2	116	163	279	39	54	93	128	181	176
E07000107	Dartford	Kent	South East	ENG	53.7	47.9	51.3	60	75	135	20	25	45	106	157	133
E07000108	Dover	Kent	South East	ENG	56.6	51.3	54.0	100	125	225	33	42	75	83	126	101

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2020/22			Average number of annual stroke (CBVD) deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N												
E07000112	Folkestone and Hythe (Shepway)	Kent	South East	ENG	44.0	48.2	47.4	80	122	202	27	41	67	180	238	83
E07000109	Gravesham	Kent	South East	ENG	62.1	37.0	48.1	77	64	141	26	21	47	162	219	109
E07000110	Maidstone	Kent	South East	ENG	49.9	48.2	49.3	110	151	261	37	50	87	137	191	174
E06000035	Medway	Kent	South East	ENG	46.3	40.9	43.8	134	164	298	45	55	99	222	285	92
E07000111	Sevenoaks	Kent	South East	ENG	44.7	49.8	47.6	79	129	208	26	43	69	174	231	239
E07000113	Swale	Kent	South East	ENG	48.9	46.9	48.0	87	115	202	29	38	67	166	223	64
E07000114	Thanet	Kent	South East	ENG	75.0	60.6	67.4	155	186	341	52	62	114	4	25	37
E07000115	Tonbridge and Malling	Kent	South East	ENG	52.2	44.8	48.0	85	105	190	28	35	63	167	224	224
E07000116	Tunbridge Wells	Kent	South East	ENG	60.8	59.8	60.7	96	140	236	32	47	79	18	49	256
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	57.2	58.0	57.6	88	111	199	29	37	66	37	73	15
E06000009	Blackpool	Lancashire	North West	ENG	56.9	57.8	58.6	114	148	262	38	49	87	29	65	1
E07000117	Burnley	Lancashire	North West	ENG	63.2	63.8	64.0	70	92	162	23	31	54	7	33	10
E07000118	Chorley	Lancashire	North West	ENG	49.2	51.1	51.9	80	101	181	27	34	60	98	147	180
E07000119	Fylde	Lancashire	North West	ENG	50.3	38.7	44.3	77	83	160	26	28	53	216	278	190
E07000120	Hyndburn	Lancashire	North West	ENG	52.7	54.1	54.5	50	69	119	17	23	40	78	120	19
E07000121	Lancaster	Lancashire	North West	ENG	64.5	58.3	60.9	118	160	278	39	53	93	17	48	108
E07000122	Pendle	Lancashire	North West	ENG	48.6	51.8	51.0	56	75	131	19	25	44	112	163	31
E07000123	Preston	Lancashire	North West	ENG	60.3	49.2	54.6	93	100	193	31	33	64	76	117	46
E07000124	Ribble Valley	Lancashire	North West	ENG	37.4	50.8	46.3	39	68	107	13	23	36	193	253	262
E07000125	Rossendale	Lancashire	North West	ENG	54.8	41.0	47.5	47	46	93	16	15	31	176	233	89
E07000126	South Ribble	Lancashire	North West	ENG	45.8	41.1	43.4	74	86	160	25	29	53	227	291	200
E07000127	West Lancashire	Lancashire	North West	ENG	63.4	64.4	64.2	101	147	248	34	49	83	6	32	169
E07000128	Wyre	Lancashire	North West	ENG	55.3	50.0	53.4	119	141	260	40	47	87	88	132	146
E07000129	Blaby	Leicestershire	East Midlands	ENG	39.9	33.5	35.9	54	62	116	18	21	39	289	354	264
E07000130	Charnwood	Leicestershire	East Midlands	ENG	47.6	38.6	42.7	107	121	228	36	40	76	237	301	231
E07000131	Harborough	Leicestershire	East Midlands	ENG	48.3	41.2	43.8	66	79	145	22	26	48	221	284	289
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	52.0	42.4	46.4	81	93	174	27	31	58	188	248	225
E06000016	Leicester	Leicestershire	East Midlands	ENG	52.4	48.7	51.0	158	190	348	53	63	116	113	164	23
E07000133	Melton	Leicestershire	East Midlands	ENG	62.6	41.5	50.4	46	44	90	15	15	30	122	175	237
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	46.2	46.5	47.2	62	80	142	21	27	47	183	242	209
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	48.3	38.7	42.4	41	49	90	14	16	30	242	306	233
E07000136	Boston	Lincolnshire	East Midlands	ENG	51.5	59.5	56.8	51	77	128	17	26	43	42	81	80
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	58.3	52.5	55.2	168	183	351	56	61	117	58	99	32
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	54.3	47.5	51.1	55	69	124	18	23	41	110	161	67
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	57.5	53.8	55.6	127	157	284	42	52	95	55	96	65
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	48.8	49.1	48.9	92	120	212	31	40	71	146	201	253
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	50.6	44.8	47.7	120	148	268	40	49	89	169	226	113
E07000140	South Holland	Lincolnshire	East Midlands	ENG	43.1	50.1	47.5	69	102	171	23	34	57	175	232	136
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	50.6	44.4	47.2	107	132	239	36	44	80	184	243	227
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	47.4	39.5	43.3	74	77	151	25	26	50	230	294	137
E08000011	Knowsley	Merseyside	North West	ENG	59.2	54.8	57.1	100	125	225	33	42	75	40	78	3
E08000012	Liverpool	Merseyside	North West	ENG	66.0	56.0	60.7	311	364	675	104	121	225	19	50	4
E08000014	Sefton	Merseyside	North West	ENG	60.4	55.1	57.3	254	346	600	85	115	200	39	76	86
E08000013	St. Helens	Merseyside	North West	ENG	63.3	49.0	55.8	157	154	311	52	51	104	53	94	39
E08000015	Wirral	Merseyside	North West	ENG	48.6	52.2	51.0	220	339	559	73	113	186	114	165	75
E07000143	Breckland	Norfolk	East of England	ENG	51.7	44.8	47.7	120	147	267	40	49	89	170	227	116
E07000144	Broadland	Norfolk	East of England	ENG	48.2	50.4	49.1	111	163	274	37	54	91	140	194	244
E07000145	Great Yarmouth	Norfolk	East of England	ENG	58.3	60.0	60.0	93	125	218	31	42	73	21	53	25
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	54.2	43.2	48.0	143	156	299	48	52	100	165	222	76
E07000147	North Norfolk	Norfolk	East of England	ENG	51.6	47.6	49.8	124	153	277	41	51	92	133	187	95

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Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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reissued 27 Aug 2024 - errors in some NI ASDRs / rankings

					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2020/22			Average number of annual stroke (CBVD) deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E07000148	Norwich	Norfolk	East of England	ENG	52.7	57.5	56.4	76	124	200	25	41	67	47	87	60
E07000149	South Norfolk	Norfolk	East of England	ENG	47.6	41.3	44.1	113	131	244	38	44	81	217	279	219
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	56.0	42.7	48.9	241	239	480	80	80	160	145	200	148
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	49.3	40.9	44.8	233	261	494	78	87	165	211	273	178
E06000057	Northumberland	Northumberland	North East	ENG	60.7	52.2	55.6	300	362	662	100	121	221	56	97	122
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	46.5	60.2	53.7	71	128	199	24	43	66	85	128	59
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	50.8	40.2	45.5	89	89	178	30	30	59	202	263	105
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG	53.4	50.1	51.4	82	113	195	27	38	65	104	155	213
E07000173	Gedling	Nottinghamshire	East Midlands	ENG	61.2	56.6	58.6	98	130	228	33	43	76	27	63	199
E07000174	Mansfield	Nottinghamshire	East Midlands	ENG	49.2	49.0	49.0	67	92	159	22	31	53	142	196	56
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	ENG	59.0	46.2	52.8	107	110	217	36	37	72	92	141	140
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	69.3	58.3	63.0	173	215	388	58	72	129	10	38	11
E07000176	Rushcliffe	Nottinghamshire	East Midlands	ENG	47.9	53.0	51.4	80	138	218	27	46	73	105	156	294
E07000177	Cherwell	Oxfordshire	South East	ENG	42.9	41.6	42.5	80	110	190	27	37	63	239	303	211
E07000178	Oxford	Oxfordshire	South East	ENG	45.3	35.4	39.7	59	68	127	20	23	42	276	341	183
E07000179	South Oxfordshire	Oxfordshire	South East	ENG	42.4	35.9	38.3	86	105	191	29	35	64	283	348	284
E07000180	Vale of White Horse	Oxfordshire	South East	ENG	40.6	39.3	40.9	79	107	186	26	36	62	265	330	286
E07000181	West Oxfordshire	Oxfordshire	South East	ENG	51.5	39.9	44.9	86	99	185	29	33	62	210	272	282
E06000017	Rutland	Rutland	East Midlands	ENG	49.2	35.4	41.8	36	34	70	12	11	23	248	312	279
E06000051	Shropshire	Shropshire	West Midlands	ENG	54.9	56.3	56.4	301	424	725	100	141	242	46	86	157
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	49.6	53.0	51.8	101	143	244	34	48	81	99	148	94
E06000022	Bath and North East Somerset	Somerset	South West	ENG	43.2	40.1	42.0	112	152	264	37	51	88	244	308	257
E06000024	North Somerset	Somerset	South West	ENG	43.3	41.4	42.7	152	208	360	51	69	120	236	300	208
E06000066	Somerset	Somerset	South West	ENG	50.2	46.5	48.4	471	623	1,094	157	208	365	155	210	139
E07000192	Cannock Chase	Staffordshire	West Midlands	ENG	56.0	42.7	48.1	68	72	140	23	24	47	163	220	120
E07000193	East Staffordshire	Staffordshire	West Midlands	ENG	51.7	50.2	51.6	77	106	183	26	35	61	101	151	150
E07000194	Lichfield	Staffordshire	West Midlands	ENG	38.6	45.3	42.3	63	97	160	21	32	53	243	307	235
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	ENG	36.9	37.5	38.0	67	90	157	22	30	52	287	352	141
E07000196	South Staffordshire	Staffordshire	West Midlands	ENG	49.2	49.6	50.3	89	125	214	30	42	71	126	179	220
E07000197	Stafford	Staffordshire	West Midlands	ENG	39.9	35.3	38.1	84	99	183	28	33	61	286	351	222
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	ENG	48.0	42.4	45.7	79	93	172	26	31	57	201	262	195
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	48.5	42.7	45.7	141	166	307	47	55	102	200	261	12
E07000199	Tamworth	Staffordshire	West Midlands	ENG	35.7	44.2	40.8	34	54	88	11	18	29	266	331	119
E07000200	Babergh	Suffolk	East of England	ENG	55.7	30.5	40.5	88	69	157	29	23	52	270	335	203
E07000244	East Suffolk	Suffolk	East of England	ENG	47.1	44.8	46.1	220	287	507	73	96	169	194	254	151
E07000202	Ipswich	Suffolk	East of England	ENG	49.2	50.8	49.3	76	111	187	25	37	62	138	192	69
E07000203	Mid Suffolk	Suffolk	East of England	ENG	53.5	48.2	49.9	87	108	195	29	36	65	130	184	221
E07000245	West Suffolk	Suffolk	East of England	ENG	38.8	48.5	44.6	98	169	267	33	56	89	212	274	168
E07000207	Elmbridge	Surrey	South East	ENG	36.7	43.8	41.3	66	122	188	22	41	63	256	320	291
E07000208	Epsom and Ewell	Surrey	South East	ENG	56.2	31.6	42.4	56	47	103	19	16	34	241	305	281
E07000209	Guildford	Surrey	South East	ENG	42.7	35.3	38.1	74	90	164	25	30	55	285	350	277
E07000210	Mole Valley	Surrey	South East	ENG	48.9	38.1	42.8	71	82	153	24	27	51	235	299	275
E07000211	Reigate and Banstead	Surrey	South East	ENG	49.2	41.2	44.9	92	118	210	31	39	70	208	270	260
E07000212	Runnymede	Surrey	South East	ENG	44.3	49.9	48.5	49	79	128	16	26	43	153	208	246
E07000213	Spelthorne	Surrey	South East	ENG	45.3	36.6	41.3	61	69	130	20	23	43	258	322	192
E07000214	Surrey Heath	Surrey	South East	ENG	40.1	36.5	38.8	50	70	120	17	23	40	281	346	290
E07000215	Tandridge	Surrey	South East	ENG	41.5	47.5	45.1	54	89	143	18	30	48	205	267	242
E07000216	Waverley	Surrey	South East	ENG	41.2	40.7	41.7	82	129	211	27	43	70	249	313	293
E07000217	Woking	Surrey	South East	ENG	40.5	46.7	44.5	51	83	134	17	28	45	214	276	263
E08000037	Gateshead	Tyne & Wear	North East	ENG	59.9	55.4	58.1	154	202	356	51	67	119	34	70	53

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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reissued 27 Aug 2024 - errors in some NI ASDRs / rankings

					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2020/22			Average number of annual stroke (CBVD) deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	62.2	50.3	55.2	183	210	393	61	70	131	60	101	70
E08000022	North Tyneside	Tyne & Wear	North East	ENG	63.9	54.7	58.9	168	217	385	56	72	128	25	61	123
E08000023	South Tyneside	Tyne & Wear	North East	ENG	62.8	62.5	63.9	126	174	300	42	58	100	8	34	26
E08000024	Sunderland	Tyne & Wear	North East	ENG	58.5	49.3	53.5	204	242	446	68	81	149	86	129	33
E07000218	North Warwickshire	Warwickshire	West Midlands	ENG	55.2	42.1	47.3	48	52	100	16	17	33	182	241	147
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	ENG	60.5	43.6	50.8	100	97	197	33	32	66	117	168	98
E07000220	Rugby	Warwickshire	West Midlands	ENG	47.2	49.4	48.4	67	95	162	22	32	54	156	211	212
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	ENG	44.7	39.4	41.3	100	126	226	33	42	75	255	319	245
E07000222	Warwick	Warwickshire	West Midlands	ENG	43.0	48.5	46.3	82	134	216	27	45	72	192	252	249
E08000025	Birmingham	West Midlands	West Midlands	ENG	62.9	48.7	54.8	652	711	1,363	217	237	454	68	109	7
E08000026	Coventry	West Midlands	West Midlands	ENG	54.8	51.0	53.3	193	249	442	64	83	147	89	135	72
E08000027	Dudley	West Midlands	West Midlands	ENG	47.1	45.4	46.3	202	276	478	67	92	159	190	250	99
E08000028	Sandwell	West Midlands	West Midlands	ENG	57.1	47.7	52.4	199	221	420	66	74	140	96	145	6
E08000029	Solihull	West Midlands	West Midlands	ENG	44.8	44.5	44.5	139	200	339	46	67	113	213	275	196
E08000030	Walsall	West Midlands	West Midlands	ENG	59.0	50.2	54.5	201	234	435	67	78	145	77	118	28
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	64.4	56.6	59.9	194	236	430	65	79	143	22	54	18
E07000223	Adur	West Sussex	South East	ENG	41.3	45.2	44.0	42	70	112	14	23	37	219	282	154
E07000224	Arun	West Sussex	South East	ENG	52.1	45.9	48.7	165	220	385	55	73	128	148	203	144
E07000225	Chichester	West Sussex	South East	ENG	48.0	43.8	45.7	112	144	256	37	48	85	199	260	204
E07000226	Crawley	West Sussex	South East	ENG	46.5	40.5	43.3	50	64	114	17	21	38	231	295	127
E07000227	Horsham	West Sussex	South East	ENG	39.8	41.0	40.3	89	135	224	30	45	75	271	336	271
E07000228	Mid Sussex	West Sussex	South East	ENG	49.7	45.5	47.7	105	148	253	35	49	84	171	228	292
E07000229	Worthing	West Sussex	South East	ENG	40.7	51.1	47.5	69	140	209	23	47	70	177	235	161
E06000030	Swindon	Wiltshire	South West	ENG	62.4	48.8	54.1	153	164	317	51	55	106	82	125	162
E06000054	Wiltshire	Wiltshire	South West	ENG	51.2	49.7	50.8	380	522	902	127	174	301	116	167	223
E07000234	Bromsgrove	Worcestershire	West Midlands	ENG	44.6	46.2	46.7	70	108	178	23	36	59	186	246	255
E07000235	Malvern Hills	Worcestershire	West Midlands	ENG	54.0	58.4	56.3	80	122	202	27	41	67	48	88	181
E07000236	Redditch	Worcestershire	West Midlands	ENG	48.9	57.4	52.7	44	74	118	15	25	39	93	142	114
E07000237	Worcester	Worcestershire	West Midlands	ENG	58.6	53.8	56.7	70	91	161	23	30	54	44	83	149
E07000238	Wychavon	Worcestershire	West Midlands	ENG	46.0	49.3	48.4	99	149	248	33	50	83	154	209	179
E07000239	Wyre Forest	Worcestershire	West Midlands	ENG	62.4	59.6	61.6	103	131	234	34	44	78	15	44	107
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	57.7	52.6	54.9	330	419	749	110	140	250	65	106	207
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	75.6	61.7	68.0	197	218	415	66	73	138	3	23	9
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	63.1	50.3	55.2	95	107	202	32	36	67	59	100	16
E06000065	North Yorkshire	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	54.7	54.7	55.3	539	769	1,308	180	256	436	57	98	210
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	54.6	53.9	54.6	109	147	256	36	49	85	72	113	62
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	56.3	48.8	53.0	145	191	336	48	64	112	91	140	259
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	66.8	61.5	63.9	200	248	448	67	83	149	9	35	38
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	57.1	51.0	54.2	224	270	494	75	90	165	79	121	40
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	55.2	55.2	56.3	191	246	437	64	82	146	49	89	49
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	55.1	50.3	52.6	346	450	796	115	150	265	94	143	88
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	68.4	55.9	62.0	380	429	809	127	143	270	14	42	21
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	60.6	49.9	54.7	150	172	322	50	57	107	69	110	73
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	63.9	56.1	59.6	312	384	696	104	128	232	23	55	82
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	52.2	45.3	48.5	436	544	980	145	181	327	152	207	85
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	58.7	51.8	54.8	245	293	538	82	98	179	66	107	61
N09000001	Antrim and Newtownabbey		Northern Ireland	NI	57.6	50.1	53.3	90	114	204	30	38	68	4	134	10
N09000011	Ards and North Down		Northern Ireland	NI	53.8	43.3	47.5	119	136	255	40	45	85	9	234	9
N09000002	Armagh City, Banbridge and Craigavon		Northern Ireland	NI	51.6	45.8	48.3	117	142	259	39	47	86	8	214	7
N09000003	Belfast		Northern Ireland	NI	56.8	48.3	51.5	185	245	430	62	82	143	6	152	4

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2020/22

[Back to Table of Contents](#)

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					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2020/22			Average number of annual stroke (CBVD) deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
reissued 27 Aug 2024 - errors in some NI ASDRs / rankings					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N												
N09000004	Causeway Coast and Glens		Northern Ireland	NI	65.7	52.3	57.0	106	126	232	35	42	77	3	79	5
N09000005	Derry City and Strabane		Northern Ireland	NI	60.4	39.8	48.4	91	76	167	30	25	56	7	212	1
N09000006	Fermanagh and Omagh		Northern Ireland	NI	50.1	53.0	51.8	65	96	161	22	32	54	5	149	2
N09000007	Lisburn and Castlereagh		Northern Ireland	NI	41.6	47.7	45.8	71	117	188	24	39	63	10	259	11
N09000008	Mid and East Antrim		Northern Ireland	NI	64.4	53.9	59.1	114	132	246	38	44	82	1	56	8
N09000009	Mid Ulster		Northern Ireland	NI	60.8	53.7	57.2	88	105	193	29	35	64	2	77	6
N09000010	Newry, Mourne and Down		Northern Ireland	NI	51.6	40.3	45.1	93	107	200	31	36	67	11	266	3
S12000033	Aberdeen City		Scotland	SCO	64.6	65.1	65.0	151	223	374	50	74	125	24	29	26
S12000034	Aberdeenshire		Scotland	SCO	67.0	70.3	69.1	220	311	531	73	104	177	20	21	30
S12000041	Angus		Scotland	SCO	75.3	75.3	74.2	129	185	314	43	62	105	16	16	20
S12000035	Argyll and Bute		Scotland	SCO	63.3	64.7	64.7	89	123	212	30	41	71	25	30	19
S12000036	City of Edinburgh		Scotland	SCO	76.4	65.5	70.8	399	518	917	133	173	306	19	19	29
S12000005	Clackmannanshire		Scotland	SCO	63.0	91.6	80.9	41	74	115	14	25	38	8	8	8
S12000006	Dumfries and Galloway		Scotland	SCO	59.7	60.8	61.4	151	199	350	50	66	117	27	46	12
S12000042	Dundee City		Scotland	SCO	79.0	78.3	80.2	136	201	337	45	67	112	10	10	6
S12000008	East Ayrshire		Scotland	SCO	104.2	76.0	88.9	161	156	317	54	52	106	1	1	7
S12000045	East Dunbartonshire		Scotland	SCO	50.6	64.1	59.1	85	156	241	28	52	80	30	57	31
S12000010	East Lothian		Scotland	SCO	65.4	52.8	57.6	93	108	201	31	36	67	31	74	22
S12000011	East Renfrewshire		Scotland	SCO	61.2	62.0	61.9	78	126	204	26	42	68	26	43	32
S12000014	Falkirk		Scotland	SCO	74.9	73.2	74.4	136	187	323	45	62	108	15	15	16
S12000047	Fife		Scotland	SCO	80.4	76.4	79.0	391	518	909	130	173	303	13	13	17
S12000049	Glasgow City		Scotland	SCO	84.5	75.3	80.1	451	593	1,044	150	198	348	11	11	2
S12000017	Highland		Scotland	SCO	70.4	71.2	72.0	237	328	565	79	109	188	18	18	18
S12000018	Inverclyde		Scotland	SCO	95.9	78.9	84.3	92	124	216	31	41	72	4	4	4
S12000019	Midlothian		Scotland	SCO	56.6	60.8	60.3	63	87	150	21	29	50	29	52	14
S12000020	Moray		Scotland	SCO	85.0	76.6	80.8	113	138	251	38	46	84	9	9	23
S12000013	Na h-Eileanan Siar		Scotland	SCO	93.1	72.4	82.5	40	46	86	13	15	29	6	6	10
S12000021	North Ayrshire		Scotland	SCO	82.1	81.4	82.3	148	209	357	49	70	119	7	7	3
S12000050	North Lanarkshire		Scotland	SCO	90.3	72.0	79.9	319	355	674	106	118	225	12	12	5
S12000023	Orkney Islands		Scotland	SCO	78.3	68.7	72.7	27	32	59	9	11	20	17	17	24
S12000048	Perth and Kinross		Scotland	SCO	63.0	70.6	67.7	151	233	384	50	78	128	21	24	28
S12000038	Renfrewshire		Scotland	SCO	92.2	78.9	84.5	196	247	443	65	82	148	2	2	9
S12000026	Scottish Borders		Scotland	SCO	60.3	60.6	61.3	119	154	273	40	51	91	28	47	21
S12000027	Shetland Islands		Scotland	SCO	57.8	39.2	46.9	18	16	34	6	5	11	32	245	25
S12000028	South Ayrshire		Scotland	SCO	76.6	87.1	84.2	140	227	367	47	76	122	5	5	13
S12000029	South Lanarkshire		Scotland	SCO	76.9	72.0	75.0	305	400	705	102	133	235	14	14	11
S12000030	Stirling		Scotland	SCO	55.3	71.5	65.4	66	117	183	22	39	61	23	28	27
S12000039	West Dunbartonshire		Scotland	SCO	81.7	85.8	84.4	80	127	207	27	42	69	3	3	1
S12000040	West Lothian		Scotland	SCO	78.3	58.7	66.9	137	140	277	46	47	92	22	26	15
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	56.0	46.3	50.1	111	147	258	37	49	86	17	183	17
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	68.4	49.5	56.6	104	113	217	35	38	72	6	84	9
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	53.0	57.8	56.2	124	155	279	41	52	93	7	90	20
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	61.6	48.6	58.9	112	128	240	37	43	80	5	60	14
W06000010	Carmarthenshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	49.2	47.6	49.0	152	199	351	51	66	117	18	198	8
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	48.6	48.3	50.5	64	78	142	21	26	47	15	170	16
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	45.0	41.7	47.3	101	134	235	34	45	78	19	240	12
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	51.2	47.2	53.1	49	59	108	16	20	36	14	139	1
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	52.6	51.5	53.5	124	158	282	41	53	94	10	130	6
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	46.7	40.9	44.1	75	100	175	25	33	58	20	280	22
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	58.0	53.0	59.0	108	143	251	36	48	84	4	59	5

Table 1.29 Age-standardised death rates per 100,000 and number of deaths for stroke (CBVD), all ages, by local authority, United Kingdom 2020/22

[Back to Table of Contents](#) [for any content queries please email healthinsights@bhf.org.uk](mailto:healthinsights@bhf.org.uk)

reissued 27 Aug 2024 - errors in some NI ASDRs / rankings					ALL AGES											
					Age-standardised stroke (CBVD) death rates per 100,000 - Annual Average (3-Year)			Total number of stroke (CBVD) deaths 2020/22			Average number of annual stroke (CBVD) deaths for 2020/22			ASDR Rank (1 = highest death rate)		IMD - Rank of average rank (1= most deprived)
					Men	Women	Total	Men	Women	Total	Men	Women	Total	4N	UK-wide	4N
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	28.8	44.1	41.0	42	85	127	14	28	42	22	328	7
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	58.4	50.4	53.2	109	132	241	36	44	80	12	136	18
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	68.7	58.8	63.5	77	100	177	26	33	59	3	37	15
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	54.0	43.3	50.5	109	123	232	36	41	77	16	171	10
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	66.8	57.9	65.8	57	61	118	19	20	39	1	27	2
W06000016	Rhondda Cynon Taf / Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	63.8	60.1	63.8	196	244	440	65	81	147	2	36	4
W06000023	Powys	Powys	Wales / Cymru	WAL	57.9	43.7	53.3	145	160	305	48	53	102	11	133	19
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	60.2	47.5	54.2	208	245	453	69	82	151	9	123	11
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	50.1	40.4	43.7	86	117	203	29	39	68	21	288	21
W06000012	Neath Port Talbot / Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	61.2	44.5	54.5	119	132	251	40	44	84	8	119	3
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	54.5	47.8	53.2	190	227	417	63	76	139	13	137	13

Notes: ICD-10 codes I60-I69. Directly standardised using the 2013 European Standard Population.
Average IMD ranks calculated with same methodology for each nation - population-weighted average rank of all the small census areas in each local authority area
UK local authorities correct April 2024
* indicates number of deaths considered too small to calculate rate. City of London and Isles of Scilly excluded from ASDR analysis - sui generis status (small population)
Totals for male & female deaths may not equal total due to suppression of age-band cohorts in Nomis data - England & Wales only
Average ASDRs for persons may be larger than those of men and women due to small values and suppressed data.

Citation: BHF (2024) Analysis of official UK mortality data
Source: England: Number of deaths and mortality rates are taken from OHID's Mortality Profile
Wales: Number of deaths are taken from Nomis Mortality Statistics, mortality rates calculated by the BHF
Scotland: Mortality rates calculated in partnership with NRS (National Records of Scotland)
Northern Ireland: Mortality rates calculated in partnership with Northern Ireland Statistics and Research Agency
England: Average IMD ranks taken from English Indices of Deprivation
Wales: Average IMD ranks calculated from Welsh Index of Multiple Deprivation
Scotland: Average IMD ranks calculated from Scottish Index of Multiple Deprivation
Northern Ireland: Average IMD ranks calculated from Northern Ireland Multiple Deprivation Measures

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

Table 1.30 Mortality rates from all circulatory diseases by sex and deprivation decile, all ages and under 75, England 2020-22

[Back to Table of Contents](#)

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Deprivation Decile (IMD2019)	All Ages						Under 75s					
	Men		Women		All		Men		Women		All	
	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths
Most deprived	356.1	28,611	218.6	23,032	281.5	51,643	149.8	13,149	66.0	6,009	107.0	19,158
Second most deprived	318.0	27,696	198.8	23,008	253.1	50,704	126.8	11,686	56.0	5,427	90.6	17,113
Third more deprived	314.1	24,105	199.2	20,304	251.6	44,409	121.7	10,209	53.3	4,699	86.6	14,908
Fourth more deprived	304.3	21,211	188.7	17,837	240.8	39,048	107.9	7,747	47.1	3,627	76.5	11,374
Fifth more deprived	290.6	18,099	184.4	15,681	232.9	33,780	104.8	6,544	44.9	2,969	74.0	9,513
Fifth less deprived	273.6	21,764	170.5	18,795	217.0	40,559	96.6	7,686	40.7	3,463	67.8	11,149
Fourth less deprived	271.1	20,848	173.1	18,587	217.7	39,435	92.0	6,923	37.7	3,045	64.0	9,968
Third less deprived	262.5	16,203	163.2	14,141	207.8	30,344	85.1	5,028	35.1	2,224	59.3	7,252
Second least deprived	253.7	13,810	161.8	12,298	203.2	26,108	83.2	4,385	34.9	1,969	58.3	6,354
Least deprived	236.5	13,107	147.5	11,693	187.5	24,800	73.5	3,933	29.1	1,663	50.6	5,596

Notes:

England: Number of deaths and mortality rates are taken from OHID's Mortality Profile - All Circulatory Diseases, district & UA deprivation deciles in England by 3 year range.

Citation:

OHID Public health profiles 2024

Sources:

Office for Health Improvement and Disparities (OHID; 2024). Mortality Profile | Circulatory Disease, England 2020-2022.

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

Table 1.31 Mortality rates denoting chronic heart disease as contributing factor by age, sex, ethnicity, socioeconomic classification and deprivation decile, England 2021-23

[Back to Table of Contents](#) [For any content queries please email \[healthinsights@bhf.org.uk\]\(mailto:healthinsights@bhf.org.uk\)](#)

a Deaths involving chronic ischaemic heart disease by sex and index of multiple deprivation quintile, England 2021/23

	Index of Multiple Deprivation Decile					
	Men		Women		All	
	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths
Most deprived 1	368.3	9,675	160.9	5,470	249.9	15,145
2	318.6	9,025	136.9	5,200	214.0	14,225
3	291.4	9,075	120.2	5,050	193.1	14,125
4	254.4	9,135	105.6	5,090	169.6	14,225
5	234.2	9,285	94.7	5,040	154.8	14,320
6	217.6	9,255	88.7	5,075	144.4	14,330
7	205.5	9,090	81.6	4,835	135.1	13,925
8	195.0	8,875	75.8	4,650	127.3	13,525
9	186.2	8,635	70.3	4,430	120.3	13,065
Least deprived 10	166.6	7,990	63.8	4,105	108.3	12,095

b Deaths involving chronic ischaemic heart disease by ethnicity and index of multiple deprivation quintile, England 2021/23

	Index of Multiple Deprivation Quintile									
	Most deprived: 1		2		3		4		Least deprived: 5	
	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths
Bangladeshi	234.4	220	195.5	145	237.3	75	210.1	35	268.6	30
Black African	72.5	140	68	125	75.9	55	90.5	25	102	15
Black Caribbean	130.6	395	117	350	103.4	185	85.1	80	115.9	60
Chinese	96.9	45	84	45	97.4	50	81.6	40	69.9	35
Indian	247.3	610	220.7	855	207.3	750	178.3	500	157.5	400
Mixed	168.7	150	163.2	155	122.5	105	145	100	127.2	85
Other	156.7	440	154	515	145.6	385	134.8	280	115.4	200
Pakistani	241.7	790	237.6	420	237.8	245	196.5	140	244.3	105
White British	241.5	25,505	184.1	24,620	149.3	25,780	131	25,355	113.8	23,450
White other	211.6	1,080	165.6	1,120	144.1	1,015	127.6	900	109.1	780

c Deaths involving chronic ischaemic heart disease by sex and socioeconomic classification, England 2021-23

	National Statistics Socioeconomic Classification					
	Men		Women		All	
	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths
1 Higher Managerial, Administrative and Professional Occupations	213.7	10,705	81.2	1,230	181	11,935
2 Lower Managerial, Administrative and Professional Occupations	248.3	12,985	94	6,735	158.1	19,715
3 Intermediate Occupations	304.9	4,975	96	7,220	134.4	12,195
4 Small Employers and Own Account Workers	290	13,750	100	2,385	223.8	16,135
5 Lower Supervisory and Technical Occupations	344.8	9,785	138.2	1,605	285.2	11,390
6 Semi-Routine Occupations	360.7	8,010	131.5	9,085	188.6	17,095
7 Routine Occupations	374.8	15,890	167.6	9,265	259.9	25,155
8 Never Worked and Long-Term Unemployed	454.4	13,830	189.8	11,330	286.5	25,160

d Deaths involving chronic ischaemic heart disease by age, sex, and index of multiple deprivation decile, England 2021/23

		Age-standardised deaths per 100,000 person years 2021/2023						Total number of deaths 2021/2023						% of deaths by deprivation out of total deaths for condition						
		<40	40-49	50-59	60-69	70-79	80+	<40	40-49	50-59	60-69	70-79	80+	<40	40-49	50-59	60-69	70-79	80+	
Most deprived: 1	TOTAL	1.7	35.5	119.9	347.4	883.3	2140.5	85	400	1370	2890	4665	5735	18%	19%	18%	16%	12%	8%	
	FEMALE	1	16.9	65.5	198.3	547.5	1518.9	25	100	385	840	1545	2575	24%	22%	21%	18%	13%	9%	
	MALE	2.5	55.7	176.8	501.4	1270.8	3222.4	55	300	990	2055	3115	3160	15%	19%	17%	15%	12%	8%	
2	TOTAL	1.6	24.3	88.5	285.1	729	1961.1	80	290	1075	2490	4275	6015	17%	14%	14%	14%	11%	8%	
	FEMALE	0.7	9.1	46.6	154.3	441.5	1404.7	20	55	290	695	1395	2745	19%	12%	16%	15%	12%	9%	
	MALE	2.6	41	132.9	423.6	1064.9	2939.7	60	230	785	1795	2880	3270	16%	14%	13%	13%	11%	8%	
3	TOTAL	1.4	22.6	73.8	242.6	617.2	1886.8	70	275	930	2260	4070	6520	15%	13%	12%	12%	11%	9%	
	FEMALE	0.5	10.4	32.8	129.2	359.4	1314.7	15	65	210	620	1280	2860	14%	14%	12%	13%	11%	9%	
	MALE	2.4	35.7	117.2	363.3	918.6	2854.4	60	210	720	1640	2795	3660	16%	13%	12%	12%	12%	10%	9%
4	TOTAL	1.1	20	65.5	190.2	524.3	1738.7	55	245	860	1950	4090	7025	11%	12%	11%	11%	11%	10%	
	FEMALE	-	8.9	29.5	95.8	303.7	1215.2	-	55	200	505	1265	3055	-	12%	11%	11%	11%	10%	
	MALE	2	31.8	103.4	290.6	777.5	2589.3	45	185	660	1445	2825	3970	12%	12%	11%	11%	11%	10%	
5	TOTAL	1	16.6	55	165.9	464.7	1644.4	50	205	750	1820	4045	7455	10%	10%	10%	10%	10%	10%	
	FEMALE	0.4	7.6	26.5	83.6	248.4	1135.8	10	50	185	475	1150	3170	10%	11%	10%	10%	10%	10%	
	MALE	1.7	26.3	85.1	253.8	709.5	2460.6	40	155	565	1345	2895	4285	11%	10%	9%	10%	10%	10%	
6	TOTAL	0.9	12.9	49	145.5	416.5	1596.4	45	160	690	1680	3935	7820	9%	8%	9%	9%	10%	11%	
	FEMALE	-	5.9	20.7	69.1	230.2	1103.4	-	40	150	415	1155	3315	-	9%	8%	9%	10%	11%	
	MALE	1.7	20.5	78.9	227	627.2	2371.9	35	125	540	1270	2780	4505	9%	8%	9%	9%	10%	11%	
7	TOTAL	0.8	11.5	43	129.2	367	1558.2	35	140	610	1525	3645	7960	7%	7%	8%	8%	9%	11%	
	FEMALE	-	4.5	17.1	60.6	196.5	1053.9	-	30	125	370	1035	3265	-	6%	7%	7%	8%	9%	11%
	MALE	1.4	19.1	70.2	202.5	559.2	2337.1	30	115	485	1155	2610	4695	8%	7%	8%	9%	10%	11%	
8	TOTAL	0.6	11.6	37.3	111.9	348	1495.7	25	145	540	1340	3570	7910	5%	7%	7%	7%	9%	11%	
	FEMALE	-	5.2	14.3	50.3	188.1	986.9	-	35	105	310	1025	3710	-	8%	6%	7%	9%	10%	
	MALE	1	18.5	61.6	177.9	529.4	2267.1	20	110	435	1025	2545	4740	5%	7%	7%	8%	9%	11%	
9	TOTAL	0.7	8.2	34.3	97.6	324.6	1446.7	30	105	495	1160	3395	7885	6%	5%	6%	6%	9%	11%	
	FEMALE	-	2.7	10.1	45.7	163.7	950.1	-	20	75	280	915	3140	-	4%	4%	6%	8%	10%	
	MALE	1.2	14.2	59.7	153.2	508.1	2200.4	25	85	420	880	2480	4745	7%	5%	7%	7%	9%	11%	
Least deprived: 10	TOTAL	-	7.3	31.3	84.3	273.9	1344.4	-	95	455	1005	2910	7615	-	5%	6%	6%	8%	11%	
	FEMALE	-	2.6	9.6	37.7	148.4	868.9	-	20	70	230	840	2940	-	4%	4%	5%	7%	10%	
	MALE	-	12.5	54.1	133.9	416.9	2047.2	-	80	385	775	2070	4675	-	5%	6%	6%	8%	11%	
All persons		1	16.8	57.7	169.8	454.5	1627.8	480	2,040	7,780	18,120	38,595	71,945							
All females		0.4	7.2	26	86.1	256.2	1114.7	105	465	1,800	4,740	11,600	30,235							
All males		1.7	27	91.2	258.8	680.8	2438.6	325	1,595	5,980	13,380	26,995	41,710							

Table 1.32 Mortality rates denoting stroke as contributing factor by age, sex, ethnicity, socioeconomic classification and deprivation, England 2021-23

[Back to Table of Contents](#)

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a Deaths involving stroke disease by sex and index of multiple deprivation decile, England 2021-23

	Index of Multiple Deprivation Decile					
	Men		Women		All	
	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths
Most deprived 1	150.5	3,730	113.5	3,850	129.8	7,580
2	135.3	3,675	107.5	4,095	119.9	7,770
3	121.8	3,625	102.3	4,315	111.2	7,940
4	114.5	3,960	94.3	4,570	103.5	8,530
5	110.4	4,235	87.6	4,685	97.7	8,920
6	103.0	4,235	85.1	4,890	93.1	9,125
7	99.3	4,290	82.1	4,880	89.8	9,170
8	94.5	4,195	79.7	4,895	86.4	9,090
9	87.9	3,995	76.5	4,825	81.8	8,820
Least deprived 10	82.7	3,910	70.0	4,510	75.7	8,420

b Deaths involving stroke by ethnicity and index of multiple deprivation quintile, England 2021-23

	Index of Multiple Deprivation Quintile					
	2		3		4	
	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths
Most deprived: 1	154.9	145	147.9	110	180.5	55
Bangladeshi	96.3	185	98.8	165	90.3	75
Black African	127.5	400	110.7	335	102.6	180
Black Caribbean	96.8	45	80.6	45	66.7	30
Chinese	142.8	340	107.8	415	99.7	355
Indian	97.5	85	93.9	85	91.7	80
Mixed	92.2	245	87.4	285	85.4	230
Other	118.6	390	118.5	195	120.6	130
Pakistani	126.6	13,010	107.6	14,200	95.2	16,295
White British	106.3	520	98.2	630	87.8	615
White other					83.9	585
Least deprived: 5					117.4	15
					166.1	50
					99.4	90
					75.0	40
					87.7	230
					106.3	75
					87.4	175
					114.0	70
					88.0	16,940
					83.9	585
					147.3	15
					94.5	20
					80.8	40
					66.1	35
					80.7	190
					86.2	60
					72.4	120
					117.4	50
					78.7	16,165
					78.0	545

c Deaths involving stroke by sex and socioeconomic classification, England 2021-23

	National Statistics Socioeconomic Classification					
	Men		Women		All	
	ASDR	Number of deaths	ASDR	Number of deaths	ASDR	Number of deaths
1 Higher Managerial, Administrative and Professional Occupations	110.4	5,345	90.2	1,325	105.2	6,675
2 Lower Managerial, Administrative and Professional Occupations	117.6	5,965	99.1	7,090	107.0	13,055
3 Intermediate Occupations	145.1	2,310	97.7	7,350	106.5	9,660
4 Small Employers and Own Account Workers	133.5	6,050	104.4	2,440	124.1	8,490
5 Lower Supervisory and Technical Occupations	144.0	4,055	122.0	1,430	138.0	5,485
6 Semi-Routine Occupations	159.2	3,380	113.9	7,900	125.3	11,275
7 Routine Occupations	160.2	6,495	131.1	7,440	144.5	13,935
8 Never Worked and Long-Term Unemployed	201.4	6,140	166.2	10,415	180.3	16,555

d Deaths involving stroke by age, sex, and index of multiple deprivation decile, England 2021-23

		Age-standardised deaths per 100,000 person years 2021/2023						Total number of deaths 2021/2023						% of deaths by deprivation out of total deaths for condition					
		<40		40-49		50-59		60-69		70-79		80+		<40		40-49		50-59	
		100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Most deprived: 1	TOTAL	1.7	14.5	45.8	128.1	390.5	1,392	85	165	525	1,065	2,055	3,685	15%	16%	16%	14%	10%	7%
	FEMALE	1.4	12.7	38.8	103.0	309.0	1,298	40	75	225	435	870	2,200	16%	15%	16%	14%	9%	7%
	MALE	2.1	16.4	53.2	154.2	484.7	1,546	50	90	295	630	1,180	1,485	15%	16%	16%	15%	11%	7%
2	TOTAL	1.8	10.8	35.4	114.1	346.0	1,345	95	130	430	990	2,020	4,105	16%	12%	13%	13%	10%	8%
	FEMALE	1.3	9.2	30.1	83.7	296.9	1,277	35	60	190	375	940	2,500	14%	12%	14%	12%	10%	8%
	MALE	2.3	12.6	41.0	146.3	403.2	1,450	55	70	240	620	1,085	1,605	16%	12%	13%	14%	10%	7%
3	TOTAL	1.3	10.6	30.0	86.4	304.9	1,327	65	130	380	805	2,005	4,560	11%	12%	12%	11%	10%	9%
	FEMALE	1.1	8.3	27.1	71.9	263.6	1,274	30	55	175	345	935	2,775	12%	11%	13%	11%	10%	9%
	MALE	1.5	13.0	33.2	101.8	353.4	1,399	35	75	205	460	1,070	1,780	10%	13%	11%	11%	10%	8%
4	TOTAL	1.5	10.1	25.9	76.4	273.3	1,264	75	125	340	785	2,130	5,080	13%	12%	11%	11%	10%	10%
	FEMALE	1.3	8.8	22.2	60.9	234.7	1,202	35	55	150	320	980	3,030	14%	11%	11%	10%	11%	10%
	MALE	1.8	11.6	29.7	92.8	317.2	1,349	45	70	190	460	1,150	2,050	13%	12%	10%	11%	10%	9%
5	TOTAL	1.2	9.2	25.3	71.2	240.8	1,227	55	110	345	780	2,095	5,530	9%	10%	11%	10%	10%	11%
	FEMALE	1.1	8.2	21.4	56.8	200.5	1,146	25	50	150	320	925	3,205	10%	10%	11%	10%	10%	10%
	MALE	1.3	10.2	29.5	86.6	286.3	1,346	30	60	195	460	1,165	2,325	9%	11%	11%	11%	10%	11%
6	TOTAL	0.9	8.8	20.6	58.3	224.5	1,209	45	110	290	675	2,120	5,890	8%	10%	9%	9%	10%	11%
	FEMALE	0.6	8.7	16.9	50.9	194.8	1,135	15	55	120	305	975	3,415	6%	11%	9%	10%	10%	11%
	MALE	1.3	9.0	24.5	66.3	257.8	1,314	30	55	170	370	1,140	2,475	9%	10%	9%	9%	10%	11%
7	TOTAL	1.0	6.5	19.2	53.3	212.2	1,187	45	80	275	630	2,110	6,035	8%	8%	9%	8%	10%	11%
	FEMALE	0.8	5.8	16.2	44.6	182.4	1,120	20	35	120	275	960	3,470	8%	7%	9%	9%	10%	11%
	MALE	1.2	7.3	22.4	62.6	245.9	1,280	25	45	155	360	1,145	2,565	7%	8%	8%	8%	10%	12%
8	TOTAL	1.0	5.4	16.9	53.8	205.3	1,141	40	70	245	645	2,105	5,990	7%	7%	8%	9%	10%	11%
	FEMALE	0.9	5.8	13.5	42.9	172.0	1,101	20	40	100	265	940	3,535	8%	8%	7%	9%	10%	11%
	MALE	1.1	5.0	20.5	65.4	243.0	1,197	25	30	145	380	1,165	2,455	7%	5%	8%	9%	10%	11%
9	TOTAL	1.0	5.9	12.9	48.4	190.9	1,098	40	75	185	575	1,995	5,945	7%	7%	6%	8%	10%	11%
	FEMALE	0.8	6.0	9.7	42.9	163.1	1,065	20	40	70	265	910	3,520	8%	8%	5%	9%	10%	11%
	MALE	1.2	5.8	16.3	54.3	222.5	1,137	25	35	115	310	1,085	2,425	7%	6%	6%	7%	10%	11%
Least deprived: 10	TOTAL	0.9	5.2	14.5	40.8	168.5	1,033	35	70	210	490	1,790	5,830	6%	7%	7%	7%	9%	11%
	FEMALE	0.6	3.5	12.4	33.6	151.4	980	10	25	95	205	855	3,320	4%	5%	7%	7%	9%	11%
	MALE	1.4	7.1	16.6	48.5	187.8	1,103	25	45	120	280	935	2,510	7%	8%	7%	6%	8%	12%
All persons		1.3	8.6	23.9	69.7	240.6	1,199	585	1,055	3,225	7,435	20,425	52,645						
All females		1.0	7.6	20.2	56.5	205.2	1,141	245	490	1,395	3,110	9,295	30,975						
All males		1.5	9.6	27.9	83.7	281.1	1,280	340	570	1,830	4,325	11,130	21,670						

Notes: Values have been rounded so individual figures may not add up to the total for a given category.

Dashes have been included to indicate where data have been suppressed.

The ICD-10 codes were used to categorise inequalities in mortality involving stroke. Rates for 2021-23 are based on deaths involving a given heart condition as mentioned anywhere in death certificate (may be underlying cause or contributing factor).

Number of deaths involving stroke are based on figures recorded between 21st March 2021 and 31 January 2023. These have been taken from usual residents in England who were registered by 17 April 2023 and completed the 2021 Census. Personal Demographics Service data for 2019 was used for linkage.

Citation: BHF (2023) Analysis of ONS stroke mortality data

Sources: Office for National Statistics (2023). Inequalities in mortality involving common physical health conditions, England: 21 March 2021 to 31 January 2023

<https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthinequalities/bulletins/inequalitiesmortalityinvolvingcommonphysicalhealthconditionsand/21march2021to31january2023>

Table 1.33 Mortality rates for coronary heart disease and stroke as contributing factor by sex and ethnicity, England and Wales 2017/19

[Back to Table of Contents](#)

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a Deaths from coronary (ischaemic) heart disease by ethnicity, England and Wales 2017/19

		Number of deaths			Age-standardised mortality		
		Men	Women	All	Men	Women	All
Persons aged 10+	Asian Other	547	269	816	138.6	65.6	98.3
	Bangladeshi	326	172	497	219	114.8	165.1
	Black African	267	114	383	103	34.5	65.5
	Black Caribbean	736	510	1,246	116	63.6	86.4
	Black Other	123	44	164	138.9	38.8	79.0
	Indian	2,051	1,052	3,104	190.9	99.3	143.5
	Mixed/Multiple	589	251	838	188.4	68.6	122.1
	Other	508	272	780	103.4	61.9	82.6
	Pakistani	1,106	513	1,620	206.7	109.6	159.3
	White	95,542	57,817	153,356	157.9	70.5	109.5
Persons aged 65+	Asian Other	378	226	603	546.2	280.2	398.7
	Bangladeshi	227	133	361	867	463.3	653.1
	Black African	178	75	253	429	141.3	269.3
	Black Caribbean	553	439	991	432	262.6	335.2
	Black Other	70	29	97	540.7	155.6	306.4
	Indian	1,554	938	2,492	746.4	426.1	579.3
	Mixed/Multiple	401	189	587	739.8	280.8	483.4
	Other	384	251	635	421.6	273.6	347.2
	Pakistani	723	402	1,127	770.3	447	613.4
	White	79,325	53,074	132,397	607.7	290.7	428.4

b Deaths from stroke (CBVD) by ethnicity, England and Wales 2017/19

		Number of deaths			Age-standardised mortality		
		Men	Women	All	Men	Women	All
Persons aged 10+	Asian Other	196	203	399	57.4	48.7	52.5
	Bangladeshi	163	126	289	113	80.4	94.4
	Black African	188	128	317	59	34.4	46.1
	Black Caribbean	419	461	883	67	58.2	62.2
	Black Other	49	55	104	54.2	43.6	48.5
	Indian	660	550	1,212	69.7	53.4	60.9
	Mixed/Multiple	200	200	400	71.8	58.8	65.1
	Other	258	218	477	57.5	49.3	53.9
	Pakistani	352	260	612	70.4	57.1	63.9
	White	36,453	48,961	85,413	62.3	58.2	60.3
Persons aged 65+	Asian Other	149	158	308	238.6	204.1	219.2
	Bangladeshi	126	86	211	467	314.5	381.6
	Black African	99	74	175	231	137.4	182.5
	Black Caribbean	366	408	775	278	243.4	258.6
	Black Other	30	33	63	207.7	170.8	187.3
	Indian	558	500	1,058	294.2	232.2	260.2
	Mixed/Multiple	169	166	334	309.7	251.4	279.4
	Other	216	197	415	246.5	216.5	233.8
	Pakistani	269	204	472	284.6	235.5	260.5
	White	32,998	46,130	79,128	260.8	247.2	254.4

Notes:

The number of deaths for 2017-19 figures include data from the 2011 Census, Patient Register, and death records.

Over 96% of death records were linked to Census data from 2011. Unlinked data may result in small discrepancies in the characteristics. Figures for 2017-19 show mortality rates denoting ischaemic heart diseases as the underlying cause.

Age standardised mortality rates for 2017-19 were calculated with a weighted average of 100,000 people and the 2013 European Standard Population estimates.

Ethnicity categories for 2017-19 data represent the self-reported ethnic backgrounds data from the 2011 Census.

Figures include data from usual residents in England and Wales.

Citation:

BHF (2023) Analysis of ONS CHD & stroke mortality data

Sources:

Office for National Statistics (2021). Mortality from leading causes of death by ethnic group, England and Wales: 2012 to 2019

<https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/articles/mortalityfromleadingcausesofdeathbyethnicgroupenglandandwales/2012to2019>

Table 1.34 Deaths and mortality rates for cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2021

[Back to Table of Contents](#)

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Region	Country	CVD Deaths 2021 estimate	CVD Death Rate (ASDR) 2021	CVD % All Deaths 2021	CHD Deaths 2021 estimate	CHD Death Rate (ASDR) 2021	CHD % All Deaths 2021	Stroke Deaths 2021 estimate	Stroke Death Rate (ASDR) 2021	Stroke % All Deaths 2021
GLOBAL		19,414,853	235	29%	8,991,637	109	13%	7,252,676	87	11%
EUROPE		3,692,021	208	35%	1,920,715	108	18%	1,041,515	58	10%
	Albania	14,053	345	47%	6,440	158	21%	6,157	151	21%
	Andorra	156	88	25%	72	41	11%	37	21	6%
	Austria	29,290	129	33%	15,283	68	17%	4,861	21	5%
	Belarus	76,018	467	47%	55,916	342	35%	15,977	98	10%
	Belgium	26,402	90	24%	10,793	38	10%	7,669	26	7%
	Bosnia and Herzegovina	18,769	295	40%	8,774	138	19%	7,098	110	15%
	Bulgaria	75,617	530	45%	28,584	204	17%	28,017	192	17%
	Croatia	23,393	237	37%	12,816	131	21%	6,675	66	11%
	Cyprus	3,038	185	33%	1,480	87	16%	770	48	8%
	Czechia	46,794	201	34%	29,572	127	21%	9,549	41	7%
	Denmark	12,978	95	23%	5,359	40	9%	4,224	31	7%
	Estonia	7,252	224	39%	3,005	92	16%	1,149	36	6%
	Finland	22,551	143	39%	12,173	77	21%	4,757	30	8%
	France	152,728	79	24%	56,002	30	9%	43,128	22	7%
	Germany	319,026	133	32%	150,617	64	15%	62,834	26	6%
	Greece	48,088	154	33%	21,284	73	15%	17,207	52	12%
	Hungary	57,964	273	38%	33,246	155	22%	11,846	55	8%
	Iceland	701	101	31%	395	58	17%	149	21	7%
	Ireland	8,293	98	26%	4,458	53	14%	1,907	22	6%
	Italy	216,272	109	31%	85,031	44	12%	61,859	31	9%
	Latvia	14,911	330	44%	7,353	160	21%	5,052	106	15%
	Lithuania	20,227	303	43%	13,394	197	28%	4,628	68	10%
	Luxembourg	1,275	104	28%	551	46	12%	323	26	7%
	Malta	1,307	117	32%	784	71	19%	267	24	7%
	Montenegro	4,327	513	44%	1,800	213	18%	1,908	226	19%
	Netherlands	40,439	101	24%	14,789	37	9%	12,361	31	7%
	North Macedonia	13,288	560	41%	4,658	196	14%	6,606	277	20%
	Norway	10,906	90	26%	4,859	41	12%	2,849	23	7%
	Poland	168,854	218	33%	88,242	113	17%	45,065	58	9%
	Portugal	32,680	106	27%	10,702	37	9%	14,030	44	11%
	Republic of Moldova	21,918	363	44%	13,930	231	28%	5,144	85	10%
	Romania	146,016	359	44%	62,394	154	19%	53,000	128	16%
	Russian Federation	939,256	395	39%	512,524	213	21%	311,447	130	13%
	Serbia	68,868	398	46%	29,979	174	20%	27,995	160	19%
	Slovakia	27,057	285	37%	17,504	185	24%	6,312	66	9%
	Slovenia	7,245	132	31%	2,449	46	11%	1,848	33	8%
	Spain	115,285	90	26%	43,082	35	10%	31,953	24	7%
	Sweden	29,625	107	32%	14,044	52	15%	6,810	24	7%
	Switzerland	20,297	84	29%	9,513	40	14%	4,209	17	6%
	Ukraine	411,023	521	55%	297,503	373	40%	82,352	104	11%
	United Kingdom	# 159,730	107	23%	76,354	52	11%	40,895	26	6%
	England **	# 130,029	103	23%	61,840	50	11%	32,763	25	6%
	Scotland **	# 16,877	134	26%	8,283	68	13%	4,739	36	7%
	Wales **	# 8,748	116	24%	4,291	58	12%	2,211	28	6%
	Northern Ireland **	# 4,075	106	23%	1,940	51	11%	1,182	30	7%
NORTH AMERICA		981,484	139	26%	534,819	76	14%	208,817	29	6%
	Canada	75,621	93	24%	41,494	51	13%	17,000	20	5%
	United States	905,653	145	26%	493,222	79	14%	191,770	30	6%
LATIN AMERICA & CARIBBEAN		964,741	161	19%	503,765	84	10%	279,487	47	6%
	Brazil	374,765	154	21%	157,550	64	9%	125,715	52	7%
ASIA		11,897,583	257	32%	5,257,939	113	14%	5,026,054	108	14%
	China	5,085,458	280	43%	1,956,859	111	17%	2,591,647	138	22%
	India	2,873,266	268	24%	1,632,882	151	14%	772,976	72	7%
	Japan	371,917	72	26%	123,164	25	9%	146,731	28	10%
	Türkiye (Turkey)	205,740	248	31%	112,055	133	17%	59,381	72	9%
	United Arab Emirates	5,123	314	26%	2,885	168	14%	1,244	89	6%
AFRICA		1,737,930	334	16%	717,486	139	6%	654,704	126	6%
	South Africa	98,605	256	13%	30,301	78	4%	39,457	103	5%
AUSTRALASIA		58,243	94	28%	28,640	47	14%	14,633	23	7%
	Australia	47,254	90	27%	23,032	44	13%	11,937	22	7%
	New Zealand	10,989	119	32%	5,609	61	16%	2,696	29	8%

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

Actual annual numbers of UK deaths from official statistical agencies for 2021 are shown in tables 1.4, 1.6, and 1.8.

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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

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

Regions and Countries as defined by the Global Health Data Exchange

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

Citation: BHF (2024) Analysis of GBD mortality data

Source: Global Burden of Disease Collaborative Network.

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

Global Burden of Disease Study (2024) Results.

[accessed July 2024]

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

Table 1.35 Years of life lost (YLLs) and disability-adjusted life years (DALYs) for CVD, CHD, and stroke, by country and continent 2021

[Back to Table of Contents](#)

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Region	Country	YLLs CVD A/S 2021 estimate	YLLs CHD A/S 2021 estimate	YLLs Stroke A/S 2021 estimate	DALYs CVD A/S 2021	DALYs CHD A/S 2021	DALYs Stroke A/S 2021
GLOBAL		4,671.6	2,164.9	1,707.5	5,055.9	2,212.2	1,886.2
EUROPE		3,862.5	2,006.9	1,017.7	4,241.5	2,060.9	1,166.8
	Albania	5,285.5	2,486.8	2,168.0	5,735.7	2,558.3	2,316.2
	Andorra	1,406.9	683.3	314.1	1,655.2	724.4	404.6
	Austria	1,962.2	1,069.6	323.3	2,364.2	1,121.6	486.5
	Belarus	8,782.3	6,169.1	1,822.0	9,179.5	6,244.3	2,037.4
	Belgium	1,479.9	662.0	410.9	1,773.2	698.8	510.6
	Bosnia and Herzegovina	5,007.2	2,378.0	1,796.1	5,444.2	2,450.2	2,022.8
	Bulgaria	9,374.2	3,787.3	3,205.3	9,804.6	3,852.3	3,430.2
	Croatia	3,708.7	2,025.8	1,013.6	4,021.3	2,099.6	1,174.3
	Cyprus	2,633.8	1,354.2	613.5	2,850.3	1,395.0	684.9
	Czechia	3,262.7	2,021.9	641.0	3,742.0	2,101.4	812.2
	Denmark	1,514.0	672.2	463.0	1,794.0	710.2	568.3
	Estonia	3,722.7	1,486.1	610.2	4,063.0	1,547.9	751.1
	Finland	2,327.1	1,249.7	477.5	2,680.0	1,299.1	633.8
	France	1,255.1	504.3	338.7	1,785.8	556.0	444.1
	Germany	2,129.2	1,054.7	422.6	2,527.6	1,096.6	575.7
	Greece	2,680.7	1,409.1	788.6	2,927.3	1,443.4	909.5
	Hungary	4,909.8	2,715.8	974.2	5,266.5	2,781.0	1,143.4
	Iceland	1,595.1	954.7	308.1	1,846.7	990.5	420.2
	Ireland	1,555.4	880.8	321.2	1,813.1	924.2	403.5
	Italy	1,649.2	707.9	443.4	1,956.2	747.1	524.4
	Latvia	6,205.0	2,847.4	1,714.3	6,589.9	2,916.5	1,912.7
	Lithuania	5,307.0	3,266.0	1,150.5	5,695.8	3,332.3	1,335.3
	Luxembourg	1,600.3	745.0	384.0	1,940.7	789.8	462.8
	Malta	1,962.5	1,223.8	370.3	2,201.1	1,270.5	452.2
	Montenegro	8,072.4	3,452.1	3,357.1	8,440.5	3,538.2	3,517.2
	Netherlands	1,501.9	593.1	432.9	1,817.7	633.6	544.8
	North Macedonia	8,463.2	3,085.1	4,040.4	8,869.1	3,156.9	4,267.2
	Norway	1,369.4	658.5	333.3	1,685.3	698.3	468.1
	Poland	3,729.3	1,904.9	981.2	4,101.1	1,991.5	1,118.6
	Portugal	1,766.3	682.6	683.6	2,014.1	720.7	763.6
	Republic of Moldova	7,029.7	4,317.8	1,717.1	7,365.8	4,379.7	1,888.9
	Romania	6,402.3	2,769.7	2,163.4	6,771.6	2,838.0	2,361.2
	Russian Federation	7,859.6	4,016.8	2,321.1	8,261.8	4,082.2	2,519.6
	Serbia	6,465.5	2,875.4	2,514.1	6,821.9	2,952.0	2,695.7
	Slovakia	4,788.9	3,005.1	1,126.6	5,263.5	3,080.7	1,345.6
	Slovenia	1,995.0	750.0	477.4	2,312.3	822.8	591.3
	Spain	1,493.1	641.5	374.0	1,828.6	678.7	483.6
	Sweden	1,590.2	796.4	347.4	2,056.5	860.8	478.4
	Switzerland	1,233.8	604.5	246.3	1,466.6	639.2	333.3
	Ukraine	9,578.9	6,456.4	1,935.9	9,957.2	6,522.7	2,153.0
	<i>United Kingdom</i>	1,840.0	946.5	405.1	2,138.6	983.9	511.8
	<i>England **</i>	<i>1,772.1</i>	<i>904.7</i>	<i>385.8</i>	<i>2,054.0</i>	<i>940.6</i>	<i>481.1</i>
	<i>Scotland **</i>	<i>2,400.8</i>	<i>1,282.7</i>	<i>564.7</i>	<i>2,836.0</i>	<i>1,329.7</i>	<i>779.5</i>
	<i>Wales **</i>	<i>2,060.2</i>	<i>1,085.1</i>	<i>439.6</i>	<i>2,398.1</i>	<i>1,128.3</i>	<i>550.1</i>
	<i>Northern Ireland **</i>	<i>1,781.6</i>	<i>923.8</i>	<i>440.3</i>	<i>2,084.9</i>	<i>965.5</i>	<i>550.2</i>
NORTH AMERICA		2,635.0	1,423.9	505.7	3,060.7	1,461.8	671.5
	Canada	1,587.1	882.0	322.5	2,035.5	922.5	479.0
	United States	2,761.7	1,489.7	528.0	3,184.6	1,527.3	694.9
LATIN AMERICA & CARIBBEAN		3,284.2	1,691.2	964.6	3,602.4	1,741.8	1,039.8
	Brazil	3,291.8	1,419.6	1,068.5	3,638.8	1,469.7	1,141.7
ASIA		5,105.6	2,295.2	2,077.8	5,476.7	2,340.9	2,280.1
	China	4,709.0	1,810.5	2,395.4	5,120.1	1,856.5	2,648.0
	India	5,871.7	3,351.2	1,521.7	6,151.1	3,400.0	1,625.7
	Japan	1,323.4	480.3	516.2	1,651.0	502.3	710.5
	Türkiye (Turkey)	4,269.9	2,355.9	1,200.4	4,615.0	2,419.3	1,343.0
	United Arab Emirates	5,319.8	2,845.9	1,458.7	5,758.5	2,923.7	1,648.8
AFRICA		6,533.8	2,696.2	2,449.1	6,969.4	2,743.5	2,628.1
	South Africa	4,938.6	1,525.7	1,930.5	5,389.7	1,568.5	2,118.8
AUSTRALASIA		1,524.9	774.0	340.2	1,869.9	812.7	449.3
	Australia	1,446.4	729.4	324.8	1,804.4	768.6	435.0
	New Zealand	1,945.0	1,013.1	424.1	2,222.5	1,048.6	527.3

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, I27.0, I27.2, I28-I28.9, 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

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

Regions and countries as defined by the Global Health Data Exchange

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

Citation: BHF (2024) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.

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

Global Burden of Disease Study (2024) Results.

[accessed July 2024]

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.



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bhf.org.uk/statistics

Heart and Circulatory Disease Statistics 2024 - Chapter 2 - Morbidity - Incidence & Prevalence

INCIDENCE - HOSPITAL ADMISSIONS

- [2.1](#) Inpatient admissions by main diagnosis in NHS hospitals, by sex, England, Scotland, Wales, Northern Ireland and United Kingdom 2022/23
- [2.2a](#) All inpatient admissions by main diagnosis, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2022/23
- [2.2b](#) Inpatient admissions by main diagnosis for men, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2022/23
- [2.2c](#) Inpatient admissions by main diagnosis for women, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 - 2022/23

INCIDENCE - HOSPITAL EPISODES (FCEs)

- [2.3](#) Inpatient episodes by main diagnosis in NHS hospitals, by sex, England, Scotland, Wales, Northern Ireland and United Kingdom 2022/23
- [2.4a](#) All inpatient episodes by main diagnosis, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 to 2022/23
- [2.4b](#) Inpatient episodes by main diagnosis for men, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 to 2022/23
- [2.4c](#) Inpatient episodes by main diagnosis for women, England, Scotland, Wales, Northern Ireland and United Kingdom 2005/06 to 2022/23
- [2.5](#) Inpatient episodes for cardiovascular diagnoses by sex and age, England 2022/23
- [2.6](#) Hospital discharges by cardiovascular condition by sex and age, Scotland 2013/14 to 2022/23
- [2.7](#) Inpatient episodes for cardiovascular diagnoses by sex and age, Wales 2022/23
- [2.8](#) Inpatient episodes for cardiovascular diagnoses by sex and age, Northern Ireland 2022/23

GLOBAL INCIDENCE

- [2.9](#) Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) by UK nation and English region, 2021
- [2.10](#) Incidence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations 2021

PREVALENCE - GP Patient Registers

- [2.11](#) Prevalence of selected cardiovascular conditions by UK nation and English region, United Kingdom - latest available
- [2.12](#) Prevalence of cardiovascular conditions from GP patient registers, UK 2006/07 to 2022/23
- [2.13](#) Prevalence of cardiovascular conditions from GP patient registers, England 2004/05 to 2022/23
- [2.14](#) Prevalence of selected cardiovascular conditions from CVDPREVENT, unadjusted percentages and age-standardised by deprivation quintile, England, Mar 2024
- [2.15](#) Prevalence of selected cardiovascular conditions from CVDPREVENT, unadjusted percentages by sex and age, plus age-standardised by gender, England, Mar 2024
- [2.16](#) Prevalence of cardiovascular conditions from GP patient registers, diagnosed percentages by deprivation decile, England, latest
- [2.17](#) Prevalence of cardiovascular conditions from GP patient registers, Scotland 2008/09 to 2022/23
- [2.18](#) Prevalence of cardiovascular conditions from GP patient registers, Wales 2006/07 to 2021/22
- [2.19](#) Prevalence of cardiovascular conditions from GP patient registers, by age, Wales 2021/22
- [2.20](#) Prevalence of cardiovascular conditions from GP patient registers, Northern Ireland 2004/05 to 2023/24
- [2.21](#) Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

PREVALENCE - Health Surveys

- [2.22](#) Prevalence of cardiovascular conditions from national health survey by sex, England 2003 to 2017
- [2.23](#) Prevalence of cardiovascular conditions from national health survey by age, England 2003 to 2017
- [2.24](#) Prevalence of cardiovascular conditions by local authority, GP survey data, England 2021
- [2.25](#) Prevalence of cardiovascular conditions from national health survey by equivalised household income and sex, England 2017
- [2.26](#) Prevalence of cardiovascular conditions from national health survey by sex, Scotland 2003 to 2022
- [2.27](#) Prevalence of cardiovascular conditions from national health survey by age, Scotland 2003 to 2022
- [2.28](#) Prevalence of cardiovascular conditions from national health survey by equivalised household income and sex, Scotland 2022
- [2.29](#) Prevalence of selected cardiovascular conditions from national health survey by deprivation quintile and sex, Scotland 2022
- [2.30](#) Prevalence of any cardiovascular condition from national health survey by deprivation quintile and sex, Scotland 2003 to 2022
- [2.31](#) Prevalence of heart and circulatory complaints from national survey by sex and age, Wales 2016/17 to 2022/23
- [2.32](#) Prevalence of heart and circulatory complaints from national survey by deprivation quintile, Wales 2016/17 to 2022/23

CONGENITAL HEART DISEASE

- [2.33](#) Prevalence of congenital heart disease, diagnoses in babies, England 2021

GLOBAL PREVALENCE

- [2.34](#) Prevalence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) by UK nation and English region, 2021
- [2.35](#) Prevalence of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD), selected nations 2021

Table 2.1 Inpatient admissions by main diagnosis in National Health Service hospitals by sex, England, Scotland, Wales, Northern Ireland and United Kingdom 2022/23

[Back to Table of Contents](#)

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	England		Scotland		Wales		Northern Ireland		United Kingdom		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
All diagnoses	7,418,000	8,967,000	520,765	569,304	324,572	401,380	237,000	225,000	8,500,337	10,162,684	18,678,141
All heart and circulatory diseases (C38.0, F01, G45, I00-I99, P29, Q20-Q28)	553,400	411,000	46,800	35,294	25,725	18,945	16,900	11,100	642,825	476,339	1,119,240
Diseases of the circulatory system (I00-I99)	531,700	390,800	44,994	33,594	24,968	18,210	16,500	10,700	618,162	453,304	1,071,600
Coronary heart disease (I20-I25)	148,200	69,900	14,429	7,357	7,371	3,506	6,700	2,600	176,700	83,363	260,074
<i>Angina pectoris (I20)</i>	23,400	14,000	2,291	1,417	774	479	780	330	27,245	16,226	43,567
<i>Myocardial infarction (I21-I22)</i>	53,250	26,800	6,659	3,470	3,134	1,560	2,700	1,100	65,743	32,930	98,698
Stroke (I60-I69)	60,600	55,500	6,482	6,082	3,566	3,180	600	600	71,248	65,362	136,641
Atrial fibrillation (I48)	60,600	48,600	4,740	3,955	2,766	1,880	1,900	1,300	70,006	55,735	126,055
Heart failure (I50)	52,000	44,600	4,248	3,768	2,315	2,076	1,500	1,500	60,063	51,944	112,027
Other cardiovascular disease (I00-99 only; not listed above)	212,000	170,000	15,095	12,432	8,950	7,568	6,000	4,500	242,045	194,500	436,803
Malignant neoplasm: Heart (C38.0)	110	50	*	*	*	4	*	*	110	54	164
Vascular dementia (F01)	1,050	1,130	124	114	172	136	15	12	1,361	1,392	2,757
Transient cerebral ischaemic attacks and related syndromes (G45)	8,150	8,390	1,143	1,063	415	473	44	70	9,752	9,996	19,763
Cardiovascular disorders originating in the perinatal period (P29)	2,000	1,700	*	*	46	20	55	50	2,101	1,770	3,937
Congenital malformations of the circulatory system (Q20-Q28)	10,100	9,117	539	523	124	102	270	200	11,033	9,942	21,019

Notes: Pregnancy cases not included. ICD-10 codes in parentheses. Sex (gender) not recorded for a small number of admissions (England only) (estimated 169 for all CVDs).

For England and Northern Ireland, male/female splits are pro rata estimates based on finished consultant episodes volumes in Table 2.3 and then rounded.

Recent Wales data subject to revision.

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

Citation: BHF (2024) Analysis of UK hospital data

Source: England - NHS England (2023). Hospital Episode Statistics 2022/23 [accessed Feb 2024]

<https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/2022-23>

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Table 2.2a All inpatient admissions by main diagnosis in NHS hospitals, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2022/23

[Back to Table of Contents](#)

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ALL ADMISSIONS																				
	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23		
England	Heart and circulatory diseases (CVD) (I00-I99)			897,843	917,317	925,007	936,007	941,880	930,641	944,753	962,129	994,450	918,298	925,576	947,200	963,783	807,074	936,556	922,621	
	Coronary heart disease (I20-I25)			305,988	300,164	285,426	279,923	280,794	276,762	273,873	269,116	267,016	266,725	263,656	261,100	255,562	205,389	229,895	218,094	
	Myocardial infarction (I21-I22)			77,055	74,230	69,919	62,268	64,088	76,245	78,174	78,278	79,795	80,621	81,637	81,200	82,827	76,150	84,626	80,047	
	Atrial fibrillation (I48)			85,610	88,469	91,782	94,450	96,065	98,169	100,616	102,202	107,513	109,092	109,564	115,300	117,608	96,009	113,902	109,613	
	Heart Failure (I50)			58,582	57,916	58,513	59,221	60,419	62,378	64,200	70,143	76,994	80,603	84,776	86,500	94,146	81,766	98,884	96,659	
	Stroke (I60-I69)			93,136	95,841	101,319	104,475	106,516	107,412	106,531	107,279	108,940	107,828	109,124	111,100	114,991	108,958	115,741	116,074	
	Other cardiovascular disease (I00-99 only; not listed above)			354,527	374,927	387,967	397,938	398,086	385,920	399,533	413,389	433,987	354,050	358,456	373,200	381,508	314,952	378,134	382,181	
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				94,096	91,714	91,518	91,688	90,765	91,252	89,884	90,805	84,036	83,624	83,759	83,099	70,704	78,092	78,588	
	Coronary heart disease (I20-I25)				28,645	26,689	27,331	27,156	26,129	25,943	24,854	24,100	24,417	24,245	24,667	24,288	20,840	22,208	21,786	
	Myocardial infarction (I21-I22)				9,540	9,927	10,980	11,387	11,224	11,095	10,694	10,437	10,651	10,559	10,583	10,625	10,120	10,465	10,129	
	Atrial fibrillation (I48)				8,821	8,724	9,203	9,304	9,192	9,449	9,450	9,667	9,548	9,666	9,787	9,609	7,582	8,718	8,695	
	Heart Failure (I50)				7,245	6,992	7,058	7,268	7,056	6,965	6,946	7,430	7,627	7,677	7,703	8,138	7,204	7,760	8,016	
	Stroke (I60-I69)				11,536	11,650	11,327	11,357	11,369	11,251	11,607	11,806	11,859	11,845	12,048	12,068	11,535	12,367	12,564	
	Other cardiovascular disease (I00-99 only; not listed above)				37,849	37,659	36,599	36,603	37,019	37,644	37,027	37,802	30,585	30,191	29,554	28,996	23,543	27,039	27,527	
Wales	Heart and circulatory diseases (CVD) (I00-I99)	54,249	54,906	55,272	56,997	56,032	55,059	53,577	52,671	53,665	52,852	53,087	49,424	46,917	49,390	48,579	40,146	46,954	43,178	
	Coronary heart disease (I20-I25)	17,428	17,990	17,945	17,913	16,811	16,325	15,601	14,961	14,646	13,969	14,338	13,873	13,262	13,752	13,727	11,359	12,627	10,877	
	Myocardial infarction (I21-I22)	5,328	5,243	5,088	5,248	4,572	4,256	4,110	4,537	4,745	4,623	5,325	5,230	5,249	4,980	5,055	4,831	5,614	4,694	
	Atrial fibrillation (I48)	4,969	4,880	5,019	4,919	5,097	5,389	5,418	5,505	5,691	5,577	5,642	5,884	5,450	5,820	5,195	4,026	4,839	4,646	
	Heart Failure (I50)	5,022	4,576	4,645	4,711	4,390	4,685	4,447	4,609	4,494	4,564	4,443	4,634	4,387	4,535	4,686	3,922	4,864	4,391	
	Stroke (I60-I69)	7,305	6,912	6,908	7,509	7,089	7,284	7,239	7,182	7,531	7,492	7,548	7,484	7,167	7,404	7,417	7,080	7,497	6,746	
	Other cardiovascular disease (I00-99 only; not listed above)	19,525	20,548	20,755	21,945	22,645	21,376	20,872	20,414	21,303	21,250	21,116	17,549	16,651	17,879	17,554	13,759	17,127	16,518	
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)							39,000	35,700	36,800	35,800	34,700	32,800	32,100	33,000	32,505	22,610	26,358	27,213	
	Coronary heart disease (I20-I25)							12,300	12,700	13,700	13,000	12,700	12,100	11,600	12,000	11,232	8,016	9,266	9,317	
	Myocardial infarction (I21-I22)							2,600	3,600	4,100	4,100	4,300	4,500	4,400	4,200	4,330	3,327	3,887	3,828	
	Atrial fibrillation (I48)							4,000	3,900	3,800	3,800	4,300	4,100	3,900	3,800	3,808	2,446	2,802	3,101	
	Heart Failure (I50)							2,400	2,700	2,800	2,800	2,800	2,900	3,000	3,200	3,585	2,738	2,952	2,961	
	Stroke (I60-I69)							2,200	2,000	2,200	1,660	1,450	1,400	1,420	1,310	1,234	1,147	1,261	1,257	
	Other cardiovascular disease (I00-99 only; not listed above)							18,100	14,400	14,300	14,540	13,450	12,300	12,180	12,690	12,646	8,263	10,077	10,577	
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)							1,126,145	1,109,777	1,126,470	1,140,665	1,173,042	1,084,558	1,088,217	1,113,349	1,127,966	940,534	1,087,960	1,071,600	
	Coronary heart disease (I20-I25)							335,851	330,552	328,162	320,939	318,154	317,115	312,763	311,519	304,809	245,604	273,996	260,074	
	Myocardial infarction (I21-I22)							82,185	95,606	98,114	97,695	99,857	101,002	101,845	100,963	102,837	94,428	104,592	98,698	
	Atrial fibrillation (I48)							114,787	116,766	119,556	121,029	127,122	128,624	128,580	134,707	136,220	110,063	130,261	126,055	
	Heart Failure (I50)							74,534	76,743	78,459	84,453	91,667	95,764	99,840	101,938	110,555	95,630	114,460	112,027	
	Stroke (I60-I69)							127,312	127,963	127,513	128,038	129,744	128,571	129,556	131,862	135,710	128,720	136,866	136,641	
	Other cardiovascular disease (I00-99 only; not listed above)							473,661	457,753	472,780	486,206	506,355	414,484	417,478	433,323	440,704	360,517	432,377	436,803	

Notes: Pregnancy cases not included. ICD-10 codes in parentheses. Recent Welsh data are subject to revision. Sex (gender) not recorded for a small number of admissions (England only) so figures here are higher than male and female combined

Citation: BHF (2024) Analysis of UK hospital data

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Public Health Scotland (2024). Personal correspondence.

Digital Health and Care Wales (2024). Personal correspondence and PEDW archive

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

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

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

Table 2.2b All inpatient admissions by main diagnosis in NHS hospitals in men, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2022/23

[Back to Table of Contents](#)

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MALE ONLY		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
England	Heart and circulatory diseases (CVD) (I00-I99)			511,764	523,983	527,642	533,919	541,347	537,238	544,696	552,169	571,702	535,797	541,917	544,900	553,477	460,200	536,400	531,700
	Coronary heart disease (I20-I25)			202,280	199,223	190,610	186,653	187,500	186,072	185,057	182,029	180,959	180,900	179,630	174,600	171,391	137,500	155,030	148,200
	<i>Myocardial infarction (I21-I22)</i>			49,467	47,414	44,858	39,442	40,682	49,433	51,347	51,398	52,530	53,484	54,367	52,800	54,114	50,200	56,300	53,250
	Atrial fibrillation (I48)			47,895	49,597	51,582	53,425	54,258	55,605	56,502	57,671	61,458	62,380	62,583	63,200	64,437	50,700	61,670	60,600
	Heart Failure (I50)			30,253	29,935	30,525	30,885	32,048	33,015	34,196	37,632	41,603	43,808	46,679	46,700	50,426	44,000	52,650	52,000
	Stroke (I60-I69)			45,374	47,147	49,793	51,973	53,191	53,905	53,485	54,384	55,875	55,472	56,294	57,000	59,116	57,000	60,360	60,600
	Other cardiovascular disease (I00-99 only; not listed above)			185,962	198,081	205,132	210,983	214,350	208,641	215,456	220,453	231,807	193,237	196,731	203,400	210,487	171,000	206,690	212,000
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				51,133	49,884	50,254	50,482	50,332	50,212	49,890	50,487	47,651	47,249	47,567	47,517	40,144	44,793	44,994
	Coronary heart disease (I20-I25)				18,017	16,915	17,374	17,327	16,797	16,474	16,078	15,579	15,989	15,745	16,122	15,980	13,694	14,756	14,429
	<i>Myocardial infarction (I21-I22)</i>				5,936	6,175	6,762	7,097	7,021	6,856	6,744	6,593	6,782	6,668	6,723	6,876	6,526	6,902	6,659
	Atrial fibrillation (I48)				4,698	4,682	4,899	4,961	4,998	4,965	4,984	5,090	5,045	5,153	5,242	5,234	3,961	4,715	4,740
	Heart Failure (I50)				3,839	3,668	3,758	3,806	3,759	3,745	3,757	4,031	4,092	4,124	4,051	4,404	3,820	4,098	4,248
	Stroke (I60-I69)				5,556	5,637	5,453	5,514	5,612	5,495	5,725	5,893	6,008	5,870	6,143	6,191	6,000	6,434	6,482
	Other cardiovascular disease (I00-99 only; not listed above)				19,023	18,982	18,770	18,874	19,166	19,533	19,346	19,894	16,517	16,357	16,009	15,708	12,669	14,790	15,095
Wales	Heart and circulatory diseases (CVD) (I00-I99)	29,514	30,090	30,362	31,302	30,880	30,541	29,897	29,697	30,096	29,724	29,678	28,471	26,695	28,594	28,107	23,072	27,387	24,968
	Coronary heart disease (I20-I25)	10,910	11,320	11,432	11,515	10,901	10,648	10,158	9,759	9,604	9,244	9,316	9,145	8,720	9,204	9,134	7,594	8,474	7,371
	<i>Myocardial infarction (I21-I22)</i>	3,218	3,194	3,100	3,248	2,861	2,641	2,554	2,844	3,041	3,014	3,431	3,368	3,413	3,276	3,365	3,158	3,746	3,134
	Atrial fibrillation (I48)	2,570	2,505	2,635	2,585	2,684	2,861	2,915	2,995	3,103	3,063	3,025	3,283	2,973	3,294	2,978	2,153	2,734	2,766
	Heart Failure (I50)	2,586	2,306	2,277	2,432	2,269	2,419	2,357	2,493	2,360	2,402	2,298	2,502	2,317	2,455	2,497	2,084	2,644	2,315
	Stroke (I60-I69)	3,386	3,384	3,244	3,478	3,416	3,568	3,430	3,425	3,742	3,629	3,672	3,809	3,621	3,773	3,783	3,614	3,885	3,566
	Other cardiovascular disease (I00-99 only; not listed above)	10,062	10,575	10,774	11,292	11,610	11,045	11,037	11,025	11,287	11,386	11,367	9,732	9,064	9,868	8,762	7,627	9,650	8,950
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)							22,200	20,100	21,300	20,700	20,200	19,100	18,700	19,300	19,373	13,440	16,170	16,500
	Coronary heart disease (I20-I25)							8,300	8,600	9,500	9,000	8,800	8,300	8,100	8,400	8,040	5,700	6,670	6,700
	<i>Myocardial infarction (I21-I22)</i>							1,600	2,300	2,700	2,700	2,800	3,000	3,000	2,900	2,975	2,300	2,490	2,700
	Atrial fibrillation (I48)							2,300	2,100	2,100	2,200	2,400	2,300	2,200	2,100	2,200	1,400	1,610	1,900
	Heart Failure (I50)							1,100	1,300	1,400	1,400	1,400	1,400	1,500	1,600	1,866	1,400	1,570	1,500
	Stroke (I60-I69)							1,100	1,000	1,100	830	740	660	680	630	611	540	650	600
	Other cardiovascular disease (I00-99 only; not listed above)							9,400	7,100	7,200	7,270	6,860	6,440	6,220	6,570	6,856	4,400	5,670	6,000
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)							643,926	637,367	646,304	652,483	672,067	631,019	634,561	640,361	648,474	536,856	624,750	618,162
	Coronary heart disease (I20-I25)							223,285	221,228	220,635	216,351	214,654	214,334	212,195	208,326	204,545	164,488	184,930	176,700
	<i>Myocardial infarction (I21-I22)</i>							51,933	61,598	63,944	63,856	65,354	66,634	67,448	65,699	67,330	62,184	69,438	65,743
	Atrial fibrillation (I48)							64,434	65,698	66,670	67,918	71,973	73,008	72,909	73,836	74,849	58,214	70,729	70,006
	Heart Failure (I50)							39,311	40,567	41,701	45,191	49,332	51,802	54,620	54,806	59,194	51,304	60,962	60,063
	Stroke (I60-I69)							63,235	63,942	63,822	64,568	66,180	65,949	66,465	67,546	69,701	67,154	71,329	71,248
	Other cardiovascular disease (I00-99 only; not listed above)							253,661	245,932	253,476	258,455	269,928	225,926	228,372	235,847	241,813	195,696	236,800	242,045

Notes: Pregnancy cases not included. ICD-10 codes in parentheses. Recent Welsh data are subject to revision.

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

Citation: BHF (2024) Analysis of UK hospital data

Source: England - NHS England (2023). Hospital Statistics to 2022/23 [accessed Feb 2024]

Public Health Scotland (2024). Personal correspondence.

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NI Department of Health (2023). Hospital Statistics to 2022/23 [accessed Feb 2024]

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

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

Table 2.2c Inpatient admissions by main diagnosis in NHS hospitals in women, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2022/23

[Back to Table of Contents](#)

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FEMALE ONLY		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
England	Heart and circulatory diseases (CVD) (I00-I99)			386,079	393,334	397,365	402,088	400,533	393,403	400,057	409,960	422,748	382,501	383,659	402,300	410,306	347,000	400,100	390,800
	Coronary heart disease (I20-I25)			103,708	100,941	94,816	93,270	93,294	90,690	88,816	87,087	86,057	85,825	84,026	86,500	84,171	67,900	74,850	69,900
	<i>Myocardial infarction (I21-I22)</i>			27,588	26,816	25,061	22,826	23,406	26,812	26,827	26,880	27,265	27,137	27,270	28,400	28,713	26,000	28,300	26,800
	Atrial fibrillation (I48)			37,715	38,872	40,200	41,025	41,807	42,564	44,114	44,531	46,055	46,712	46,981	52,100	53,172	45,300	52,220	48,600
	Heart Failure (I50)			28,329	27,981	27,988	28,336	28,371	29,363	30,004	32,511	35,391	36,795	38,097	39,800	43,720	38,000	46,230	44,600
	Stroke (I60-I69)			47,762	48,694	51,526	52,502	53,325	53,507	53,046	52,895	53,065	52,356	52,830	54,100	55,875	52,000	55,370	55,500
	Other cardiovascular disease (I00-99 only; not listed above)			168,565	176,846	182,835	186,955	183,736	177,279	184,077	192,936	202,180	160,813	161,725	169,800	171,020	143,800	171,430	170,000
Scotland	Heart and circulatory diseases (CVD) (I00-I99)			42,963	41,830	41,264	41,206	40,433	41,040	39,994	40,318	36,385	36,375	36,192	35,582	30,560	33,299	33,594	
	Coronary heart disease (I20-I25)			10,628	9,774	9,957	9,829	9,332	9,469	8,776	8,521	8,428	8,500	8,545	8,308	7,146	7,452	7,357	
	<i>Myocardial infarction (I21-I22)</i>			3,604	3,752	4,218	4,290	4,203	4,239	3,950	3,844	3,869	3,891	3,860	3,749	3,594	3,563	3,470	
	Atrial fibrillation (I48)			4,123	4,042	4,304	4,343	4,194	4,484	4,466	4,577	4,503	4,513	4,545	4,375	3,621	4,003	3,955	
	Heart Failure (I50)			3,406	3,324	3,300	3,462	3,297	3,220	3,189	3,399	3,535	3,553	3,652	3,734	3,384	3,662	3,768	
	Stroke (I60-I69)			5,980	6,013	5,874	5,843	5,757	5,756	5,882	5,913	5,851	5,975	5,905	5,877	5,535	5,933	6,082	
	Other cardiovascular disease (I00-99 only; not listed above)			18,826	18,677	17,829	17,729	17,853	18,111	17,681	17,908	14,068	13,834	13,545	13,288	10,874	12,249	12,432	
Wales	Heart and circulatory diseases (CVD) (I00-I99)	24,735	24,816	24,910	25,695	25,152	24,518	23,680	22,974	23,569	23,128	23,409	20,953	20,222	20,796	20,472	17,074	19,567	18,210
	Coronary heart disease (I20-I25)	6,518	6,670	6,513	6,398	5,910	5,677	5,443	5,202	5,042	4,725	5,022	4,728	4,542	4,548	4,593	3,765	4,153	3,506
	<i>Myocardial infarction (I21-I22)</i>	2,110	2,049	1,988	2,000	1,711	1,615	1,556	1,693	1,704	1,609	1,894	1,862	1,836	1,704	1,690	1,673	1,868	1,560
	Atrial fibrillation (I48)	2,399	2,375	2,384	2,334	2,413	2,528	2,503	2,510	2,588	2,514	2,617	2,601	2,477	2,526	2,217	1,873	2,105	1,880
	Heart Failure (I50)	2,436	2,270	2,368	2,279	2,121	2,266	2,090	2,116	2,134	2,162	2,145	2,132	2,070	2,080	2,189	1,838	2,220	2,076
	Stroke (I60-I69)	3,919	3,528	3,664	4,031	3,673	3,716	3,809	3,757	3,789	3,863	3,876	3,675	3,546	3,631	3,634	3,466	3,612	3,180
	Other cardiovascular disease (I00-99 only; not listed above)	9,463	9,973	9,981	10,653	11,035	10,331	9,835	9,389	10,016	9,864	9,749	7,817	7,587	8,011	7,839	6,132	7,477	7,568
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)							16,800	15,600	15,500	15,100	14,500	13,700	13,400	13,700	13,132	9,200	10,180	10,700
	Coronary heart disease (I20-I25)							4,000	4,100	4,200	4,000	3,900	3,800	3,500	3,600	3,192	2,300	2,590	2,600
	<i>Myocardial infarction (I21-I22)</i>							1,000	1,300	1,400	1,400	1,500	1,500	1,400	1,300	1,355	1,000	1,390	1,100
	Atrial fibrillation (I48)							1,700	1,800	1,700	1,600	1,900	1,800	1,700	1,700	1,608	1,100	1,190	1,300
	Heart Failure (I50)							1,300	1,400	1,400	1,400	1,400	1,500	1,500	1,600	1,719	1,300	1,380	1,500
	Stroke (I60-I69)							1,100	1,000	1,100	830	710	740	740	680	623	600	610	600
	Other cardiovascular disease (I00-99 only; not listed above)							8,700	7,300	7,100	7,270	6,590	5,860	5,960	6,120	5,790	3,900	4,410	4,500
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)							482,219	472,410	480,166	488,182	500,975	453,539	453,656	472,988	479,492	403,834	463,146	453,304
	Coronary heart disease (I20-I25)							112,566	109,324	107,527	104,588	103,500	102,781	100,568	103,193	100,265	81,111	89,045	83,363
	<i>Myocardial infarction (I21-I22)</i>							30,252	34,008	34,170	33,839	34,503	34,368	34,397	35,264	35,506	32,267	35,121	32,930
	Atrial fibrillation (I48)							50,353	51,068	52,886	53,111	55,149	55,616	55,671	60,871	61,371	51,894	59,518	55,735
	Heart Failure (I50)							35,223	36,176	36,758	39,262	42,335	43,962	45,220	47,132	51,362	44,522	53,492	51,944
	Stroke (I60-I69)							64,077	64,021	63,691	63,470	63,564	62,622	63,091	64,316	66,009	61,601	65,525	65,362
	Other cardiovascular disease (I00-99 only; not listed above)							220,000	211,821	219,304	227,751	236,427	188,558	189,106	197,476	197,938	164,706	195,566	194,500

Notes: Pregnancy cases not included. ICD-10 codes in parentheses. Recent Welsh data are subject to revision.

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

Citation: BHF (2024) Analysis of UK hospital data

England - NHS England (2023). Hospital Statistics to 2022/23 [accessed Feb 2024]

Public Health Scotland (2024). Personal correspondence.

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

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

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

Table 2.3 Inpatient episodes by main diagnosis in National Health Service hospitals by sex, England, Scotland, Wales, Northern Ireland and United Kingdom 2022/23

[Back to Table of Contents](#)

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	England		Scotland		Wales		Northern Ireland		United Kingdom		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
All diagnoses	9,058,809	10,950,704	748,641	809,558	387,421	466,002	310,122	294,463	10,504,993	12,520,727	23,044,478
All heart and circulatory diseases (C38.0, F01, G45, I00-I99, P29, Q20-Q28)	899,169	667,707	94,781	71,768	37,319	28,472	26,513	17,401	1,057,782	785,348	1,843,405
Diseases of the circulatory system (I00-I99)	869,084	638,795	91,770	68,941	36,316	27,492	25,996	16,928	1,023,166	752,156	1,775,479
Coronary heart disease (I20-I25)	236,758	111,591	29,985	15,069	10,789	5,280	9,400	3,628	286,932	135,568	422,531
<i>Angina pectoris (I20)</i>	35,705	21,443	3,374	1,972	1,022	629	1,175	501	41,276	24,545	65,823
<i>Myocardial infarction (I21-I22)</i>	108,414	54,533	15,655	8,414	5,325	2,699	4,458	1,760	133,852	67,406	201,280
Stroke (I60-I69)	122,737	112,311	16,139	15,435	5,510	5,192	1,151	1,105	145,537	134,043	279,617
Atrial fibrillation (I48)	85,203	67,921	7,023	6,368	3,496	2,628	2,656	1,795	98,378	78,712	177,103
Heart failure (I50)	114,144	98,099	9,905	9,393	4,218	3,929	3,446	3,389	131,713	114,810	246,539
Other cardiovascular disease (I00-99 only; not listed above)	310,242	248,873	28,718	22,676	12,303	10,463	9,343	7,011	360,606	289,023	649,689
Malignant neoplasm: Heart (C38.0)	120	54	*	*	*	4	*	*	120	58	178
Vascular dementia (F01)	2,857	3,070	327	277	295	251	58	47	3,537	3,645	7,183
Transient cerebral ischaemic attacks and related syndromes (G45)	11,734	12,057	1,765	1,711	513	593	90	143	14,102	14,504	28,606
Cardiovascular disorders originating in the perinatal period (P29)	2,265	1,926	*	*	48	23	57	53	2,370	2,002	4,458
Congenital malformations of the circulatory system (Q20-Q28)	13,109	11,805	919	839	147	109	312	230	14,487	12,983	27,501

Notes: Finished consultant episodes (FCE); admissions and day cases combined. Pregnancy cases excluded. Sex (gender) not recorded for some English FCEs (275 for all CVDs).

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.

Wales data subject to revision.

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

Citation: BHF (2024) Analysis of UK hospital data

Source: England - NHS England (2023). Hospital Episode Statistics 2022/23 [accessed Feb 2024]

<https://digital.nhs.uk/data-and-information/publications/statistical/hospital-admitted-patient-care-activity/2022-23>

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Table 2.4a All inpatient episodes by main diagnosis in NHS hospitals, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2022/23

[Back to Table of Contents](#)

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ALL EPISODES (FCEs)		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
England	Heart and circulatory diseases (CVD) (I00-I99)	1,244,004	1,255,590	1,274,674	1,322,295	1,358,247	1,371,809	1,381,635	1,374,094	1,401,232	1,423,319	1,480,320	1,418,802	1,448,856	1,500,788	1,534,214	1,321,489	1,533,547	1,508,036
	Coronary heart disease (I20-I25)	428,262	427,913	424,247	422,334	407,675	405,096	409,508	404,089	401,007	393,531	393,887	396,316	397,626	400,384	393,933	322,111	367,562	348,380
	Myocardial infarction (I21-I22)	135,705	137,163	134,066	132,787	129,346	120,892	123,786	143,532	148,259	148,460	154,857	159,085	163,090	164,570	166,474	147,063	170,385	162,969
	Atrial fibrillation (I48)	107,014	109,646	115,069	120,200	126,235	130,218	132,516	135,200	138,288	139,857	146,676	148,842	149,790	161,443	164,226	139,173	162,371	153,137
	Heart Failure (I50)	106,500	100,452	104,379	106,808	112,976	117,034	121,242	127,064	133,648	146,147	160,834	169,754	180,655	188,682	205,378	177,242	216,050	212,259
	Stroke (I60-I69)	178,321	176,452	179,999	190,101	203,705	198,335	194,436	196,081	197,356	197,793	203,582	205,680	210,932	214,872	220,843	209,675	228,264	235,085
	Other cardiovascular disease (I00-99 only; not listed above)	423,907	441,127	450,980	482,852	507,656	521,126	523,933	511,660	530,933	545,991	575,341	498,210	509,853	535,407	549,834	473,288	559,300	559,175
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				147,639	146,240	150,067	150,110	150,995	159,078	160,765	169,385	165,918	164,966	167,186	170,271	148,282	160,934	160,711
	Coronary heart disease (I20-I25)				50,005	48,521	50,566	49,813	48,328	50,169	49,086	49,434	50,848	50,000	51,889	51,476	43,724	46,680	45,054
	Myocardial infarction (I21-I22)				19,496	21,290	24,386	25,275	25,213	26,661	25,868	26,462	26,927	25,808	26,988	27,021	24,551	25,741	24,069
	Atrial fibrillation (I48)				11,428	11,411	12,328	12,328	12,638	13,696	13,989	14,863	15,230	15,034	15,258	14,957	11,980	13,515	13,391
	Heart Failure (I50)				11,552	11,259	11,786	12,191	12,154	13,113	13,812	16,127	16,908	17,259	17,635	19,658	17,345	19,300	19,298
	Stroke (I60-I69)				22,189	22,686	22,885	22,950	24,136	25,453	27,278	28,379	29,410	29,447	29,268	29,268	29,308	30,596	31,574
	Other cardiovascular disease (I00-99 only; not listed above)				52,465	52,363	52,502	52,828	53,739	56,647	56,600	60,582	53,522	53,226	53,136	54,912	45,925	50,843	51,394
Wales	Heart and circulatory diseases (CVD) (I00-I99)	80,376	81,064	82,372	84,850	88,015	87,329	88,026	87,336	88,470	84,580	85,589	79,167	77,493	81,886	75,052	63,841	70,892	63,808
	Coronary heart disease (I20-I25)	27,359	27,455	27,620	27,451	27,040	26,341	27,287	26,326	25,729	23,312	23,444	22,399	22,161	22,757	20,724	17,951	18,806	16,069
	Myocardial infarction (I21-I22)	9,089	8,953	8,946	8,869	8,640	7,970	7,709	9,031	9,731	8,688	9,960	9,844	10,053	9,648	9,135	8,990	9,676	8,024
	Atrial fibrillation (I48)	7,068	7,082	7,287	7,139	8,009	8,302	8,056	8,557	8,595	8,300	8,683	8,652	8,246	8,931	7,414	5,941	6,591	6,124
	Heart Failure (I50)	7,892	7,508	7,978	8,018	8,499	8,965	8,354	9,405	9,070	9,054	9,306	9,430	9,133	9,557	9,517	7,652	9,085	8,147
	Stroke (I60-I69)	12,132	11,873	11,919	13,020	13,247	12,913	12,338	13,012	13,323	12,589	12,454	11,648	11,501	12,096	11,456	11,438	11,921	10,702
	Other cardiovascular disease (I00-99 only; not listed above)	25,925	27,146	27,568	29,222	31,220	30,808	31,991	30,036	31,753	31,325	31,702	27,038	26,452	28,545	25,941	20,859	24,489	22,766
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)						42,887	46,617	42,875	44,296	44,592	44,488	42,515	43,016	46,207	46,189	35,999	40,864	42,924
	Coronary heart disease (I20-I25)						14,409	14,060	14,520	15,378	15,014	14,963	14,262	14,158	15,262	14,704	11,240	12,458	13,028
	Myocardial infarction (I21-I22)							3,540	4,614	5,288	5,369	5,776	5,985	6,081	6,243	6,636	5,461	5,893	6,218
	Atrial fibrillation (I48)							4,490	4,518	4,410	4,478	5,205	4,859	4,824	4,982	5,052	3,586	3,933	4,451
	Heart Failure (I50)							3,660	4,131	4,360	4,731	5,011	4,990	5,427	6,093	6,758	6,077	6,391	6,835
	Stroke (I60-I69)						4,872	3,199	2,943	3,383	2,486	2,202	2,208	2,313	2,219	2,094	1,962	2,237	2,256
	Other cardiovascular disease (I00-99 only; not listed above)							21,208	16,763	16,765	17,883	17,107	16,196	16,294	17,651	17,581	13,134	15,845	16,354
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)						1,652,092	1,666,388	1,655,300	1,693,076	1,713,256	1,779,782	1,706,402	1,734,331	1,796,067	1,825,726	1,569,611	1,806,237	1,775,479
	Coronary heart disease (I20-I25)						496,412	500,668	493,263	492,283	480,943	481,728	483,825	483,945	490,292	480,837	395,026	445,506	422,531
	Myocardial infarction (I21-I22)						160,310	182,390	189,939	188,385	197,055	201,841	205,032	207,449	209,266	186,065	211,695	201,280	
	Atrial fibrillation (I48)						157,390	160,913	164,989	166,624	175,427	177,583	177,894	190,614	191,649	160,680	186,410	177,103	
	Heart Failure (I50)						145,447	152,754	160,191	173,744	191,278	201,082	212,474	221,967	241,311	208,316	250,826	246,539	
	Stroke (I60-I69)						239,005	232,923	236,172	239,515	240,146	246,617	248,946	254,193	258,455	263,661	252,383	273,018	279,617
	Other cardiovascular disease (I00-99 only; not listed above)						629,960	612,198	636,098	651,799	684,732	594,966	605,825	634,739	648,268	553,206	650,477	649,689	

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

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

Welsh data are subject to revision (the latest and previous year).

Citation: BHF (2024) Analysis of UK hospital data

Source: England - NHS England (2023). Hospital Statistics to 2022/23 [accessed Feb 2024]

Public Health Scotland (2024). Personal correspondence.

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

Table 2.4b Inpatient episodes by main diagnosis in NHS hospitals in men, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2022/23

[Back to Table of Contents](#)

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MALE ONLY		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
England	Heart and circulatory diseases (CVD) (I00-I99)	694,974	705,822	715,200	741,384	759,672	767,889	779,921	777,888	793,952	804,412	838,567	811,101	831,328	863,302	881,061	748,623	878,393	869,084
	Coronary heart disease (I20-I25)	274,816	276,900	275,069	274,163	265,667	263,538	266,954	265,102	264,934	260,052	261,024	263,513	265,359	267,694	264,188	213,389	247,860	236,758
	Myocardial infarction (I21-I22)	83,953	85,707	83,648	82,027	79,963	73,861	75,600	89,924	94,323	94,566	99,026	102,729	105,637	107,026	108,764	96,325	113,376	108,414
	Atrial fibrillation (I48)	57,171	58,480	61,752	64,599	67,781	70,110	71,568	73,125	74,366	75,363	80,307	81,214	81,883	88,194	89,978	72,931	87,912	85,203
	Heart Failure (I50)	54,072	51,541	53,328	54,503	57,987	60,223	63,377	66,354	70,320	77,031	85,247	90,111	97,528	101,827	110,004	94,870	115,040	114,144
	Stroke (I60-I69)	85,041	84,271	86,372	91,363	97,878	96,364	95,294	96,502	97,593	98,597	102,188	103,758	106,514	110,259	113,534	109,633	119,037	122,737
	Other cardiovascular disease (I00-99 only; not listed above)	223,874	234,630	238,679	256,756	270,359	277,654	282,728	276,805	286,739	293,369	309,801	272,505	280,044	295,328	303,357	257,800	308,544	310,242
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				82,266	81,442	83,985	83,946	85,126	88,575	90,271	95,117	94,095	93,102	95,113	97,301	83,988	91,864	91,770
	Coronary heart disease (I20-I25)				32,230	31,287	32,635	32,132	31,645	32,108	32,174	31,870	33,207	32,505	34,108	34,176	28,692	31,024	29,985
	Myocardial infarction (I21-I22)				12,313	13,353	15,115	15,743	16,008	16,558	16,397	16,490	16,933	16,109	17,129	17,404	15,741	16,778	15,655
	Atrial fibrillation (I48)				5,960	5,922	6,349	6,364	6,653	6,950	7,053	7,544	7,682	7,625	7,672	7,766	6,068	6,962	7,023
	Heart Failure (I50)				6,161	5,838	6,198	6,414	6,419	6,978	7,378	8,659	9,000	9,172	9,179	10,419	9,022	9,908	9,905
	Stroke (I60-I69)				10,738	11,044	11,063	11,057	11,802	12,321	13,364	14,090	14,705	14,395	14,860	15,408	15,049	15,896	16,139
	Other cardiovascular disease (I00-99 only; not listed above)				27,177	27,351	27,740	27,979	28,607	30,218	30,302	32,954	29,501	29,405	29,294	29,532	25,157	28,074	28,718
Wales	Heart and circulatory diseases (CVD) (I00-I99)	44,120	44,579	45,358	46,968	48,335	48,180	48,765	49,222	49,888	47,606	47,867	45,283	43,930	47,214	43,070	36,351	40,980	36,316
	Coronary heart disease (I20-I25)	17,171	17,284	17,582	17,683	17,524	17,037	17,529	17,112	16,866	15,458	15,128	14,620	14,541	15,118	13,768	11,865	12,582	10,789
	Myocardial infarction (I21-I22)	5,396	5,352	5,352	5,401	5,354	4,867	4,617	5,606	6,194	5,619	6,338	6,255	6,482	6,301	6,075	5,874	6,480	5,325
	Atrial fibrillation (I48)	3,610	3,605	3,739	3,748	4,034	4,232	4,185	4,524	4,559	4,440	4,594	4,689	4,312	4,879	4,049	3,074	3,584	3,496
	Heart Failure (I50)	4,057	3,774	3,927	4,199	4,351	4,606	4,395	5,103	4,758	4,758	4,875	5,176	4,819	5,219	5,033	4,060	4,935	4,218
	Stroke (I60-I69)	5,724	5,793	5,625	6,088	6,184	6,045	5,389	6,134	6,617	6,009	5,961	5,960	5,834	6,136	5,819	5,807	6,148	5,510
	Other cardiovascular disease (I00-99 only; not listed above)	13,558	14,123	14,485	15,250	16,242	16,260	17,267	16,349	16,973	16,941	17,309	14,838	14,424	15,862	14,401	11,545	13,731	12,303
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)						24,499	26,591	24,154	25,674	25,773	25,922	24,750	25,032	26,992	27,529	21,294	24,697	25,996
	Coronary heart disease (I20-I25)						9,800	9,521	9,846	10,697	10,418	10,386	9,798	9,863	10,669	10,525	7,987	8,972	9,400
	Myocardial infarction (I21-I22)							2,186	2,962	3,461	3,518	3,784	3,938	4,082	4,327	4,554	3,781	3,887	4,458
	Atrial fibrillation (I48)							2,605	2,410	2,458	2,559	2,876	2,777	2,702	2,764	2,919	1,988	2,267	2,656
	Heart Failure (I50)							1,702	1,977	2,175	2,382	2,522	2,397	2,725	3,022	3,518	3,191	3,400	3,446
	Stroke (I60-I69)						2,485	1,628	1,437	1,742	1,242	1,126	1,039	1,108	1,071	1,036	931	1,147	1,151
	Other cardiovascular disease (I00-99 only; not listed above)							11,135	8,484	8,602	9,172	9,012	8,739	8,634	9,466	9,531	7,197	8,911	9,343
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)						924,553	939,223	936,390	958,089	968,062	1,007,473	975,229	993,392	1,032,621	1,048,961	890,256	1,035,934	1,023,166
	Coronary heart disease (I20-I25)						323,010	326,136	323,705	324,605	318,102	318,408	321,138	322,268	327,589	322,657	261,933	300,438	286,932
	Myocardial infarction (I21-I22)							98,146	114,500	120,536	120,100	125,638	129,855	132,310	134,783	136,797	121,721	140,521	133,852
	Atrial fibrillation (I48)							84,722	86,712	88,333	89,415	95,321	96,362	96,522	103,509	104,712	84,061	100,725	98,378
	Heart Failure (I50)							75,888	79,853	84,346	91,549	101,303	106,684	114,244	119,247	128,974	111,143	133,283	131,713
	Stroke (I60-I69)						115,957	113,368	115,875	118,273	119,212	123,365	125,462	127,851	132,326	135,797	131,420	142,228	145,537
	Other cardiovascular disease (I00-99 only; not listed above)							339,109	330,245	342,532	349,784	369,076	325,583	332,507	349,950	356,821	301,699	359,260	360,606

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)

Welsh data are subject to revision (the latest and previous year).

Citation: BHF (2024) Analysis of UK hospital data

Source: England - NHS England (2023). Hospital Statistics to 2022/23 [accessed Feb 2024]

Public Health Scotland (2024). Personal correspondence.

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Table 2.4c Inpatient episodes by main diagnosis in NHS hospitals in women, England, Scotland, Wales, Northern Ireland and United Kingdom, 2005/06 to 2022/23

[Back to Table of Contents](#)

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FEMALE ONLY		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
England	Heart and circulatory diseases (CVD) (I00-I99)	549,030	549,768	559,474	580,911	598,575	603,920	601,714	596,206	607,280	618,907	641,753	607,701	617,528	637,486	653,153	564,155	655,027	638,795
	Coronary heart disease (I20-I25)	153,446	151,013	149,178	148,171	142,008	141,558	142,554	138,987	136,073	133,479	132,863	132,803	132,267	132,690	129,745	105,302	119,678	111,591
	<i>Myocardial infarction (I21-I22)</i>	51,752	51,456	50,418	50,760	49,383	47,031	48,186	53,608	53,936	53,894	55,831	56,356	57,453	57,544	57,710	49,885	56,997	54,533
	Atrial fibrillation (I48)	49,843	51,166	53,317	55,601	58,454	60,108	60,948	62,075	63,922	64,494	66,369	67,628	67,907	73,249	74,248	65,227	74,439	67,921
	Heart Failure (I50)	52,428	48,911	51,051	52,305	54,989	56,811	57,865	60,710	63,328	69,116	75,587	79,643	83,127	86,855	95,374	81,912	101,003	98,099
	Stroke (I60-I69)	93,280	92,181	93,627	98,738	105,827	101,971	99,142	99,579	99,763	99,196	101,394	101,922	104,418	104,613	107,309	100,000	109,208	112,311
	Other cardiovascular disease (I00-99 only; not listed above)	200,033	206,497	212,301	226,096	237,297	243,472	241,205	234,855	244,194	252,622	265,540	225,705	229,809	240,079	246,477	211,714	250,699	248,873
Scotland	Heart and circulatory diseases (CVD) (I00-I99)				65,373	64,798	66,082	66,164	65,869	70,503	70,494	74,268	71,823	71,864	72,073	72,970	64,294	69,070	68,941
	Coronary heart disease (I20-I25)				17,775	17,234	17,931	17,681	16,683	18,061	16,912	17,564	17,641	17,495	17,781	17,300	15,032	15,656	15,069
	<i>Myocardial infarction (I21-I22)</i>				7,183	7,937	9,271	9,532	9,205	10,103	9,471	9,972	9,994	9,699	9,859	9,617	8,810	8,963	8,414
	Atrial fibrillation (I48)				5,468	5,489	5,979	5,964	5,985	6,746	6,936	7,319	7,548	7,409	7,586	7,191	5,912	6,553	6,368
	Heart Failure (I50)				5,391	5,421	5,588	5,777	5,735	6,135	6,434	7,468	7,908	8,087	8,456	9,239	8,323	9,392	9,393
	Stroke (I60-I69)				11,451	11,642	11,822	11,893	12,334	13,132	13,914	14,289	14,705	15,052	14,408	15,210	14,259	14,700	15,435
	Other cardiovascular disease (I00-99 only; not listed above)				25,288	25,012	24,762	24,849	25,132	26,429	26,298	27,628	24,021	23,821	23,842	24,030	20,768	22,769	22,676
Wales	Heart and circulatory diseases (CVD) (I00-I99)	36,256	36,485	37,014	37,882	39,680	39,149	39,261	38,114	38,582	36,974	37,722	33,884	33,563	34,672	31,982	27,490	29,912	27,492
	Coronary heart disease (I20-I25)	10,188	10,171	10,038	9,768	9,516	9,304	9,758	9,214	8,863	7,854	8,316	7,779	7,620	7,639	6,956	6,086	6,224	5,280
	<i>Myocardial infarction (I21-I22)</i>	3,693	3,601	3,594	3,468	3,286	3,103	3,092	3,425	3,537	3,069	3,622	3,589	3,571	3,347	3,060	3,116	3,196	2,699
	Atrial fibrillation (I48)	3,458	3,477	3,548	3,391	3,975	4,070	3,871	4,033	4,036	3,860	4,089	3,963	3,934	4,052	3,365	2,867	3,007	2,628
	Heart Failure (I50)	3,835	3,734	4,051	3,819	4,148	4,359	3,959	4,302	4,197	4,296	4,431	4,254	4,314	4,338	4,484	3,592	4,150	3,929
	Stroke (I60-I69)	6,408	6,080	6,294	6,932	7,063	6,868	6,949	6,878	6,706	6,580	6,493	5,688	5,667	5,960	5,637	5,631	5,773	5,192
	Other cardiovascular disease (I00-99 only; not listed above)	12,367	13,023	13,083	13,972	14,978	14,548	14,724	13,687	14,780	14,384	14,393	12,200	12,028	12,683	11,540	9,314	10,758	10,463
Northern Ireland	Heart and circulatory diseases (CVD) (I00-I99)						18,388	20,026	18,721	18,622	18,819	18,566	17,765	17,984	19,215	18,660	14,705	16,167	16,928
	Coronary heart disease (I20-I25)						4,609	4,539	4,674	4,681	4,596	4,577	4,464	4,295	4,593	4,179	3,253	3,486	3,628
	<i>Myocardial infarction (I21-I22)</i>						1,354	1,652	1,827	1,851	1,992	2,047	1,999	1,916	2,082	1,680	2,006	1,760	
	Atrial fibrillation (I48)						1,885	2,108	1,952	1,919	2,329	2,082	2,122	2,218	2,133	1,598	1,666	1,795	
	Heart Failure (I50)						1,958	2,154	2,185	2,349	2,489	2,593	2,702	3,071	3,240	2,886	2,991	3,389	
	Stroke (I60-I69)					2,387	1,571	1,506	1,641	1,244	1,076	1,169	1,205	1,148	1,058	1,031	1,090	1,105	
	Other cardiovascular disease (I00-99 only; not listed above)						10,073	8,279	8,163	8,711	8,095	7,457	7,660	8,185	8,050	5,937	6,934	7,011	
United Kingdom	Heart and circulatory diseases (CVD) (I00-I99)					727,539	727,165	718,910	734,987	745,194	772,309	731,173	740,939	763,446	776,765	670,644	770,176	752,156	
	Coronary heart disease (I20-I25)					173,402	174,532	169,558	167,678	162,841	163,320	162,687	161,677	162,703	158,180	129,673	145,044	135,568	
	<i>Myocardial infarction (I21-I22)</i>						62,164	67,890	69,403	68,285	71,417	71,986	72,722	72,666	72,469	63,491	71,162	67,406	
	Atrial fibrillation (I48)						72,668	74,201	76,656	77,209	80,106	81,221	81,372	87,105	86,937	75,604	85,665	78,712	
	Heart Failure (I50)						69,559	72,901	75,845	82,195	89,975	94,398	98,230	102,720	112,337	96,713	117,536	114,810	
	Stroke (I60-I69)					123,048	119,555	120,297	121,242	120,934	123,252	123,484	126,342	126,129	129,214	120,921	130,771	134,043	
	Other cardiovascular disease (I00-99 only; not listed above)						290,851	281,953	293,566	302,015	315,656	269,383	273,318	284,789	290,097	247,733	291,160	289,023	

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)
Welsh data are subject to revision (the latest and previous year).

Citation: BHF (2024) Analysis of UK hospital data

Source: England - NHS England (2023). Hospital Statistics to 2022/23 [accessed Feb 2024]

Public Health Scotland (2024). Personal correspondence.

Digital Health and Care Wales (2024). Personal correspondence and PEDW archive

NI Department of Health (2023). Hospital Statistics to 2022/23 [accessed Feb 2024]

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

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

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

Table 2.5 Inpatient episodes for cardiovascular diagnoses by sex and age, England 2022/23

[Back to Table of Contents](#)

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	male	female	Mean age	Age 0-4	Age 1-4	Age 5-9	Age 10-14	Age 15-19	Age 20-24	Age 25-29	Age 30-34	Age 35-39	Age 40-44	Age 45-49	Age 50-54	Age 55-59	Age 60-64	Age 65-69	Age 70-74	Age 75-79	Age 80-84	Age 85-89	Age 90+
Heart and circulatory diseases (CVD) (I00-I99)	58%	42%	70	1,173	2,596	3,705	3,783	5,165	7,079	10,290	15,987	24,597	34,381	49,000	78,961	110,463	136,234	150,913	182,965	219,349	193,879	160,291	106,979
% of total				0.1%	0.2%	0.2%	0.3%	0.3%	0.5%	0.7%	1.1%	1.6%	2.3%	3.3%	5.3%	7.4%	9.1%	10.1%	12.2%	14.6%	12.9%	10.7%	7.1%
Coronary heart disease (I20-I25)	68%	32%	68	16	32	12	20	44	131	396	1,123	2,995	6,873	13,153	24,997	36,934	45,595	45,391	48,903	49,881	35,203	22,596	12,241
% of total				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	0.9%	2.0%	3.8%	7.2%	10.7%	13.2%	13.1%	14.1%	14.4%	10.2%	6.5%	3.5%
Myocardial infarction (I21-I22)	67%	33%	69	2	0	0	0	14	40	189	580	1,555	3,463	6,250	11,613	16,539	19,159	19,136	20,504	21,903	18,294	13,941	8,925
% of total				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.4%	1.0%	2.1%	3.9%	7.2%	10.2%	11.8%	11.8%	12.6%	13.5%	11.3%	8.6%	5.5%
Atrial fibrillation (I48)	56%	44%	72	8	4	13	11	79	222	492	831	1,244	2,092	3,517	6,903	11,277	15,124	17,638	21,904	25,915	20,340	15,346	9,521
% of total				0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.3%	0.5%	0.8%	1.4%	2.3%	4.5%	7.4%	9.9%	11.6%	14.4%	17.0%	13.3%	10.1%	6.2%
Heart Failure (I50)	54%	46%	78	110	48	18	25	66	132	198	498	1,060	1,665	2,445	4,730	7,345	10,699	14,760	22,003	32,323	38,865	40,836	32,875
% of total				0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.2%	0.5%	0.8%	1.2%	2.2%	3.5%	5.1%	7.0%	10.4%	15.3%	18.4%	19.4%	15.6%
Stroke (I60-I69)	52%	48%	73	120	223	215	200	280	539	732	1,452	2,840	4,146	6,298	10,243	14,837	18,158	21,296	26,780	35,654	34,800	31,808	22,898
% of total				0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.3%	0.6%	1.2%	1.8%	2.7%	4.4%	6.4%	7.8%	9.1%	11.5%	15.3%	14.9%	13.6%	9.8%

Notes: All data based on finished consultant episodes (FCEs); small volume have no sex (gender) or age recorded [accessed Feb 2024]

Citation: BHF (2024) Analysis of NHSE hospital data

Source: England - NHS England (2023) Hospital Statistics 2022/23

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

Table 2.6 Hospital discharges by cardiovascular conditions by sex and age, Scotland 2013/14 to 2022/23

[Back to Table of Contents](#)

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	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
Myocardial Infarction (I21-I22)	26,370	25,514	26,077	26,523	25,482	26,658	26,923	24,440	25,457	23,669
age 0-44	1,150	996	955	952	954	909	800	827	827	655
age 45-64	8,797	9,015	8,771	8,853	8,914	9,643	9,704	8,792	9,082	8,371
age 65-74	6,727	6,244	6,437	6,814	6,365	6,620	7,049	6,459	6,976	6,425
age 75+	9,696	9,259	9,914	9,904	9,249	9,486	9,370	8,362	8,572	8,218
rate	542.9	513.9	521.1	523.5	493.8	507.5	506.0	454.6	468.5	436.2
male	16,321	16,117	16,182	16,616	15,835	16,884	17,290	15,641	16,563	15,356
age 0-44	846	770	677	726	677	739	586	623	576	492
age 45-64	6,449	6,652	6,354	6,426	6,361	7,191	7,098	6,388	6,682	6,075
age 65-74	4,161	4,083	4,094	4,541	4,151	4,175	4,729	4,279	4,661	4,341
age 75+	4,865	4,612	5,057	4,923	4,646	4,779	4,877	4,351	4,644	4,448
rate	722.5	695.1	694.9	702.8	656.7	684.5	689.7	615.8	644.8	600.2
female	10,049	9,397	9,895	9,907	9,647	9,774	9,633	8,799	8,894	8,313
age 0-44	304	226	278	226	277	170	214	204	251	163
age 45-64	2,348	2,363	2,417	2,427	2,553	2,452	2,606	2,404	2,400	2,296
age 65-74	2,566	2,161	2,343	2,273	2,214	2,445	2,320	2,180	2,315	2,084
age 75+	4,831	4,647	4,857	4,981	4,603	4,707	4,493	4,011	3,928	3,770
rate	363.3	332.8	347.3	344.3	330.9	330.6	322.2	293.3	292.1	272.3
Heart Failure (I50)	13,035	13,763	16,076	16,838	17,187	17,551	19,790	17,346	19,246	19,204
age 0-44	239	201	270	272	279	228	356	322	329	336
age 45-64	1,495	1,667	2,241	2,168	2,135	2,239	2,437	2,564	2,762	2,656
age 65-74	2,721	2,807	3,270	3,419	3,630	3,751	4,002	3,662	4,062	3,775
age 75+	8,580	9,088	10,295	10,979	11,143	11,333	12,995	10,798	12,093	12,437
rate	284.0	291.9	334.9	345.7	345.8	346.8	383.9	330.0	360.5	361.6
Stroke (I60-I69)	29,000	30,842	31,933	33,579	33,944	33,462	35,410	33,047	34,238	34,662
age 0-44	1,239	1,354	1,197	1,279	1,323	1,185	1,341	1,112	1,211	1,139
age 45-64	6,822	7,096	7,606	8,000	7,714	7,987	8,276	8,041	8,136	8,030
age 65-74	6,608	7,056	7,255	7,786	8,158	7,876	8,223	7,712	8,153	8,081
age 75+	14,331	15,336	15,875	16,514	16,749	16,414	17,570	16,182	16,738	17,412
rate	594.3	620.5	636.7	659.4	653.5	639.1	661.7	614.2	626.3	634.9

Notes: Original source ISD SMR01. Rate = age-sex standardised discharge rate per 100,000 population. Most recent figures are provisional

Citation: PHS (2024) Analysis of Scotland hospital data

Source: Public Health Scotland (2024) Scottish Heart Disease Statistics [accessed Feb 2024]

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

Public Health Scotland (2024) Scottish Stroke Statistics [accessed Feb 2024]

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

Table 2.7 Inpatient episodes for cardiovascular diagnoses by sex and age, Wales 2022/23[Back to Table of Contents](#)for content queries contact healthinsights@bhf.org.uk

	All **	male	female	Mean age	Age 0-14	Age 15-59	Age 60-74	Age 75+
Heart and circulatory diseases (CVD) (I00-I99)	70,454	57%	43%	70	753	14,415	22,926	32,333
<i>% of total</i>					1.1%	20.5%	32.6%	45.9%
Coronary heart disease (I20-I25)	17,512	67%	33%	69	3	4,105	7,304	6,095
<i>% of total</i>					0.0%	23.4%	41.7%	34.8%
Myocardial infarction (I21-I22)	8,026	66%	34%	69	0	1,927	3,136	2,963
<i>% of total</i>					0.0%	24.0%	39.1%	36.9%
Atrial fibrillation (I48)	6,136	57%	43%	72	4	1,057	2,195	2,880
<i>% of total</i>					0.1%	17.2%	35.8%	46.9%
Heart Failure (I50)	8,137	52%	48%	78	4	607	1,766	5,760
<i>% of total</i>					0.0%	7.5%	21.7%	70.8%
Stroke (I60-I69)	11,681	51%	49%	74	17	1,838	3,456	6,369
<i>% of total</i>					0.1%	15.7%	29.6%	54.5%

Notes: All data based on finished consultant episodes (FCEs). ** Please note this is a different dataset to Table 2.3**Citation:** BHF (2024) Analysis of Welsh hospital data**Source:** Digital Health & Care Wales (2024) Hospital Admissions Publications Tables, primary diagnosis by Welsh provider

[accessed Feb 2024]

<https://dhcw.nhs.wales/information-services/information-delivery/hospital-admissions/hospital-admissions-annual-online-data-tables-statistical-report>

Table 2.8 Inpatient episodes for cardiovascular diagnoses by sex and age, Northern Ireland 2022/23

[Back to Table of Contents](#)

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	male	female	Mean age	Age 0-9	Age 10-19	Age 20-29	Age 30-39	Age 40-49	Age 50-59	Age 60-69	Age 70-79	Age 80+
Heart and circulatory diseases (CVD) (I00-I99)	61%	39%	69	248	272	487	1,088	2,405	5,986	9,258	11,624	11,556
% of total				0.6%	0.6%	1.1%	2.5%	5.6%	13.9%	21.6%	27.1%	26.9%
Coronary heart disease (I20-I25)	72%	28%	68	1	4	24	154	663	2,398	3,852	3,762	2,170
% of total				0.0%	0.0%	0.2%	1.2%	5.1%	18.4%	29.6%	28.9%	16.7%
Myocardial infarction (I21-I22)	72%	28%	69	0	0	9	84	355	1,081	1,706	1,657	1,326
% of total				0.0%	0.0%	0.1%	1.4%	5.7%	17.4%	27.4%	26.6%	21.3%
Atrial fibrillation (I48)	60%	40%	70	1	1	28	101	191	616	1,017	1,348	1,148
% of total				0.0%	0.0%	0.6%	2.3%	4.3%	13.8%	22.8%	30.3%	25.8%
Heart Failure (I50)	50%	50%	78	5	2	4	30	133	346	763	1,926	3,626
% of total				0.1%	0.0%	0.1%	0.4%	1.9%	5.1%	11.2%	28.2%	53.1%
Stroke (I60-I69)	51%	49%	70	7	12	19	58	148	320	427	580	685
% of total				0.3%	0.5%	0.8%	2.6%	6.6%	14.2%	18.9%	25.7%	30.4%

Notes: All data based on finished consultant episodes (FCEs)

Citation: BHF (2024) Analysis of NI hospital data

Source: NI Department of Health (2023). Hospital Episode Statistics 2022/23 [accessed Feb 2024]

<https://www.health-ni.gov.uk/publications/acute-episode-based-activity-202223>

Table 2.9 Incidence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD) by nation and region, United Kingdom 2021

[Back to Table of Contents](#)

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Country	English Region	Incidence CVD 2021 est	Incidence A/S CVD 2021 est	Incidence CHD 2021 est	Incidence A/S CHD 2021 est	Incidence Stroke 2021 est	Incidence Stroke A/S 2021
	East Midlands	47,014	507.1	11,854	127.6	6,463	68.0
	East of England	60,524	497.5	14,838	119.7	8,330	65.0
	Greater London	57,387	479.5	13,617	110.1	7,741	61.5
	North East England	28,174	548.2	7,530	147.6	3,843	73.1
	North West England	72,762	536.9	18,616	137.3	10,065	72.3
	South East England	85,218	484.2	19,560	109.2	12,007	64.5
	South West England	58,021	494.5	13,782	116.1	8,304	66.4
	West Midlands	53,121	488.4	13,256	121.7	7,766	68.4
	Yorkshire and the Humber	52,304	511.4	13,897	136.3	7,458	70.7
<i>England</i>		<i>514,525</i>	<i>501.6</i>	<i>126,950</i>	<i>122.6</i>	<i>71,976</i>	<i>67.2</i>
<i>Scotland</i>		<i>78,383</i>	<i>726.2</i>	<i>29,842</i>	<i>271.3</i>	<i>16,394</i>	<i>149.1</i>
<i>Wales</i>		<i>35,244</i>	<i>550.9</i>	<i>12,008</i>	<i>181.6</i>	<i>4,824</i>	<i>74.5</i>
<i>Northern Ireland</i>		<i>20,355</i>	<i>612.8</i>	<i>8,044</i>	<i>239.3</i>	<i>2,775</i>	<i>81.3</i>
United Kingdom		648,507	526.6	176,844	141.6	95,970	75.1

Notes: All figures are modelled 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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1
 ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Citation: BHF (2024) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.

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

Global Burden of Disease Study 2021 Results.

[accessed July 2024]

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

Table 2.10 Incidence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2021

[Back to Table of Contents](#)

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Region	Country	Incidence CVD 2021 est	Incidence A/S CVD 2021 est	Incidence CHD 2021 est	Incidence A/S CHD 2021 est	Incidence Stroke 2021 est	Incidence Stroke A/S 2021
GLOBAL		66,809,837	787.0	31,872,778	372.9	11,946,274	141.6
EUROPE		11,527,414	745.8	5,514,620	349.3	1,748,916	112.4
	Albania	30,220	749.3	13,641	322.2	6,252	155.3
	Andorra	757	501.0	247	158.2	93	61.9
	Austria	122,031	701.1	35,689	192.6	16,912	95.7
	Belarus	157,859	997.9	97,361	606.7	27,034	174.8
	Belgium	123,195	549.7	39,610	170.5	17,143	72.6
	Bosnia and Herzegovina	44,580	738.7	19,808	324.9	10,117	171.3
	Bulgaria	116,404	847.8	57,468	413.1	31,162	225.9
	Croatia	52,927	611.1	21,712	245.5	11,027	122.3
	Cyprus	9,841	486.9	2,357	119.6	1,261	67.5
	Czechia	160,691	779.1	76,589	369.3	23,181	110.1
	Denmark	62,318	552.9	15,485	132.5	8,211	72.4
	Estonia	23,789	908.4	15,239	559.4	2,285	89.0
	Finland	79,407	652.0	29,007	224.3	12,177	99.9
	France	716,849	533.7	249,808	176.3	94,240	68.3
	Germany	1,233,101	673.4	441,722	223.9	185,041	99.0
	Greece	122,897	526.3	31,922	124.5	26,950	103.2
	Hungary	143,743	752.0	75,516	382.6	22,140	117.2
	Iceland	3,150	560.8	1,083	188.8	404	71.2
	Ireland	39,516	511.4	13,406	170.1	4,463	58.8
	Italy	810,477	606.9	226,379	166.4	92,278	61.6
	Latvia	30,802	778.6	16,076	385.1	6,603	164.1
	Lithuania	47,169	812.3	25,610	413.6	10,056	176.1
	Luxembourg	5,377	522.9	1,244	117.1	609	57.7
	Malta	4,280	461.5	1,149	121.2	560	60.2
	Moldova	51,445	873.0	30,594	511.8	8,583	148.8
	Montenegro	7,560	806.6	3,458	364.7	1,814	207.2
	Netherlands	185,253	549.5	60,150	178.5	25,539	76.4
	North Macedonia	26,508	895.0	11,570	391.6	7,487	281.4
	Norway	60,406	623.5	16,783	169.9	9,368	93.0
	Poland	386,318	557.5	158,482	227.3	72,341	102.9
	Portugal	98,432	415.7	18,181	72.9	17,984	69.4
	Romania	278,115	760.2	135,975	364.3	63,904	170.5
	Russian Federation	2,718,586	1,160.7	1,719,385	728.0	421,514	183.0
	Serbia	144,855	901.6	75,126	468.4	31,800	194.2
	Slovakia	67,735	730.3	33,182	357.3	12,676	137.8
	Slovenia	27,928	655.9	12,435	286.6	3,427	76.5
	Spain	475,967	514.5	138,476	143.5	70,980	73.7
	Sweden	143,524	695.0	48,826	226.8	18,136	83.2
	Switzerland	86,856	496.0	28,103	149.9	10,388	58.0
	Ukraine	884,937	1,156.2	587,713	752.3	134,284	183.7
	United Kingdom	648,507	526.6	176,844	141.6	95,970	75.1
	England	514,525	501.6	126,950	122.6	71,976	67.2
	Scotland	78,383	726.2	29,842	271.3	16,394	149.1
	Wales	35,244	550.9	12,008	181.6	4,824	74.5
	Northern Ireland	20,355	612.8	8,044	239.3	2,775	81.3
NORTH AMERICA		4,293,813	670.2	1,114,883	174.2	466,209	76.3
	Canada	446,471	638.4	146,397	204.2	54,092	81.8
	United States	3,846,490	673.9	967,990	170.4	412,025	75.6
LATIN AMERICA & CARIBBEAN		3,628,736	590.9	1,541,094	248.2	554,334	90.7
	Brazil	1,323,880	546.9	420,772	167.6	239,213	97.2
ASIA		39,895,555	806.1	20,239,621	406.6	7,954,014	162.7
	China	16,039,153	811.8	7,304,573	365.7	4,090,480	204.8
	India	10,778,160	905.2	6,849,890	585.2	1,250,949	107.4
	Japan	1,399,673	424.2	358,365	90.6	305,159	97.0
	Türkiye (Turkey)	872,143	939.2	621,079	665.1	97,866	110.4
	United Arab Emirates	85,873	1,464.5	62,589	1,084.3	10,210	173.5
AFRICA		6,935,990	924.6	3,268,358	519.6	1,132,308	165.6
	South Africa	382,412	816.4	172,647	380.1	68,729	158.3
AUSTRALASIA		287,698	553.0	116,017	220.6	36,488	69.6
	Australia	237,889	543.7	94,563	213.7	30,924	70.0
	New Zealand	49,809	602.3	21,454	257.4	5,564	67.8

Notes: All figures are modelled 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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1
ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Citation: BHF (2024) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2021 Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

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

[accessed July 2024]

Table 2.11 Prevalence of selected cardiovascular conditions by nation and region, United Kingdom, latest available

[Back to Table of Contents](#)

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Nation/Region	ONS Code	List size	Coronary Heart Disease Register		Stroke or Transient Ischaemic Attacks (TIA) Register		Heart Failure Register		Atrial Fibrillation Register		Peripheral Arterial Disease (PAD) Register		BHF Heart & Circulatory Diseases (CVD) Estimate	
			N	%	N	%	N	%	N	%	N	%	N	% popn
East Midlands	E12000004	5,240,875	166,434	3.2	103,666	2.0	62,501	1.2	120,321	2.3	31,705	0.6	580,000	12
East of England	E12000006	6,822,379	203,823	3.0	125,695	1.8	64,945	1.0	154,455	2.3	34,276	0.5	700,000	11
London	E12000007	10,866,351	202,018	1.9	119,673	1.1	62,921	0.6	122,816	1.1	34,955	0.3	650,000	7
North East England	E12000001	2,848,210	110,450	3.9	67,013	2.4	38,171	1.3	69,207	2.4	24,037	0.8	370,000	14
North West England	E12000002	8,107,096	279,445	3.4	164,820	2.0	92,369	1.1	183,932	2.3	61,486	0.8	940,000	13
South East England	E12000008	10,038,401	282,381	2.8	185,356	1.8	96,170	1.0	238,569	2.4	51,622	0.5	1,030,000	11
South West England	E12000009	6,048,667	215,875	3.6	139,238	2.3	73,892	1.2	168,013	2.8	38,986	0.6	760,000	13
West Midlands	E12000005	6,498,565	201,288	3.1	122,988	1.9	65,301	1.0	139,624	2.1	35,759	0.6	680,000	11
Yorkshire and The Humber	E12000003	5,953,161	202,125	3.4	124,213	2.1	64,534	1.1	133,090	2.2	42,963	0.7	690,000	12
England (2022/23)	E92000001	62,423,705	1,863,839	3.0	1,152,662	1.8	620,804	1.0	1,330,027	2.1	355,789	0.6	6,400,000	11
Scotland (2018/19)	S92000003	5,723,722	225,080	3.9	130,317	2.3	48,430	0.8	108,359	1.9	48,037	0.8	730,000	13
Wales (2021/22)	W92000004	3,305,351	114,619	3.5	71,070	2.2	38,643	1.2	82,135	2.5	n/a	-	340,000	11
Northern Ireland (2023/24)	N92000002	2,050,887	75,265	3.7	41,487	2.0	21,701	1.1	47,101	2.3	n/a	-	225,000	12
United Kingdom (UK)	K02000001	73,503,665	2,278,803	3.1	1,395,536	1.9	729,578	1.0	1,567,622	2.1	n/a	-	7.6 million+	11

Notes: These data show total numbers of people on GP patient registers in each area. GPs allocated to region and nation by main surgery postcode (BHF using CACI InSite)
 With BHF analysis - adjustments have been made where active practices did not file patient data in the latest available year (previous data features instead)
 BHF CVD estimates based on latest prevalence data; NHS England/PH Scotland/StatsWales/DH Northern Ireland and health surveys: NHS England and Welsh/Scottish Government
 - CVD estimate shows percentage of population (latest ONS/NRS/NISRA estimates) and not a proportion of the list size

Citation: BHF (2024) Analysis of UK GP patient register data [CVD = BHF 2024 estimates]

Source: England - NHS England - Quality & Outcomes Framework (QOF) prevalence data 2022/23 [accessed Nov 2023]
<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/>
 Wales - StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2021/22 [accessed Nov 2023]
<https://statswales.gov.wales/Catalogue/Health-and-Social-Care/NHS-Primary-and-Community-Activity/GMS-Contract>
 Scotland - Public Health Scotland. Patient counts from GP prevalence data 2018/19 with BHF analysis [SPIRE not included here as it only had 60% coverage; see 2.17 for updated prevalence percentages]
<https://publichealthscotland.scot/publications/general-practice-disease-prevalence-data-visualisation/>
 Northern Ireland - Department of Health, Quality & Outcomes Framework (QOF) prevalence data 2023/24 [accessed July 2024]
<https://www.health-ni.gov.uk/articles/prevalence-statistics>

Table 2.12 Prevalence of selected cardiovascular conditions, UK 2006/07 to 2022/23

[Back to Table of Contents](#)

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	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	3.68	3.64	3.61	3.57	3.53	3.52	3.43	3.46	3.33	3.31	3.27	3.24	3.21	3.20	3.14	3.10	3.07
Stroke and TIA	1.66	1.66	1.71	1.73	1.76	1.76	1.75	1.76	1.76	1.79	1.81	1.82	1.84	1.85	1.86	1.87	1.90
Atrial fibrillation	1.30	1.31	1.36	1.40	1.44	1.51	1.52	1.54	1.62	1.72	1.84	1.92	1.99	2.05	2.06	2.10	2.14
Heart failure	0.80	0.81	0.75	0.74	0.73	0.72	0.72	0.73	0.73	0.78	0.81	0.84	0.93	0.90	0.91	0.95	0.99

Notes: BHF analysis. Weighted average based on population in each UK nation - trend data used for Wales and Scotland for 2022/23, so UK figures are estimated

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

Citation: BHF (2024) Analysis of UK GP patient register data

Source: NHS England. Quality & Outcomes Framework (QOF) prevalence data to 2022/23

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

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

Subsequent Scotland data to 2021/22 from SPIRE (now demised)

<https://publichealthscotland.scot/publications/general-practice-disease-prevalence-data-visualisation/>

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

<https://www.gov.wales/general-medical-services-contract-quality-assurance-and-improvement-framework>

StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2021/22

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

Department of Health Northern Ireland. Quality & Outcomes Framework (QOF) reporting data to 2022/23

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

Table 2.13 Prevalence of selected cardiovascular conditions, England 2004/05 to 2022/23

[Back to Table of Contents](#)

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	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	3.60	3.60	3.54	3.50	3.47	3.44	3.40	3.40	3.30	3.34	3.20	3.20	3.15	3.13	3.11	3.10	3.05	3.01	2.99
Stroke and TIA	1.50	1.60	1.61	1.60	1.66	1.68	1.71	1.70	1.70	1.70	1.70	1.74	1.75	1.77	1.78	1.80	1.80	1.81	1.85
Atrial fibrillation			1.29	1.30	1.35	1.39	1.43	1.50	1.50	1.52	1.60	1.71	1.84	1.91	1.98	2.04	2.05	2.09	2.13
Heart failure			0.78	0.80	0.73	0.72	0.71	0.70	0.70	0.71	0.70	0.76	0.79	0.83	0.93	0.89	0.91	0.95	0.99

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

Citation: NHSE (2023) QOF prevalence data

Source: NHS England. Quality & Outcomes Framework (QOF) prevalence data to 2022/23

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

Table 2.14 Prevalence of selected cardiovascular conditions from CVDPREVENT, unadjusted percentages and age-standardised by deprivation quintile, England, Mar 2024

[Back to Table of Contents](#) for content queries contact healthinsights@bhf.org.uk

Condition(s)	Code	All %	IMD Quintiles					Age Standardised IMD Quintiles				
			Most deprived quintile %	2nd %	3rd %	4th %	Least deprived quintile %	Most deprived quintile %	2nd %	3rd %	4th %	Least deprived quintile %
Cardiovascular disease **	CVDP001CVD	6.02	5.86	5.61	6.08	6.35	6.26	7.95	6.67	5.93	5.53	5.09
Heart failure (HF)	CVDP001HF	1.25	1.21	1.17	1.27	1.32	1.28	1.67	1.39	1.23	1.14	1.02
Atrial fibrillation (AF)	CVDP001AF	2.42	1.76	2.01	2.52	2.85	3.04	2.48	2.41	2.44	2.46	2.44

Notes:

CVDPREVENT = Cardiovascular Disease Prevention Audit. Produced by Office for Health Improvement and Disparities (OHID) and the NHS Benchmarking Network.

Data snapshot March 2024; published July 2024 - updates are issued quarterly

** includes CHD (coronary heart disease), stroke/TIA (transient ischaemic attack), PAD (peripheral arterial disease), heart failure and AAA (abdominal aortic aneurysm)

this is a narrower definition than health surveys, which are inclusive and also self-declared, and therefore show much higher prevalence rates

Citation:

OHID/NHS (2024) Analysis of England GP prevalence data

Source:

CVDPREVENT data (OHID & NHS England 2024)

<https://www.cvdprevent.nhs.uk/data-explorer>

Table 2.15 Prevalence of selected cardiovascular conditions from CVDPREVENT, unadjusted percentages by sex and age, plus age-standardised by sex, England, Mar 2024

[Back to Table of Contents](#) for content queries contact healthinsights@bhf.org.uk

Condition(s)	Code	All Adults					Male					Female					Age Standardised		
		All 18+	18-39	40-59	60-79	80+	Male 18+	18-39	40-59	60-79	80+	Female 18+	18-39	40-59	60-79	80+	All	Male	Female
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Cardiovascular disease **	CVDP001CVD	6.02	0.17	2.60	13.80	31.19	7.39	0.20	3.44	18.59	38.01	4.65	0.14	1.70	9.25	26.33	6.40	8.41	4.58
Heart failure (HF)	CVDP001HF	1.25	0.05	0.41	2.44	8.76	1.47	0.06	0.56	3.23	10.31	1.03	0.03	0.26	1.68	7.65	1.32	1.70	0.99
Atrial fibrillation (AF)	CVDP001AF	2.42	0.06	0.62	4.97	17.16	2.86	0.09	0.88	6.57	20.49	1.98	0.03	0.34	3.45	14.79	2.56	3.32	1.90

Notes: CVDPREVENT = Cardiovascular Disease Prevention Audit. Produced by Office for Health Improvement and Disparities (OHID) and the NHS Benchmarking Network.
Data March 2024 snapshot; published July 2024 - updates are issued quarterly All data are diagnosed, adults 18 and over
** includes CHD (coronary heart disease), stroke/TIA (transient ischaemic attack), PAD (peripheral arterial disease), heart failure and AAA (abdominal aortic aneurysm)
this is a narrower definition than health surveys, which are inclusive and also self-declared, and therefore show much higher prevalence rates

Citation: OHID/NHS (2024) Analysis of England GP prevalence data

Source: CVDPREVENT data (OHID & NHS England 2024)
<https://www.cvdprevent.nhs.uk/data-explorer>

Table 2.16 Prevalence of cardiovascular conditions from GP patient registers, diagnosed percentages by deprivation decile, England , latest available

[Back to Table of Contents](#)

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Year	IMD Geography	ALL	IMD Deciles										
			Most deprived	2nd	3rd	4th	5th	6th	7th	8th	9th	Least deprived	
			%	%	%	%	%	%	%	%	%	%	
CHD	2022/23	2023 districts/UA	2.99	3.02	2.93	2.72	3.20	3.05	2.92	3.31	3.16	2.92	2.74
Stroke and TIA	2022/23	2023 districts/UA	1.85	1.70	1.80	1.65	2.01	1.92	1.83	2.07	2.02	1.94	1.80
Atrial fibrillation (AF)	2022/23	2023 county/UA	2.13	1.63	1.94	1.80	1.58	2.06	2.21	2.53	2.36	2.49	2.25
Heart failure (HF)	2022/23	2023 county/UA	0.99	0.90	1.02	0.95	0.89	1.04	1.01	1.12	0.99	1.06	0.87

Notes:

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

IMD: index of multiple deprivation

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

See also age-standardised data from CVDPrevent Table 2.14

Citation:

OHID (2024) Analysis of NHSE QOF data

Source:

OHID analysis of QOF prevalence data (NHS England 2023); deprivation deciles in England based on IMD 2019

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

<https://fingertips.phe.org.uk/>

[accessed July 2024]

Table 2.17 Prevalence of selected cardiovascular conditions, Scotland 2008/09 to 2022/23

[Back to Table of Contents](#)

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	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	4.42	4.38	4.37	4.36	4.29	4.26	4.14	4.10	4.03	3.9	3.9	3.8	3.8	3.7	3.6
Stroke and TIA	2.02	2.06	2.10	2.15	2.12	2.16	2.16	2.20	2.23	2.3	2.3	2.3	2.2	2.2	2.2
Atrial fibrillation	1.32	1.37	1.42	1.49	1.53	1.59	1.64	1.71	1.77	1.8	1.9	1.9	1.9	1.9	1.9
Heart failure	0.84	0.82	0.81	0.81	0.82	0.83	0.82	0.85	0.84	0.9	0.9	0.9	0.9	0.9	0.9

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

Citation: BHF (2024) Analysis of Scottish disease prevalence data

Source: Public Health Scotland (previously ISD). Quality & Outcomes Framework (QOF) prevalence data to 2015/16
Subsequent data from SPIRE (now demised) - 2023 updates (for 2017 to 2023) published to one decimal place only

<https://publichealthscotland.scot/publications/general-practice-disease-prevalence-data-visualisation/>

Table 2.18 Prevalence of selected cardiovascular conditions, Wales 2006/07 to 2021/22[Back to Table of Contents](#)for content queries contact healthinsights@bhf.org.uk

	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	4.30	4.20	4.20	4.10	4.00	4.00	3.90	3.88	3.80	3.75	3.70	3.66	3.63	3.61	3.53	3.47
Stroke and TIA	2.00	2.00	2.00	2.00	2.10	2.10	2.00	2.02	2.00	2.05	2.07	2.09	2.12	2.17	2.15	2.15
Atrial fibrillation	1.60	1.60	1.70	1.70	1.70	1.80	1.80	1.91	2.00	2.03	2.10	2.24	2.34	2.43	2.44	2.49
Heart failure	1.00	0.90	0.90	0.90	0.90	0.90	0.90	0.95	1.00	0.99	1.01	1.03	1.06	1.11	1.13	1.17

Notes: CHD: coronary heart disease TIA: transient ischaemic attack (mini-stroke)**Citation:** BHF (2023) Analysis of Welsh disease prevalence data**Source:** StatsWales. Quality & Outcomes Framework (QOF) achievement data to 2018/19<https://www.gov.wales/general-medical-services-contract-quality-assurance-and-improvement-framework>

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

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

Table 2.19 Prevalence of cardiovascular conditions from GP patient registers, by sex and age, Wales 2021/22

[Back to Table of Contents](#)

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ALL	15 to 19 %	20 to 24 %	25 to 29 %	30 to 34 %	35 to 39 %	40 to 44 %	45 to 49 %	50 to 54 %	55 to 59 %	60 to 64 %	65 to 69 %	70 to 74 %	75 to 79 %	80 to 84 %	85 to 89 %	90 to 94 %	95 and over %
CHD	0.0	0.0	0.0	0.1	0.1	0.4	0.9	1.8	3.2	5.2	7.7	10.4	13.8	18.0	20.6	21.1	20.3
Stroke and TIA	0.0	0.1	0.1	0.1	0.2	0.4	0.6	1.2	1.9	2.7	4.1	5.8	8.3	11.5	14.5	16.7	17.3
Atrial fibrillation	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.7	1.4	2.3	4.0	6.7	10.5	15.5	20.3	23.2	21.7
Heart failure	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.2	1.9	2.9	4.4	6.9	9.6	11.4	12.0
MALE	15 to 19 %	20 to 24 %	25 to 29 %	30 to 34 %	35 to 39 %	40 to 44 %	45 to 49 %	50 to 54 %	55 to 59 %	60 to 64 %	65 to 69 %	70 to 74 %	75 to 79 %	80 to 84 %	85 to 89 %	90 to 94 %	95 and over %
CHD	0.0	0.0	0.0	0.1	0.2	0.5	1.3	2.6	4.6	7.5	11.1	14.7	18.8	24.4	27.3	28.0	27.1
Stroke and TIA	0.0	0.1	0.1	0.1	0.2	0.4	0.7	1.3	2.2	3.2	4.9	7.1	9.7	13.3	16.0	18.7	18.0
Atrial fibrillation	0.0	0.0	0.1	0.1	0.2	0.3	0.6	1.1	2.0	3.2	5.6	8.9	13.5	18.9	24.1	27.3	25.9
Heart failure	0.0	0.0	0.1	0.1	0.2	0.2	0.4	0.7	1.1	1.7	2.6	4.0	5.8	8.4	11.6	13.5	13.6
FEMALE	15 to 19 %	20 to 24 %	25 to 29 %	30 to 34 %	35 to 39 %	40 to 44 %	45 to 49 %	50 to 54 %	55 to 59 %	60 to 64 %	65 to 69 %	70 to 74 %	75 to 79 %	80 to 84 %	85 to 89 %	90 to 94 %	95 and over %
CHD	0.0	0.0	0.0	0.0	0.1	0.2	0.5	1.0	1.7	2.9	4.5	6.3	9.3	12.8	15.9	17.6	17.8
Stroke and TIA	0.0	0.0	0.1	0.1	0.2	0.4	0.6	1.0	1.6	2.3	3.3	4.7	7.0	10.0	13.4	15.7	17.1
Atrial fibrillation	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.7	1.3	2.5	4.5	7.9	12.8	17.6	21.1	20.2
Heart failure	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.2	2.0	3.2	5.7	8.2	10.3	11.5

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

Citation: StatsWales (2024) Welsh disease prevalence data

Source: StatsWales. Disease prevalence rates by age band and gender (Audit+) 2021/22

[accessed Feb 2024]

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

Table 2.20 Prevalence of selected cardiovascular conditions, Northern Ireland 2004/05 to 2023/24

[Back to Table of Contents](#) for content queries contact healthinsights@bhf.org.uk

	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	4.17	4.23	4.20	4.14	4.06	4.03	3.99	3.94	3.91	3.88	3.84	3.82	3.78	3.75	3.73	3.70	3.69	3.66	3.67	3.67
Stroke and TIA	1.41	1.57	1.62	1.65	1.68	1.71	1.75	1.78	1.75	1.79	1.81	1.85	1.87	1.89	1.93	1.90	1.95	1.96	1.98	2.02
Atrial fibrillation			1.25	1.26	1.29	1.33	1.38	1.43	1.45	1.51	1.59	1.68	1.77	1.89	1.98	2.07	2.09	2.14	2.22	2.30
Heart failure			0.82	0.80	0.75	0.76	0.76	0.75	0.75	0.76	0.78	0.80	0.85	0.88	0.92	0.97	0.96	0.98	1.00	1.06

Notes: CHD: coronary heart disease. TIA: transient ischaemic attack (also known as mini-stroke)
Citation: BHF (2024) Analysis of NI disease prevalence data
Source: Department of Health Northern Ireland. Quality & Outcomes Framework (QOF) reporting data to 2023/24
<https://www.health-ni.gov.uk/articles/prevalence-statistics>

Table 2.21 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

[Back to Table of Contents](#)

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region/nation tables see 2.11

region/nation tables see 2.11					GP PREVALENCE DATA (PATIENT REGISTERS & PERCENTAGE OF LIST)												BHF Heart & Circulatory Diseases (CVD) Estimate	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Patient List	Coronary Heart Disease Register		Stroke/TIA Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register		Total	% popn	
					(all ages)	Total	%	Total	%	Total	%	Total	%	Total	%			
E06000001	Hartlepool	County Durham	North East	ENG	97,848	4,074	4.2%	2,253	2.3%	1,133	1.2%	2,306	2.4%	844	0.9%	13,000	14%	
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	ENG	170,692	5,440	3.2%	3,238	1.9%	1,446	0.8%	3,191	1.9%	1,260	0.7%	18,000	12%	
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	ENG	138,411	5,567	4.0%	3,409	2.5%	1,574	1.1%	3,688	2.7%	1,239	0.9%	19,000	14%	
E06000004	Stockton-on-Tees	County Durham	North East	ENG	206,471	7,523	3.6%	4,833	2.3%	2,225	1.1%	5,033	2.4%	1,437	0.7%	25,000	13%	
E06000005	Darlington	County Durham	North East	ENG	112,343	3,853	3.4%	2,566	2.3%	2,067	1.8%	2,658	2.4%	1,036	0.9%	15,000	14%	
E06000006	Halton	Cheshire	North West	ENG	135,394	5,890	4.4%	2,808	2.1%	1,604	1.2%	3,495	2.6%	1,228	0.9%	18,000	14%	
E06000007	Warrington	Cheshire	North West	ENG	226,355	7,734	3.4%	4,379	1.9%	2,313	1.0%	5,309	2.3%	1,533	0.7%	26,000	12%	
E06000008	Blackburn with Darwen	Lancashire	North West	ENG	183,005	6,218	3.4%	3,251	1.8%	1,616	0.9%	3,000	1.6%	1,234	0.7%	19,000	12%	
E06000009	Blackpool	Lancashire	North West	ENG	177,381	7,697	4.3%	4,405	2.5%	3,111	1.8%	4,626	2.6%	1,978	1.1%	27,000	19%	
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	311,033	10,538	3.4%	4,920	1.6%	2,549	0.8%	5,411	1.7%	2,302	0.7%	31,000	12%	
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire & The Humber	ENG	329,588	15,350	4.7%	8,144	2.5%	4,541	1.4%	10,513	3.2%	2,765	0.8%	49,000	14%	
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	172,558	6,358	3.7%	4,388	2.5%	1,503	0.9%	4,686	2.7%	1,602	0.9%	22,000	14%	
E06000013	North Lincolnshire	Lincolnshire	Yorkshire & The Humber	ENG	187,427	7,721	4.1%	4,204	2.2%	1,767	0.9%	4,688	2.5%	1,166	0.6%	24,000	14%	
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire & The Humber	ENG	232,826	8,827	2.9%	4,880	2.1%	2,640	1.1%	5,510	2.4%	1,491	0.6%	26,000	13%	
E06000015	Derby	Derbyshire	East Midlands	ENG	308,663	8,900	2.9%	5,552	1.8%	3,454	1.1%	5,642	1.8%	2,019	0.7%	31,000	12%	
E06000016	Leicester	Leicestershire	East Midlands	ENG	434,661	9,798	2.3%	5,274	1.2%	3,674	0.8%	4,525	1.0%	1,483	0.3%	30,000	8%	
E06000017	Rutland	Rutland	East Midlands	ENG	42,235	1,453	3.4%	986	2.3%	760	1.8%	1,467	3.5%	219	0.5%	5,900	14%	
E06000018	Nottingham	Nottinghamshire	East Midlands	ENG	400,112	8,943	2.2%	5,669	1.4%	3,177	0.8%	5,097	1.3%	1,806	0.5%	30,000	9%	
E06000019	Herefordshire, County of	Herefordshire	West Midlands	ENG	193,776	6,812	3.5%	4,887	2.5%	2,210	1.1%	5,842	3.0%	1,281	0.7%	25,000	13%	
E06000020	Telford and Wrekin	Shropshire	West Midlands	ENG	201,549	6,108	3.0%	4,012	2.0%	1,666	0.8%	4,026	2.0%	1,344	0.7%	21,000	11%	
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	ENG	297,515	9,743	3.3%	6,194	2.1%	3,430	1.2%	6,610	2.2%	2,152	0.7%	34,000	13%	
E06000022	Bath and North East Somerset	Somerset	South West	ENG	219,935	6,178	2.8%	4,017	1.8%	2,097	1.0%	5,320	2.4%	1,063	0.5%	23,000	12%	
E06000023	Bristol, City of	Bristol	South West	ENG	561,345	12,383	2.2%	8,418	1.5%	4,800	0.9%	8,991	1.6%	2,838	0.5%	45,000	9%	
E06000024	North Somerset	Somerset	South West	ENG	228,798	8,340	3.6%	5,825	2.5%	2,912	1.3%	7,202	3.1%	1,456	0.6%	31,000	14%	
E06000025	South Gloucestershire	Gloucestershire	South West	ENG	281,765	8,332	3.0%	5,569	2.0%	3,045	1.1%	6,900	2.4%	1,607	0.6%	31,000	11%	
E06000026	Plymouth	Devon	South West	ENG	301,086	10,944	3.6%	6,180	2.1%	3,693	1.2%	7,065	2.3%	2,079	0.7%	36,000	13%	
E06000027	Torbay	Devon	South West	ENG	148,806	6,121	4.1%	4,069	2.7%	1,880	1.3%	4,828	3.2%	1,476	1.0%	22,000	16%	
E06000030	Swindon	Wiltshire	South West	ENG	247,690	6,668	2.7%	4,029	1.6%	2,748	1.1%	4,864	2.0%	1,334	0.5%	23,000	10%	
E06000031	Peterborough	Cambridgeshire	East of England	ENG	239,501	5,833	2.4%	3,273	1.4%	1,834	0.8%	3,495	1.5%	1,274	0.5%	19,000	9%	
E06000032	Luton	Bedfordshire	East of England	ENG	269,689	6,636	2.5%	3,538	1.3%	1,755	0.7%	3,193	1.2%	916	0.3%	19,000	8%	
E06000033	Southend-on-Sea	Essex	East of England	ENG	191,828	5,646	2.9%	3,652	1.9%	2,201	1.1%	4,167	2.2%	837	0.4%	20,000	11%	
E06000034	Thurrock	Essex	East of England	ENG	186,238	4,266	2.3%	2,948	1.6%	1,674	0.9%	2,992	1.6%	773	0.4%	15,000	8%	
E06000035	Medway	Kent	South East	ENG	307,427	7,862	2.6%	4,104	1.3%	2,887	0.9%	5,420	1.8%	1,300	0.4%	26,000	9%	
E06000036	Bracknell Forest	Berkshire	South East	ENG	130,654	3,007	2.3%	1,768	1.4%	1,070	0.8%	2,401	1.8%	499	0.4%	11,000	9%	
E06000037	West Berkshire	Berkshire	South East	ENG	156,860	4,014	2.6%	2,724	1.7%	1,539	1.0%	3,629	2.3%	689	0.4%	15,000	9%	
E06000038	Reading	Berkshire	South East	ENG	256,332	4,446	1.7%	2,966	1.2%	1,976	0.8%	3,509	1.4%	731	0.3%	16,000	9%	
E06000039	Slough	Berkshire	South East	ENG	177,441	4,538	2.6%	1,969	1.1%	1,392	0.8%	1,724	1.0%	635	0.4%	12,000	8%	
E06000040	Windsor and Maidenhead	Berkshire	South East	ENG	175,349	4,858	2.8%	2,919	1.7%	1,772	1.0%	4,029	2.3%	635	0.4%	17,000	11%	
E06000041	Wokingham	Berkshire	South East	ENG	156,401	3,609	2.3%	2,414	1.5%	1,432	0.9%	3,380	2.2%	475	0.3%	13,000	7%	
E06000042	Milton Keynes	Buckinghamshire	South East	ENG	336,066	7,244	2.2%	3,793	1.1%	2,800	0.8%	5,400	1.6%	1,264	0.4%	24,000	8%	
E06000043	Brighton and Hove	East Sussex	South East	ENG	331,192	6,891	2.1%	4,511	1.4%	2,058	0.6%	5,313	1.6%	1,377	0.4%	24,000	9%	
E06000044	Portsmouth	Hampshire	South East	ENG	233,595	6,191	2.7%	3,903	1.7%	2,916	1.2%	4,448	1.9%	1,647	0.7%	23,000	11%	
E06000045	Southampton	Hampshire	South East	ENG	317,809	6,963	2.2%	4,861	1.5%	2,814	0.9%	5,166	1.6%	1,602	0.5%	25,000	10%	
E06000046	Isle of Wight	Isle of Wight	South East	ENG	145,722	5,612	3.9%	4,068	2.8%	2,080	1.4%	4,447	3.1%	1,916	1.3%	22,000	16%	
E06000047	County Durham	County Durham	North East	ENG	563,795	23,877	4.2%	14,209	2.5%	9,048	1.6%	14,116	2.5%	5,141	0.9%	80,000	15%	
E06000049	Cheshire East	Cheshire	North West	ENG	426,122	14,614	3.4%	9,850	2.3%	5,969	1.4%	12,035	2.8%	3,025	0.7%	54,000	13%	
E06000050	Cheshire West and Chester	Cheshire	North West	ENG	379,971	13,158	3.5%	8,022	2.1%	4,986	1.3%	10,781	2.8%	2,705	0.7%	48,000	13%	
E06000051	Shropshire	Shropshire	West Midlands	ENG	326,581	12,229	3.7%	8,939	2.7%	3,794	1.2%	9,954	3.0%	2,588	0.8%	45,000	14%	
E06000052	Cornwall	Cornwall	South West	ENG	597,934	26,479	4.4%	18,261	3.1%	10,150	1.7%	18,777	3.1%	4,244	0.7%	92,000	16%	
E06000053	Isles of Scilly	Cornwall	South West	ENG	2,393	77	3.2%	53	2.2%	26	1.1%	54	2.3%	19	0.8%	260	11%	
E06000054	Wiltshire	Wiltshire	South West	ENG	510,566	17,673	3.5%	11,435	2.2%	5,878	1.2%	14,627	2.9%	3,082	0.6%	63,000	12%	
E06000055	Bedford	Bedfordshire	East of England	ENG	197,762	5,541	2.8%	3,274	1.7%	2,062	1.0%	3,893	2.0%	942	0.5%	19,000	10%	
E06000056	Central Bedfordshire	Bedfordshire	East of England	ENG	299,619	8,476	2.8%	5,059	1.7%	2,502	0.8%	6,527	2.2%	1,252	0.4%	28,000	9%	
E06000057	Northumberland	Northumberland	North East	ENG	335,876	15,090	4.5%	9,558	2.8%	5,807	1.7%	10,356	3.1%	2,906	0.9%	53,000	16%	
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	ENG	462,688	17,414	3.8%	10,984	2.4%	6,199	1.3%	12,579	2.7%	2,756	0.6%	60,000	15%	
E06000059	Dorset	Dorset	South West	ENG	369,147	17,549	4.8%	10,453	2.8%	5,839	1.6%	14,057	3.8%	2,716	0.7%	61,000	16%	
E06000060	Buckinghamshire	Buckinghamshire	South East	ENG	584,012	17,297	3.0%	10,407	1.8%	5,183	0.9%	14,050	2.4%	2,632	0.5%	60,000	11%	
E06000061	North Northamptonshire	Northamptonshire	East Midlands	ENG	389,258	12,277	3.2%	7,175	1.8%	4,581	1.2%	8,562	2.2%	2,509	0.6%	42,000	12%	
E06000062	West Northamptonshire	Northamptonshire	East Midlands	ENG	446,305	11,403	2.6%	6,929	1.6%	3,546	0.8%	9,312	2.1%	2,205	0.5%	40,000	9%	
E06000063	Cumbria	Cumbria	North West	ENG	285,421	13,493	4.7%	7,676	2.7%	3,999	1.4%	7,928	2.8%	3,004	1.1%	43,000	16%	
E06000064	Westmorland & Furness	Cumbria	North West	ENG	232,815	9,170	3.9%	6,										

Table 2.21 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

[Back to Table of Contents](#) [for content queries contact healthinsights@bhf.org.uk](#)

region/nation tables see 2.11

region/nation tables see 2.11					GP PREVALENCE DATA (PATIENT REGISTERS & PERCENTAGE OF LIST)												BHF Heart & Circulatory Diseases (CVD) Estimate	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Patient List	Coronary Heart Disease Register		Stroke/TIA Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register		Total	% popn	
					(all ages)	Total	%	Total	%	Total	%	Total	%	Total	%			
E07000088	Gosport	Hampshire	South East	ENG	84,493	3,135	3.7%	1,886	2.2%	1,394	1.6%	2,340	2.8%	682	0.8%	11,000	13%	
E07000089	Hart	Hampshire	South East	ENG	108,996	3,195	2.9%	1,954	1.8%	944	0.9%	2,798	2.6%	510	0.5%	11,000	11%	
E07000090	Havant	Hampshire	South East	ENG	130,972	5,185	4.0%	3,268	2.5%	2,127	1.6%	4,073	3.1%	1,030	0.8%	19,000	15%	
E07000091	New Forest	Hampshire	South East	ENG	188,831	8,278	4.4%	5,707	3.0%	3,810	2.0%	7,432	3.9%	1,412	0.7%	32,000	18%	
E07000092	Rushmoor	Hampshire	South East	ENG	110,126	2,738	2.5%	1,681	1.5%	1,269	1.2%	2,117	1.9%	574	0.5%	10,000	10%	
E07000093	Test Valley	Hampshire	South East	ENG	117,619	3,310	2.8%	2,544	2.2%	1,196	1.0%	3,056	2.6%	607	0.5%	13,000	10%	
E07000094	Winchester	Hampshire	South East	ENG	131,305	3,613	2.8%	2,871	2.2%	1,303	1.0%	3,643	2.8%	604	0.5%	14,000	11%	
E07000095	Brosbourne	Hertfordshire	East of England	ENG	107,434	3,017	2.8%	1,864	1.7%	865	0.8%	2,251	2.1%	520	0.5%	10,000	10%	
E07000096	Dacorum	Hertfordshire	East of England	ENG	174,219	4,647	2.7%	2,758	1.6%	1,342	0.8%	3,832	2.2%	863	0.5%	16,000	10%	
E07000098	Hertsmere	Hertfordshire	East of England	ENG	171,340	4,853	2.8%	2,703	1.6%	1,394	0.8%	3,490	2.0%	676	0.4%	16,000	15%	
E07000099	North Hertfordshire	Hertfordshire	East of England	ENG	137,436	3,776	2.7%	2,564	1.9%	946	0.7%	3,171	2.3%	609	0.4%	13,000	10%	
E07000102	Three Rivers	Hertfordshire	East of England	ENG	85,918	2,464	2.9%	1,496	1.7%	752	0.9%	1,966	2.3%	395	0.5%	8,600	9%	
E07000103	Watford	Hertfordshire	East of England	ENG	81,419	1,830	2.2%	1,059	1.3%	493	0.6%	1,094	1.3%	287	0.4%	5,800	6%	
E07000105	Ashford	Kent	South East	ENG	138,250	3,896	2.8%	2,544	1.8%	1,128	0.8%	3,472	2.5%	713	0.5%	14,000	10%	
E07000106	Canterbury	Kent	South East	ENG	185,178	5,174	2.8%	3,641	2.0%	1,342	0.7%	4,699	2.5%	986	0.5%	19,000	12%	
E07000107	Dartford	Kent	South East	ENG	125,695	3,134	2.3%	2,231	1.6%	1,043	0.8%	2,507	1.8%	576	0.4%	11,000	9%	
E07000108	Dover	Kent	South East	ENG	117,614	3,993	3.4%	2,599	2.2%	1,111	0.9%	3,543	3.0%	835	0.7%	15,000	13%	
E07000109	Gravesham	Kent	South East	ENG	136,773	3,411	2.5%	2,195	1.6%	982	0.7%	2,634	1.9%	529	0.4%	12,000	11%	
E07000110	Maldstone	Kent	South East	ENG	185,651	4,951	2.7%	3,394	1.8%	1,636	0.9%	4,342	2.3%	782	0.4%	18,000	10%	
E07000111	Sevenoaks	Kent	South East	ENG	99,604	2,623	2.6%	1,975	2.0%	941	0.9%	2,783	2.8%	498	0.5%	11,000	9%	
E07000112	Folkestone and Hythe	Kent	South East	ENG	114,703	4,104	3.6%	2,656	2.3%	1,264	1.1%	3,761	3.3%	769	0.7%	15,000	14%	
E07000113	Swale	Kent	South East	ENG	145,816	4,345	3.0%	2,517	1.7%	1,559	1.1%	3,220	2.2%	814	0.6%	15,000	10%	
E07000114	Thanet	Kent	South East	ENG	152,215	5,306	3.5%	3,593	2.4%	1,623	1.1%	4,416	2.9%	1,216	0.8%	19,000	14%	
E07000115	Tonbridge and Malling	Kent	South East	ENG	140,878	3,677	2.6%	2,488	1.8%	1,273	0.9%	3,475	2.5%	695	0.5%	14,000	10%	
E07000116	Tunbridge Wells	Kent	South East	ENG	128,473	3,145	2.4%	2,567	2.0%	1,090	0.8%	3,200	2.5%	601	0.5%	13,000	11%	
E07000117	Burnley	Lancashire	North West	ENG	104,312	3,847	3.7%	2,114	2.0%	945	0.9%	2,210	2.1%	979	0.9%	12,000	13%	
E07000118	Chorley	Lancashire	North West	ENG	119,931	4,506	3.8%	2,482	2.1%	1,514	1.3%	3,052	2.5%	927	0.8%	15,000	13%	
E07000119	Fylde	Lancashire	North West	ENG	74,153	3,554	4.8%	2,116	2.9%	1,378	1.9%	2,687	3.6%	671	0.9%	12,000	14%	
E07000120	Hyndburn	Lancashire	North West	ENG	80,270	3,173	4.0%	1,739	2.2%	824	1.0%	1,704	2.1%	841	1.0%	10,000	12%	
E07000121	Lancaster	Lancashire	North West	ENG	162,100	5,562	3.4%	3,583	2.2%	1,355	0.8%	3,852	2.4%	1,527	0.9%	19,000	13%	
E07000122	Pendle	Lancashire	North West	ENG	98,843	3,571	3.6%	1,957	2.0%	1,022	1.0%	1,958	2.0%	777	0.8%	11,000	11%	
E07000123	Preston	Lancashire	North West	ENG	150,319	4,497	3.0%	2,667	1.8%	1,988	1.3%	2,673	1.8%	1,033	0.7%	15,000	10%	
E07000124	Ribble Valley	Lancashire	North West	ENG	63,492	2,249	3.5%	1,395	2.2%	795	1.3%	1,824	2.9%	426	0.7%	8,000	13%	
E07000125	Rossendale	Lancashire	North West	ENG	73,994	2,615	3.5%	1,563	2.1%	651	0.9%	1,624	2.2%	673	0.9%	8,700	12%	
E07000126	South Ribble	Lancashire	North West	ENG	124,609	4,314	3.5%	2,518	2.0%	1,764	1.4%	3,202	2.6%	857	0.7%	15,000	13%	
E07000127	West Lancashire	Lancashire	North West	ENG	116,852	4,334	3.7%	2,543	2.2%	1,462	1.3%	3,209	2.7%	802	0.7%	15,000	13%	
E07000128	Wyre	Lancashire	North West	ENG	110,090	5,288	4.8%	3,130	2.8%	2,122	1.9%	3,728	3.4%	1,126	1.0%	18,000	16%	
E07000129	Blaby	Leicestershire	East Midlands	ENG	103,578	3,155	3.0%	2,010	1.9%	1,432	1.4%	2,570	2.5%	481	0.5%	11,000	11%	
E07000130	Charnwood	Leicestershire	East Midlands	ENG	201,297	5,385	2.7%	3,501	1.7%	2,447	1.2%	4,449	2.2%	1,060	0.5%	20,000	11%	
E07000131	Harborough	Leicestershire	East Midlands	ENG	94,552	2,765	2.9%	1,938	2.0%	1,062	1.1%	2,646	2.8%	434	0.5%	11,000	11%	
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	ENG	111,135	3,397	3.1%	2,360	2.1%	1,814	1.6%	2,888	2.6%	645	0.6%	13,000	11%	
E07000133	Melton	Leicestershire	East Midlands	ENG	54,713	1,804	3.3%	1,136	2.1%	857	1.6%	1,617	3.0%	390	0.7%	7,000	13%	
E07000134	North West Leicestershire	Leicestershire	East Midlands	ENG	115,944	3,492	3.0%	2,276	2.0%	1,781	1.5%	2,972	2.6%	615	0.5%	13,000	12%	
E07000135	Oadby and Wigston	Leicestershire	East Midlands	ENG	65,982	1,973	3.0%	1,277	1.9%	944	1.4%	1,561	2.4%	315	0.5%	7,400	13%	
E07000136	Boston	Lincolnshire	East Midlands	ENG	89,799	3,070	3.4%	1,947	2.2%	1,090	1.2%	2,057	2.3%	556	0.6%	11,000	16%	
E07000137	East Lindsey	Lincolnshire	East Midlands	ENG	150,784	8,074	5.4%	4,890	3.2%	3,044	2.0%	5,685	3.8%	1,418	0.9%	28,000	19%	
E07000138	Lincoln	Lincolnshire	East Midlands	ENG	117,632	3,112	2.6%	1,946	1.7%	1,005	0.9%	2,174	1.8%	547	0.5%	11,000	11%	
E07000139	North Kesteven	Lincolnshire	East Midlands	ENG	101,096	3,889	3.8%	2,270	2.2%	1,340	1.3%	2,870	2.8%	565	0.6%	13,000	11%	
E07000140	South Holland	Lincolnshire	East Midlands	ENG	98,055	3,893	4.0%	2,430	2.5%	1,816	1.9%	2,806	2.9%	674	0.7%	14,000	14%	
E07000141	South Kesteven	Lincolnshire	East Midlands	ENG	162,953	6,358	3.9%	3,659	2.2%	2,770	1.7%	4,650	2.9%	1,043	0.6%	23,000	16%	
E07000142	West Lindsey	Lincolnshire	East Midlands	ENG	82,791	3,476	4.2%	2,021	2.4%	1,159	1.4%	2,420	2.9%	625	0.8%	12,000	12%	
E07000143	Breckland	Norfolk	East of England	ENG	143,794	5,381	3.7%	3,441	2.4%	1,565	1.1%	4,289	3.0%	914	0.6%	19,000	13%	
E07000144	Broadland	Norfolk	East of England	ENG	114,215	3,944	3.5%	2,627	2.3%	1,044	0.9%	3,358	2.9%	672	0.6%	14,000	10%	
E07000145	Great Yarmouth	Norfolk	East of England	ENG	109,720	4,338	4.0%	2,834	2.6%	1,394	1.3%	2,833	2.6%	948	0.9%	14,000	14%	
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	ENG	156,590	6,518	4.2%	4,515	2.9%	1,773	1.1%	5,098	3.3%	957	0.6%	22,000	14%	
E07000147	North Norfolk	Norfolk	East of England	ENG	106,024	5,074	4.8%	3,372	3.2%	1,423	1.3%	4,388	4.1%	818	0.8%	18,000	17%	
E07000148	Norwich	Norfolk	East of England	ENG	180,507	4,382	2.4%	3,078	1.7%	1,282	0.7%	3,145	1.7%	864	0.5%	16,000	11%	
E07000149	South Norfolk	Norfolk	East of England	ENG	144,401	4,813	3.3%	3,189	2.2%	1,156	0.8%	3,914	2.7%	710	0.5%	17,000	12%	
E07000170	Ashfield	Nottinghamshire	East Midlands	ENG	130,426	4,666	3.6%	2,828	2.2%	1,646	1.3%	2,916	2.2%	854	0.7%	16,000	13%	
E07000171	Bassetlaw	Nottinghamshire	East Midlands	ENG	120,589	4,182	3.5%	2,636	2.2%	1,746	1.4%	3,449	2.9%	1,040	0.9%	16,000	13%	
E07000172	Broxtowe	Nottinghamshire	East Midlands	ENG														

Table 2.21 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

[Back to Table of Contents](#) [for content queries contact healthinsights@bhf.org.uk.](#)

region/nation tables see 2.11

region/nation tables see 2.11					GP PREVALENCE DATA (PATIENT REGISTERS & PERCENTAGE OF LIST)										BHF Heart & Circulatory Diseases (CVD) Estimate	
					Patient List (all ages)	Coronary Heart Disease Register		Stroke/TIA Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register		
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Total	%	Total	%	Total	%	Total	%	Total	%	Total	% popn
E07000241	Welwyn Hatfield	Hertfordshire	East of England	ENG	139,688	3,366 2.4%	2,297 1.6%	935 0.7%	2,816 2.0%	603 0.4%	12,000	10%				
E07000242	East Hertfordshire	Hertfordshire	East of England	ENG	154,878	4,132 2.7%	2,580 1.7%	1,328 0.9%	3,452 2.2%	714 0.5%	15,000	10%				
E07000243	Stevenage	Hertfordshire	East of England	ENG	101,452	2,545 2.5%	1,665 1.6%	765 0.8%	1,791 1.8%	427 0.4%	8,500	9%				
E07000244	East Suffolk	Suffolk	East of England	ENG	245,643	10,509 4.3%	6,386 2.6%	3,896 1.6%	8,236 3.4%	1,921 0.8%	37,000	15%				
E07000245	West Suffolk	Suffolk	East of England	ENG	200,336	6,623 3.3%	3,926 2.0%	2,418 1.2%	5,336 2.7%	1,183 0.6%	23,000	13%				
E08000001	Bolton	Greater Manchester	North West	ENG	323,801	9,380 2.9%	6,265 1.9%	2,680 0.8%	5,939 1.8%	1,890 0.6%	32,000	11%				
E08000002	Bury	Greater Manchester	North West	ENG	209,717	6,580 3.1%	4,173 2.0%	2,418 1.2%	4,350 2.1%	1,321 0.6%	22,000	11%				
E08000003	Manchester	Greater Manchester	North West	ENG	716,787	15,064 2.1%	8,662 1.2%	4,778 0.7%	7,530 1.1%	4,047 0.6%	49,000	9%				
E08000004	Oldham	Greater Manchester	North West	ENG	252,562	7,415 2.9%	4,689 1.9%	2,364 0.9%	4,205 1.7%	1,850 0.7%	25,000	10%				
E08000005	Rochdale	Greater Manchester	North West	ENG	245,247	7,967 3.2%	4,789 2.0%	2,447 1.0%	4,451 1.8%	2,006 0.8%	26,000	11%				
E08000006	Salford	Greater Manchester	North West	ENG	317,006	8,773 2.8%	5,327 1.7%	2,549 0.8%	5,358 1.7%	2,298 0.7%	29,000	10%				
E08000007	Stockport	Greater Manchester	North West	ENG	323,883	11,435 3.5%	7,208 2.2%	3,911 1.2%	7,759 2.4%	2,177 0.7%	40,000	13%				
E08000008	Tameside	Greater Manchester	North West	ENG	233,606	8,588 3.7%	4,747 2.0%	2,524 1.1%	4,661 2.0%	1,942 0.8%	27,000	12%				
E08000009	Trafford	Greater Manchester	North West	ENG	247,576	7,836 3.2%	4,887 2.0%	2,467 1.0%	5,809 2.3%	1,542 0.6%	27,000	11%				
E08000010	Wigan	Greater Manchester	North West	ENG	335,672	12,720 3.8%	7,102 2.1%	3,956 1.2%	8,097 2.4%	2,483 0.7%	42,000	13%				
E08000011	Knowsley	Merseyside	North West	ENG	165,213	6,530 4.0%	3,239 2.0%	1,886 1.1%	3,636 2.2%	1,562 0.9%	20,000	13%				
E08000012	Liverpool	Merseyside	North West	ENG	588,277	18,708 3.2%	10,400 1.8%	6,387 1.1%	11,378 1.9%	4,193 0.7%	61,000	12%				
E08000013	St. Helens	Merseyside	North West	ENG	200,661	8,399 4.2%	4,283 2.1%	2,331 1.2%	5,560 2.8%	1,695 0.8%	27,000	15%				
E08000014	Sefton	Merseyside	North West	ENG	280,078	11,420 4.1%	6,840 2.4%	4,193 1.5%	8,767 3.1%	2,233 0.8%	40,000	14%				
E08000015	Wirral	Merseyside	North West	ENG	341,581	13,146 3.8%	8,001 2.3%	5,368 1.6%	10,610 3.1%	2,760 0.8%	48,000	15%				
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	267,540	10,944 4.1%	6,207 2.3%	3,569 1.3%	6,485 2.4%	2,670 1.0%	35,000	14%				
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	335,556	10,723 3.2%	7,033 2.1%	4,089 1.2%	8,002 2.4%	2,518 0.8%	39,000	13%				
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	269,670	10,246 3.8%	6,258 2.3%	2,806 1.0%	6,581 2.4%	1,932 0.7%	33,000	12%				
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire & The Humber	ENG	630,602	19,683 3.1%	13,468 2.1%	7,429 1.2%	13,188 2.1%	4,007 0.6%	70,000	12%				
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	ENG	343,312	9,330 2.7%	6,003 1.7%	2,928 0.9%	5,636 1.6%	2,454 0.7%	32,000	10%				
E08000022	North Tyneside	Tyne & Wear	North East	ENG	219,281	8,561 3.9%	5,714 2.6%	3,361 1.5%	5,385 2.5%	1,878 0.9%	30,000	14%				
E08000023	South Tyneside	Tyne & Wear	North East	ENG	159,173	6,500 4.1%	3,493 2.2%	2,576 1.6%	4,091 2.6%	1,471 0.9%	22,000	15%				
E08000024	Sunderland	Tyne & Wear	North East	ENG	290,120	12,773 4.4%	6,577 2.3%	3,451 1.2%	7,533 2.6%	2,501 0.9%	40,000	14%				
E08000025	Birmingham	West Midlands	West Midlands	ENG	1,357,508	34,992 2.6%	18,755 1.4%	9,920 0.7%	18,625 1.4%	5,512 0.4%	110,000	10%				
E08000026	Coventry	West Midlands	West Midlands	ENG	444,825	9,244 2.1%	6,196 1.4%	3,274 0.7%	6,361 1.4%	2,121 0.5%	32,000	9%				
E08000027	Dudley	West Midlands	West Midlands	ENG	334,198	13,327 4.0%	6,593 2.0%	3,544 1.1%	8,733 2.6%	1,879 0.6%	41,000	13%				
E08000028	Sandwell	West Midlands	West Midlands	ENG	370,183	12,936 3.5%	5,817 1.6%	3,537 1.0%	6,078 1.6%	1,975 0.5%	37,000	11%				
E08000029	Solihull	West Midlands	West Midlands	ENG	236,075	7,066 3.0%	4,558 1.9%	2,251 1.0%	5,510 2.3%	1,225 0.5%	25,000	11%				
E08000030	Walsall	West Midlands	West Midlands	ENG	301,727	11,341 3.8%	5,490 1.8%	3,361 1.1%	6,531 2.2%	1,851 0.6%	34,000	12%				
E08000031	Wolverhampton	West Midlands	West Midlands	ENG	300,723	8,636 2.9%	5,214 1.7%	3,352 1.1%	5,421 1.8%	1,609 0.5%	29,000	11%				
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	633,810	19,532 3.1%	11,169 1.8%	6,267 1.0%	10,874 1.7%	4,121 0.7%	59,000	11%				
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	223,543	7,696 3.4%	4,654 2.1%	2,175 1.0%	4,795 2.1%	1,686 0.8%	25,000	12%				
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	454,880	14,874 3.3%	8,756 1.9%	4,231 0.9%	8,692 1.9%	3,366 0.7%	48,000	11%				
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	920,638	24,209 2.6%	15,947 1.7%	9,329 1.0%	16,342 1.8%	5,569 0.6%	86,000	10%				
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire & The Humber	ENG	392,391	13,572 3.5%	8,621 2.2%	3,791 1.0%	8,950 2.3%	2,736 0.7%	46,000	13%				
E09000037	Gateshead	Tyne & Wear	North East	ENG	210,888	7,862 3.7%	5,160 2.4%	2,555 1.2%	5,214 2.5%	1,870 0.9%	27,000	14%				
E09000001	City of London	Greater London	London	ENG	9,872	175 1.8%	100 1.0%	59 0.6%	143 1.4%	32 0.3%	630	6%				
E09000002	Barking and Dagenham	Greater London	London	ENG	267,393	4,403 1.6%	2,672 1.0%	1,278 0.5%	2,445 0.9%	732 0.3%	14,000	6%				
E09000003	Barnet	Greater London	London	ENG	435,423	10,385 2.4%	5,865 1.3%	2,966 0.7%	6,542 1.5%	1,329 0.3%	32,000	8%				
E09000004	Bexley	Greater London	London	ENG	252,993	6,528 2.6%	4,202 1.7%	2,094 0.8%	4,886 1.9%	1,048 0.4%	23,000	9%				
E09000005	Brent	Greater London	London	ENG	516,565	9,335 1.8%	5,370 1.0%	3,221 0.6%	4,219 0.8%	2,190 0.4%	28,000	8%				
E09000006	Bromley	Greater London	London	ENG	355,622	9,394 2.6%	5,600 1.6%	2,446 0.7%	7,533 2.1%	1,307 0.4%	32,000	10%				
E09000007	Camden	Greater London	London	ENG	317,337	4,415 1.4%	2,792 0.9%	1,821 0.6%	3,216 1.0%	941 0.3%	16,000	7%				
E09000008	Croydon	Greater London	London	ENG	439,906	9,311 2.1%	5,841 1.3%	2,706 0.6%	5,722 1.3%	1,437 0.3%	30,000	8%				
E09000009	Ealing	Greater London	London	ENG	470,668	11,416 2.4%	5,200 1.1%	3,054 0.6%	5,446 1.2%	1,322 0.3%	32,000	9%				
E09000010	Enfield	Greater London	London	ENG	360,813	7,941 2.2%	4,328 1.2%	2,416 0.7%	4,677 1.3%	1,174 0.3%	25,000	8%				
E09000011	Greenwich	Greater London	London	ENG	315,696	5,780 1.8%	3,689 1.2%	1,816 0.6%	3,420 1.1%	1,122 0.4%	19,000	7%				
E09000012	Hackney	Greater London	London	ENG	353,997	5,651 1.6%	3,194 0.9%	2,377 0.7%	2,628 0.7%	1,112 0.3%	18,000	7%				
E09000013	Hammersmith and Fulham	Greater London	London	ENG	346,286	4,100 1.2%	2,873 0.8%	1,180 0.3%	2,715 0.8%	1,109 0.3%	14,000	8%				
E09000014	Haringey	Greater London	London	ENG	334,488	5,266 1.6%	3,361 1.0%	1,847 0.6%	3,335 1.0%	908 0.3%	17,000	6%				
E09000015	Harrow	Greater London	London	ENG	279,338	7,451 2.7%	3,799 1.4%	2,377 0.9%	3,756 1.3%	1,261 0.5%	22,000	8%				
E09000016	Havering	Greater London	London	ENG	268,320	6,316 2.4%	4,356 1.6%	2,030 0.8%	5,206 1.9%	1,147 0.4%	23,000	9%				
E09000017	Hillingdon	Greater London	London	ENG	339,288	8,065 2.4%	4,306 1.3%	2,297 0.7%	5,010 1.5%	1,779 0.5%	25,000	8%				
E09000018	Hounslow	Greater London	London	ENG	332,266	7,558 2.3%	3,802 1.1%	1,983 0.6%	3,493 1.1%	949 0.3%	21,000	7%				
E09000019	Islington	Greater London	London	ENG	291,096	3,819 1.3%	2,680 0.9%	1,414 0.5%	2,608 0.9%	953 0.3%	14,000	6%				
E09000020	Kensington and Chelsea	Greater London	London	ENG	235,758	3,755 1.6%	2,508 1.1%	1,026 0.4%	3,152 1.3%	879 0.4%	13,000	9%				
E09000021	Kingston upon Thames	Greater London	London	ENG	218,814	4,409 2.0%	2,501 1.1%	1,424 0.7%	3,416 1.6%	654 0.3%	14,000	8%				
E09000022	Lambeth	Greater London	London	ENG	431,371	4,994 1.2%	4,020 0.9%	1,966 0.5%	3,316 0.8%	1,194 0.3%	19,000	6%				
E09000023	Lewisham	Greater London	London	ENG	354,158	5,617 1.6%	4,063 1.1%	1,908 0.5%	3,290 0.9%	1,389 0.4%	19,000	6%				
E09000024	Merton	Greater London	London	ENG	242,429	4,482 1.8%	2,566 1.1%	1,449 0.6%	2,960 1.2%	759 0.3%	15,000	7%				
E09000025	Newham	Greater London	London	ENG	452,787	7,297 1.6%	3,544 0.8%	2,308 0.5%	2,391 0.5%	841 0.2%	19,000	5%				
E09000026	Redbridge	Greater London	London	ENG	366,997	7,959 2.2%	3,920 1.1%	1,805 0.5%	3,770 1.0%	816 0.2%	22,000	7%				
E09000027	Richmond upon Thames	Greater London	London	ENG	241,817	4,755 2.0%	3,112 1.3%	1,399 0.6%	4,180 1.7%	631 0.3%	17,000	9%				
E09000028	Southwark	Greater														

Table 2.21 Prevalence of cardiovascular conditions from GP patient registers, by UK local authority, latest available

[Back to Table of Contents](#) for content queries contact healthinsights@bhf.org.uk.

region/nation tables see 2.11

region/nation tables see 2.11					GP PREVALENCE DATA (PATIENT REGISTERS & PERCENTAGE OF LIST)												BHF Heart & Circulatory Diseases (CVD) Estimate	
LA Code	LA/DC/UA	Ceremonial County (Eng/Wal)	Region/Nation	4N	Patient List (all ages)	Coronary Heart Disease Register		Stroke/TIA Register		Heart Failure Register		Atrial Fibrillation Register		PAD Register		Total		
						Total	%	Total	%	Total	%	Total	%	Total	%	Total	% popn	
S12000042	Dundee City		Scotland	SCO	162,650	6,178	3.8%	3,857	2.4%	1,711	1.1%	2,954	1.8%	1,799	1.1%	21,000	14%	
S12000045	East Dunbartonshire		Scotland	SCO	107,645	4,359	4.0%	2,526	2.3%	1,032	1.0%	2,626	2.4%	606	0.6%	15,000	14%	
S12000047	Fife		Scotland	SCO	383,447	14,913	3.9%	9,670	2.5%	3,068	0.8%	6,968	1.8%	3,690	1.0%	50,000	13%	
S12000048	Perth and Kinross		Scotland	SCO	148,293	5,741	3.9%	3,859	2.6%	1,398	0.9%	3,782	2.6%	1,214	0.8%	21,000	14%	
S12000049	Glasgow City		Scotland	SCO	728,969	24,945	3.4%	14,482	2.0%	6,047	0.8%	10,282	1.4%	5,299	0.7%	80,000	13%	
S12000050	North Lanarkshire		Scotland	SCO	348,341	14,667	4.2%	7,520	2.2%	2,373	0.7%	5,953	1.7%	2,835	0.8%	44,000	13%	
W06000001	Isle of Anglesey / Ynys Môn	Gwynedd	Wales / Cymru	WAL	66,219	2,548	3.8%	1,751	2.6%	811	1.2%	1,880	2.8%			7,800	11%	
W06000002	Gwynedd	Gwynedd	Wales / Cymru	WAL	123,237	3,835	3.1%	2,488	2.0%	1,286	1.0%	3,041	2.5%			12,000	10%	
W06000003	Conwy	Clwyd	Wales / Cymru	WAL	116,695	4,892	4.2%	2,912	2.5%	1,542	1.3%	3,386	2.9%			14,000	12%	
W06000004	Denbighshire / Sir Ddinbych	Clwyd	Wales / Cymru	WAL	113,259	4,591	4.1%	2,558	2.3%	1,453	1.3%	3,192	2.8%			13,000	13%	
W06000005	Flintshire / Sir y Fflint	Clwyd	Wales / Cymru	WAL	154,855	5,448	3.5%	3,013	1.9%	1,668	1.1%	3,848	2.5%			16,000	10%	
W06000006	Wrexham / Wrecsam	Clwyd	Wales / Cymru	WAL	137,224	4,651	3.4%	2,818	2.1%	1,502	1.1%	3,273	2.4%			14,000	10%	
W06000008	Ceredigion	Dyfed	Wales / Cymru	WAL	94,095	3,558	3.8%	2,060	2.2%	1,342	1.4%	2,757	2.9%			11,000	15%	
W06000009	Pembrokeshire / Sir Benfro	Dyfed	Wales / Cymru	WAL	122,651	4,587	3.7%	3,063	2.5%	1,459	1.2%	4,094	3.3%			15,000	12%	
W06000010	Cardiganshire / Sir Gaerfyrddin	Dyfed	Wales / Cymru	WAL	176,646	7,360	4.2%	4,363	2.5%	2,281	1.3%	5,442	3.1%			22,000	12%	
W06000011	Swansea / Abertawe	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	256,977	8,295	3.2%	5,484	2.1%	3,409	1.3%	6,199	2.4%			26,000	11%	
W06000012	Neath/Castell-nedd Port Talbot	West Glamorgan / Gorllewin Morgannwg	Wales / Cymru	WAL	146,992	5,538	3.8%	3,357	2.3%	2,201	1.5%	3,846	2.6%			17,000	12%	
W06000013	Bridgend / Pen-y-bont ar Ogwr	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	165,497	6,328	3.8%	4,481	2.7%	2,140	1.3%	4,501	2.7%			19,000	13%	
W06000014	Vale of Glamorgan / Bro Morgannwg	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	140,027	4,434	3.2%	3,034	2.2%	1,745	1.2%	3,474	2.5%			14,000	10%	
W06000015	Cardiff / Caerdydd	South Glamorgan / De Morgannwg	Wales / Cymru	WAL	403,747	9,644	2.4%	6,263	1.6%	3,836	1.0%	6,570	1.6%			29,000	8%	
W06000016	Rhondda Cynon Taf	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	251,307	9,065	3.6%	5,262	2.1%	2,244	0.9%	6,070	2.4%			25,000	10%	
W06000018	Caerphilly / Caerffili	Gwent	Wales / Cymru	WAL	187,409	6,704	3.6%	3,710	2.0%	1,715	0.9%	4,189	2.2%			18,000	10%	
W06000019	Blaenau Gwent	Gwent	Wales / Cymru	WAL	79,487	3,181	4.0%	1,725	2.2%	1,156	1.5%	1,791	2.3%			8,700	13%	
W06000020	Torfaen / Tor-faen	Gwent	Wales / Cymru	WAL	97,878	3,603	3.7%	2,057	2.1%	1,119	1.1%	2,406	2.5%			10,000	11%	
W06000021	Monmouthshire / Sir Fynwy	Gwent	Wales / Cymru	WAL	103,734	3,744	3.6%	2,644	2.5%	1,672	1.6%	3,257	3.1%			13,000	14%	
W06000022	Newport / Casnewydd	Gwent	Wales / Cymru	WAL	163,987	4,715	2.9%	2,829	1.7%	1,353	0.8%	3,112	1.9%			13,000	8%	
W06000023	Powys	Powys	Wales / Cymru	WAL	141,745	5,761	4.1%	3,914	2.8%	2,087	1.5%	4,376	3.1%			18,000	13%	
W06000024	Merthyr Tydfil / Merthyr Tudful	Mid Glamorgan / Morgannwg Ganol	Wales / Cymru	WAL	61,683	2,137	3.5%	1,284	2.1%	622	1.0%	1,431	2.3%			6,100	10%	

Notes:

TIA = transient ischaemic attacks; PAD = peripheral arterial disease

Local authorities updated to April 2023

region/nation totals see Table 2.11

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

With BHF analysis - adjustments have been made where active practices did not file patient data in the latest available year (previous data features instead)

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

- CVD estimate shows percentage of population (latest ONS/NRS/NISRA estimates) and not a proportion of the list size

Citation:

BHF (2024) Analysis of UK GP patient register data [CVD = BHF 2023 & 2024 estimates]

Source:

England - NHS England - Quality & Outcomes Framework (QOF) prevalence data 2022/23 [accessed Nov 2023]

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

Wales - StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2021/22 [accessed Nov 2023]

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

Scotland - Public Health Scotland. GP prevalence data 2018/19 [no updates as of Feb 2024]

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

Northern Ireland - Department of Health, Quality & Outcomes Framework (QOF) prevalence data 2023/24 [accessed July 2024]

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

Table 2.22 Prevalence of selected cardiovascular conditions by sex, England 2003 to 2017

[Back to Table of Contents](#)

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

Notes:

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

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

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

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

Citation:

BHF (2018) Analysis of NHS survey data

Source:

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

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

Table 2.23 Prevalence of selected cardiovascular conditions by age group, England 2003 to 2017[Back to Table of Contents](#)for content queries contact healthinsights@bhf.org.uk

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

Notes:

For all adults aged 16 years and over.

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

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

Data have been weighted for non-response.

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

Citation:

BHF (2018) Analysis of NHS survey data

Source:

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

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

Table 2.24 Prevalence of cardiovascular conditions by local authority, GP survey data, England 2021
[Back to Table of Contents](#)

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LA Code	LA Name	County	Region	%
E06000032	Luton	Bedfordshire	East of England	6.2
E06000055	Bedford	Bedfordshire	East of England	14.4
E06000056	Central Bedfordshire	Bedfordshire	East of England	6.4
E06000036	Bracknell Forest	Berkshire	South East	7.9
E06000037	West Berkshire	Berkshire	South East	6.1
E06000038	Reading	Berkshire	South East	4.8
E06000039	Slough	Berkshire	South East	4.0
E06000040	Windsor and Maidenhead	Berkshire	South East	4.8
E06000041	Wokingham	Berkshire	South East	9.8
E06000023	Bristol, City of	Bristol	South West	7.1
E06000042	Milton Keynes	Buckinghamshire	South East	6.1
E06000060	Buckinghamshire	Buckinghamshire	South East	6.6
E06000031	Peterborough	Cambridgeshire	East of England	29.8
E07000008	Cambridge	Cambridgeshire	East of England	6.3
E07000009	East Cambridgeshire	Cambridgeshire	East of England	8.3
E07000010	Fenland	Cambridgeshire	East of England	8.7
E07000011	Huntingdonshire	Cambridgeshire	East of England	7.7
E07000012	South Cambridgeshire	Cambridgeshire	East of England	7.0
E06000006	Halton	Cheshire	North West	6.9
E06000007	Warrington	Cheshire	North West	6.7
E06000049	Cheshire East	Cheshire	North West	9.9
E06000050	Cheshire West and Chester	Cheshire	North West	6.4
E06000052	Cornwall	Cornwall	South West	8.5
E06000001	Hartlepool	County Durham	North East	7.4
E06000005	Darlington	County Durham	North East	5.5
E06000047	County Durham	County Durham	North East	8.4
E06000004	Stockton-on-Tees	County Durham (part North Yorkshire)	North East	8.5
E07000026	Allerdale	Cumbria	North West	4.8
E07000027	Barrow-in-Furness	Cumbria	North West	5.1
E07000028	Carlisle	Cumbria	North West	7.3
E07000029	Copeland	Cumbria	North West	7.5
E07000030	Eden	Cumbria	North West	4.7
E07000031	South Lakeland	Cumbria	North West	4.8
E06000015	Derby	Derbyshire	East Midlands	6.8
E07000032	Amber Valley	Derbyshire	East Midlands	7.7
E07000033	Bolsover	Derbyshire	East Midlands	8.9
E07000034	Chesterfield	Derbyshire	East Midlands	10.0
E07000035	Derbyshire Dales	Derbyshire	East Midlands	4.7
E07000036	Erewash	Derbyshire	East Midlands	5.8
E07000037	High Peak	Derbyshire	East Midlands	4.9
E07000038	North East Derbyshire	Derbyshire	East Midlands	6.3
E07000039	South Derbyshire	Derbyshire	East Midlands	6.7
E06000026	Plymouth	Devon	South West	10.5
E06000027	Torbay	Devon	South West	13.4
E07000040	East Devon	Devon	South West	8.2
E07000041	Exeter	Devon	South West	10.7
E07000042	Mid Devon	Devon	South West	6.8
E07000043	North Devon	Devon	South West	9.5
E07000044	South Hams	Devon	South West	4.5
E07000045	Teignbridge	Devon	South West	8.1
E07000046	Torridge	Devon	South West	6.7
E07000047	West Devon	Devon	South West	8.0
E06000058	Bournemouth, Christchurch and Poole	Dorset	South West	10.1
E06000059	Dorset	Dorset	South West	9.4
E06000043	Brighton and Hove	East Sussex	South East	4.7
E07000061	Eastbourne	East Sussex	South East	8.2
E07000062	Hastings	East Sussex	South East	7.4
E07000063	Lewes	East Sussex	South East	8.3
E07000064	Rother	East Sussex	South East	9.2
E07000065	Wealden	East Sussex	South East	5.2
E06000033	Southend-on-Sea	Essex	East of England	4.4
E06000034	Thurrock	Essex	East of England	2.8
E07000066	Basildon	Essex	East of England	4.9
E07000067	Braintree	Essex	East of England	6.7
E07000068	Brentwood	Essex	East of England	5.5
E07000069	Castle Point	Essex	East of England	5.5
E07000070	Chelmsford	Essex	East of England	7.3
E07000071	Colchester	Essex	East of England	10.1

Table 2.24 Prevalence of cardiovascular conditions by local authority, GP survey data, England 2021

[Back to Table of Contents](#)

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LA Code	LA Name	County	Region	%
E07000072	Epping Forest	Essex	East of England	6.2
E07000073	Harlow	Essex	East of England	8.1
E07000074	Maldon	Essex	East of England	6.7
E07000075	Rochford	Essex	East of England	8.4
E07000076	Tendring	Essex	East of England	8.1
E07000077	Uttlesford	Essex	East of England	5.6
E06000025	South Gloucestershire	Gloucestershire	South West	7.5
E07000078	Cheltenham	Gloucestershire	South West	5.2
E07000079	Cotswold	Gloucestershire	South West	8.4
E07000080	Forest of Dean	Gloucestershire	South West	4.4
E07000081	Gloucester	Gloucestershire	South West	15.7
E07000082	Stroud	Gloucestershire	South West	4.7
E07000083	Tewkesbury	Gloucestershire	South West	7.1
E09000002	Barking and Dagenham	Greater London	London	2.2
E09000003	Barnet	Greater London	London	4.3
E09000004	Bexley	Greater London	London	5.2
E09000005	Brent	Greater London	London	3.2
E09000006	Bromley	Greater London	London	5.9
E09000007	Camden	Greater London	London	3.5
E09000008	Croydon	Greater London	London	4.3
E09000009	Ealing	Greater London	London	2.8
E09000010	Enfield	Greater London	London	4.4
E09000011	Greenwich	Greater London	London	3.6
E09000012	Hackney	Greater London	London	3.0
E09000013	Hammersmith and Fulham	Greater London	London	3.0
E09000014	Haringey	Greater London	London	4.2
E09000015	Harrow	Greater London	London	4.5
E09000016	Havering	Greater London	London	5.1
E09000017	Hillingdon	Greater London	London	3.4
E09000018	Hounslow	Greater London	London	2.6
E09000019	Islington	Greater London	London	3.2
E09000020	Kensington and Chelsea	Greater London	London	5.1
E09000021	Kingston upon Thames	Greater London	London	4.2
E09000022	Lambeth	Greater London	London	4.1
E09000023	Lewisham	Greater London	London	3.4
E09000024	Merton	Greater London	London	4.8
E09000025	Newham	Greater London	London	2.9
E09000026	Redbridge	Greater London	London	4.4
E09000027	Richmond upon Thames	Greater London	London	4.4
E09000028	Southwark	Greater London	London	9.2
E09000029	Sutton	Greater London	London	4.7
E09000030	Tower Hamlets	Greater London	London	3.1
E09000031	Waltham Forest	Greater London	London	3.3
E09000032	Wandsworth	Greater London	London	4.0
E09000033	Westminster	Greater London	London	4.8
E08000001	Bolton	Greater Manchester	North West	5.0
E08000002	Bury	Greater Manchester	North West	6.5
E08000003	Manchester	Greater Manchester	North West	4.4
E08000004	Oldham	Greater Manchester	North West	4.2
E08000005	Rochdale	Greater Manchester	North West	4.3
E08000006	Salford	Greater Manchester	North West	5.0
E08000007	Stockport	Greater Manchester	North West	6.1
E08000008	Tameside	Greater Manchester	North West	5.7
E08000009	Trafford	Greater Manchester	North West	5.0
E08000010	Wigan	Greater Manchester	North West	4.1
E06000044	Portsmouth	Hampshire	South East	12.8
E06000045	Southampton	Hampshire	South East	5.9
E07000084	Basingstoke and Deane	Hampshire	South East	9.5
E07000085	East Hampshire	Hampshire	South East	6.2
E07000086	Eastleigh	Hampshire	South East	6.1
E07000087	Fareham	Hampshire	South East	6.1
E07000088	Gosport	Hampshire	South East	16.7
E07000089	Hart	Hampshire	South East	10.4
E07000090	Havant	Hampshire	South East	10.2
E07000091	New Forest	Hampshire	South East	11.1
E07000092	Rushmoor	Hampshire	South East	4.8
E07000093	Test Valley	Hampshire	South East	7.6
E07000094	Winchester	Hampshire	South East	6.6

Table 2.24 Prevalence of cardiovascular conditions by local authority, GP survey data, England 2021
[Back to Table of Contents](#)

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LA Code	LA Name	County	Region	%
E06000019	Herefordshire, County of	Herefordshire	West Midlands	10.7
E07000095	Broxbourne	Hertfordshire	East of England	5.4
E07000096	Dacorum	Hertfordshire	East of England	7.8
E07000098	Hertsmere	Hertfordshire	East of England	8.2
E07000099	North Hertfordshire	Hertfordshire	East of England	5.1
E07000102	Three Rivers	Hertfordshire	East of England	4.6
E07000103	Watford	Hertfordshire	East of England	4.6
E07000240	St Albans	Hertfordshire	East of England	6.6
E07000241	Welwyn Hatfield	Hertfordshire	East of England	8.1
E07000242	East Hertfordshire	Hertfordshire	East of England	9.6
E07000243	Stevenage	Hertfordshire	East of England	7.1
E06000046	Isle of Wight	Isle of Wight	South East	9.9
E06000035	Medway	Kent	South East	6.5
E07000105	Ashford	Kent	South East	9.2
E07000106	Canterbury	Kent	South East	16.9
E07000107	Dartford	Kent	South East	7.7
E07000108	Dover	Kent	South East	5.0
E07000109	Gravesham	Kent	South East	6.4
E07000110	Maidstone	Kent	South East	5.6
E07000111	Sevenoaks	Kent	South East	5.5
E07000112	Folkestone and Hythe	Kent	South East	6.9
E07000113	Swale	Kent	South East	5.8
E07000114	Thanet	Kent	South East	8.3
E07000115	Tonbridge and Malling	Kent	South East	9.0
E07000116	Tunbridge Wells	Kent	South East	4.8
E06000008	Blackburn with Darwen	Lancashire	North West	6.9
E06000009	Blackpool	Lancashire	North West	7.7
E07000117	Burnley	Lancashire	North West	6.9
E07000118	Chorley	Lancashire	North West	7.4
E07000119	Fylde	Lancashire	North West	8.0
E07000120	Hyndburn	Lancashire	North West	5.8
E07000121	Lancaster	Lancashire	North West	29.9
E07000122	Pendle	Lancashire	North West	5.8
E07000123	Preston	Lancashire	North West	6.8
E07000124	Ribble Valley	Lancashire	North West	6.8
E07000125	Rossendale	Lancashire	North West	6.8
E07000126	South Ribble	Lancashire	North West	6.5
E07000127	West Lancashire	Lancashire	North West	6.3
E07000128	Wyre	Lancashire	North West	7.5
E06000016	Leicester	Leicestershire	East Midlands	3.7
E07000129	Blaby	Leicestershire	East Midlands	6.5
E07000130	Charnwood	Leicestershire	East Midlands	4.7
E07000131	Harborough	Leicestershire	East Midlands	9.6
E07000132	Hinckley and Bosworth	Leicestershire	East Midlands	6.2
E07000133	Melton	Leicestershire	East Midlands	31.1
E07000134	North West Leicestershire	Leicestershire	East Midlands	6.0
E07000135	Oadby and Wigston	Leicestershire	East Midlands	6.2
E07000136	Boston	Lincolnshire	East Midlands	8.8
E07000137	East Lindsey	Lincolnshire	East Midlands	11.3
E07000138	Lincoln	Lincolnshire	East Midlands	5.0
E07000139	North Kesteven	Lincolnshire	East Midlands	8.1
E07000140	South Holland	Lincolnshire	East Midlands	8.9
E07000141	South Kesteven	Lincolnshire	East Midlands	9.2
E07000142	West Lindsey	Lincolnshire	East Midlands	7.7
E06000012	North East Lincolnshire	Lincolnshire	Yorkshire and the Humber	7.6
E06000013	North Lincolnshire	Lincolnshire	Yorkshire and the Humber	8.6
E08000011	Knowsley	Merseyside	North West	8.0
E08000012	Liverpool	Merseyside	North West	9.7
E08000013	St. Helens	Merseyside	North West	5.3
E08000014	Sefton	Merseyside	North West	5.5
E08000015	Wirral	Merseyside	North West	6.8
E07000143	Breckland	Norfolk	East of England	6.7
E07000144	Broadland	Norfolk	East of England	6.4
E07000145	Great Yarmouth	Norfolk	East of England	11.3
E07000146	King's Lynn and West Norfolk	Norfolk	East of England	9.3
E07000147	North Norfolk	Norfolk	East of England	7.8
E07000148	Norwich	Norfolk	East of England	6.2
E07000149	South Norfolk	Norfolk	East of England	5.2

Table 2.24 Prevalence of cardiovascular conditions by local authority, GP survey data, England 2021
[Back to Table of Contents](#)

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LA Code	LA Name	County	Region	%
E06000061	North Northamptonshire	Northamptonshire	East Midlands	10.0
E06000062	West Northamptonshire	Northamptonshire	East Midlands	5.8
E06000057	Northumberland	Northumberland	North East	8.0
E06000018	Nottingham	Nottinghamshire	East Midlands	6.3
E07000170	Ashfield	Nottinghamshire	East Midlands	5.9
E07000171	Bassetlaw	Nottinghamshire	East Midlands	14.7
E07000172	Broxtowe	Nottinghamshire	East Midlands	6.5
E07000173	Gedling	Nottinghamshire	East Midlands	6.4
E07000174	Mansfield	Nottinghamshire	East Midlands	8.2
E07000175	Newark and Sherwood	Nottinghamshire	East Midlands	8.4
E07000176	Rushcliffe	Nottinghamshire	East Midlands	11.3
E07000177	Cherwell	Oxfordshire	South East	7.1
E07000178	Oxford	Oxfordshire	South East	5.5
E07000179	South Oxfordshire	Oxfordshire	South East	5.5
E07000180	Vale of White Horse	Oxfordshire	South East	6.9
E07000181	West Oxfordshire	Oxfordshire	South East	7.7
E06000017	Rutland	Rutland	East Midlands	6.1
E06000020	Telford and Wrekin	Shropshire	West Midlands	12.3
E06000051	Shropshire	Shropshire	West Midlands	6.0
E06000022	Bath and North East Somerset	Somerset	South West	4.3
E06000024	North Somerset	Somerset	South West	10.5
E07000187	Mendip	Somerset	South West	8.5
E07000188	Sedgemoor	Somerset	South West	6.6
E07000189	South Somerset	Somerset	South West	5.4
E07000246	Somerset West and Taunton	Somerset	South West	8.5
E06000021	Stoke-on-Trent	Staffordshire	West Midlands	5.1
E07000192	Cannock Chase	Staffordshire	West Midlands	4.5
E07000193	East Staffordshire	Staffordshire	West Midlands	6.1
E07000194	Lichfield	Staffordshire	West Midlands	18.1
E07000195	Newcastle-under-Lyme	Staffordshire	West Midlands	5.5
E07000196	South Staffordshire	Staffordshire	West Midlands	5.3
E07000197	Stafford	Staffordshire	West Midlands	6.8
E07000198	Staffordshire Moorlands	Staffordshire	West Midlands	4.4
E07000199	Tamworth	Staffordshire	West Midlands	9.2
E07000200	Babergh	Suffolk	East of England	9.8
E07000202	Ipswich	Suffolk	East of England	8.1
E07000203	Mid Suffolk	Suffolk	East of England	6.6
E07000244	East Suffolk	Suffolk	East of England	7.9
E07000245	West Suffolk	Suffolk	East of England	6.2
E07000207	Elmbridge	Surrey	South East	4.6
E07000208	Epsom and Ewell	Surrey	South East	9.6
E07000209	Guildford	Surrey	South East	4.4
E07000210	Mole Valley	Surrey	South East	6.9
E07000211	Reigate and Banstead	Surrey	South East	6.3
E07000212	Runnymede	Surrey	South East	6.8
E07000213	Spelthorne	Surrey	South East	7.5
E07000214	Surrey Heath	Surrey	South East	7.0
E07000215	Tandridge	Surrey	South East	6.0
E07000216	Waverley	Surrey	South East	7.5
E07000217	Woking	Surrey	South East	5.6
E08000021	Newcastle upon Tyne	Tyne & Wear	North East	7.4
E08000022	North Tyneside	Tyne & Wear	North East	7.9
E08000023	South Tyneside	Tyne & Wear	North East	6.1
E08000024	Sunderland	Tyne & Wear	North East	5.8
E08000037	Gateshead	Tyne & Wear	North East	4.9
E07000218	North Warwickshire	Warwickshire	West Midlands	5.4
E07000219	Nuneaton and Bedworth	Warwickshire	West Midlands	4.8
E07000220	Rugby	Warwickshire	West Midlands	6.8
E07000221	Stratford-on-Avon	Warwickshire	West Midlands	5.5
E07000222	Warwick	Warwickshire	West Midlands	5.1
E08000025	Birmingham	West Midlands	West Midlands	7.0
E08000026	Coventry	West Midlands	West Midlands	4.7
E08000027	Dudley	West Midlands	West Midlands	8.1
E08000028	Sandwell	West Midlands	West Midlands	7.8
E08000029	Solihull	West Midlands	West Midlands	23.8
E08000030	Walsall	West Midlands	West Midlands	4.5
E08000031	Wolverhampton	West Midlands	West Midlands	7.6
E07000223	Adur	West Sussex	South East	10.2

Table 2.24 Prevalence of cardiovascular conditions by local authority, GP survey data, England 2021

[Back to Table of Contents](#)

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LA Code	LA Name	County	Region	%
E07000224	Arun	West Sussex	South East	7.6
E07000225	Chichester	West Sussex	South East	7.4
E07000226	Crawley	West Sussex	South East	4.2
E07000227	Horsham	West Sussex	South East	6.9
E07000228	Mid Sussex	West Sussex	South East	6.5
E07000229	Worthing	West Sussex	South East	9.7
E06000030	Swindon	Wiltshire	South West	5.9
E06000054	Wiltshire	Wiltshire	South West	8.7
E07000234	Bromsgrove	Worcestershire	West Midlands	4.3
E07000235	Malvern Hills	Worcestershire	West Midlands	6.2
E07000236	Redditch	Worcestershire	West Midlands	8.8
E07000237	Worcester	Worcestershire	West Midlands	6.1
E07000238	Wychavon	Worcestershire	West Midlands	6.1
E07000239	Wyre Forest	Worcestershire	West Midlands	8.1
E06000010	Kingston upon Hull, City of	Yorkshire (East Riding)	Yorkshire and the Humber	15.3
E06000011	East Riding of Yorkshire	Yorkshire (East Riding)	Yorkshire and the Humber	11.0
E06000002	Middlesbrough	Yorkshire (North Yorkshire)	North East	6.2
E06000003	Redcar and Cleveland	Yorkshire (North Yorkshire)	North East	6.6
E06000014	York	Yorkshire (North Yorkshire)	Yorkshire and the Humber	16.4
E07000163	Craven	Yorkshire (North Yorkshire)	Yorkshire and the Humber	8.4
E07000164	Hambleton	Yorkshire (North Yorkshire)	Yorkshire and the Humber	6.7
E07000165	Harrogate	Yorkshire (North Yorkshire)	Yorkshire and the Humber	6.2
E07000166	Richmondshire	Yorkshire (North Yorkshire)	Yorkshire and the Humber	3.4
E07000167	Ryedale	Yorkshire (North Yorkshire)	Yorkshire and the Humber	7.4
E07000168	Scarborough	Yorkshire (North Yorkshire)	Yorkshire and the Humber	13.0
E07000169	Selby	Yorkshire (North Yorkshire)	Yorkshire and the Humber	6.9
E08000016	Barnsley	Yorkshire (South Yorkshire)	Yorkshire and the Humber	7.9
E08000017	Doncaster	Yorkshire (South Yorkshire)	Yorkshire and the Humber	6.2
E08000018	Rotherham	Yorkshire (South Yorkshire)	Yorkshire and the Humber	7.3
E08000019	Sheffield	Yorkshire (South Yorkshire)	Yorkshire and the Humber	5.3
E08000032	Bradford	Yorkshire (West Yorkshire)	Yorkshire and the Humber	6.1
E08000033	Calderdale	Yorkshire (West Yorkshire)	Yorkshire and the Humber	6.1
E08000034	Kirklees	Yorkshire (West Yorkshire)	Yorkshire and the Humber	4.4
E08000035	Leeds	Yorkshire (West Yorkshire)	Yorkshire and the Humber	5.7
E08000036	Wakefield	Yorkshire (West Yorkshire)	Yorkshire and the Humber	7.7

Notes: Data from GP Patient Survey (GPPS). Local authority list correct at time of survey. [accessed Feb 2024]
Data will not be comparable with other surveys or patient data (e.g. BHF prevalence estimates based on QOF / GP data)
Self-reported data where respondents have answered if they have a heart condition, or a have had a stroke which affects day-to-day life

Citation: BHF (2024) Analysis of ONS patient survey data for England

Source: ONS (2023) Health Index underlying data, England
<https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthandwellbeing/datasets/healthindexunderlyingdataengland>

Table 2.25 Prevalence of selected cardiovascular conditions by equivalised household income and sex, England 2017

[Back to Table of Contents](#)

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

Notes:

For all adults aged 35 years and over.

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

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

Data in this table are age-standardised.

Citation:

BHF (2018) Analysis of NHS survey data

Source:

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

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

Table 2.26 Prevalence of selected cardiovascular conditions by sex, Scotland 2003 to 2022

[Back to Table of Contents](#)

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		2003 %	2008 %	2009 %	2010 %	2011 %	2012 %	2013 %	2014 %	2015 %	2016 %	2017 %	2018 %	2019 %	2021 %	2022 %
CHD	Men	8.2	6.9	7.4	7.5	7.5	7.3	7.1	7.8	7.4	6.7	6.4	7.0	7.0	7	6
	Women	6.5	5.6	5.2	5.2	4.9	5.7	5.3	4.7	4.6	4.2	4.0	4.0	4.0	4	4
	All adults	7.3	6.2	6.2	6.3	6.2	6.5	6.1	6.2	6.0	5.4	5.2	5.0	5.5	5	5
Stroke	Men	2.4	2.5	2.7	3.3	2.9	2.8	3.2	3.3	2.6	3.2	3.2	2.0	3.0	3	3
	Women	2.1	2.8	2.2	2.5	2.7	2.8	2.7	3.1	2.6	2.7	2.8	3.0	3.0	2	3
	All adults	2.2	2.6	2.5	2.9	2.8	2.8	2.9	3.2	2.6	2.9	3.0	3.0	3.0	3	3
Any CVD	Men	14.9	15.1	15.2	16.3	15.6	16.6	15.7	18.2	15.6	15.5	16.2	16.0	17.0	18	17
	Women	14.5	15.5	13.7	14.0	13.8	15.9	15.3	13.8	14.5	15.0	14.6	16.0	14.0	14	14
	All adults	14.7	15.3	14.4	15.1	14.6	16.2	15.5	15.9	15.1	15.2	15.4	16.0	15.5	16	16

Notes:

For adults aged 16 years and over. No data for 2020.

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

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

Citation:

BHF (2024) Analysis of Scottish health survey data

Source:

The Scottish Government. The Scottish Health Survey 2022 and previous editions.

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

Table 2.27 Prevalence of selected cardiovascular conditions by age group, Scotland 2003 to 2022

[Back to Table of Contents](#)

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		2003	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2021	2022
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CHD	16-24	-	-	0.1	-	0.6	-	-	-	0.7	-	-	-	-	-	-
	25-34	0.6	-	0.2	0.5	0.1	0.3	0.3	0.5	0.4	-	0.1	0.0	-	*	-
	35-44	0.8	0.8	0.6	0.9	0.2	1.4	0.6	0.8	1.1	0.1	-	1.0	1.0	1	1
	45-54	4.3	2.7	3.0	3.5	4.3	2.7	2.5	3.7	3.8	2.4	2.8	4.0	3.0	3	4
	55-64	11.9	10.2	9.7	8.9	7.6	9.4	7.9	10.2	6.3	8.6	6.8	6.0	6.0	8	8
	65-74	21.1	18.7	17.2	18.6	17.6	17.5	16.3	15.1	13.6	13.3	13.1	12.0	13.0	10	11
	75+	26.0	22.8	24.2	22.3	23.7	25.0	26.7	21.2	25.0	21.4	20.5	19.0	24.0	20	15
	All adults	7.3	6.2	6.2	6.3	6.2	6.5	6.1	6.2	6.0	5.4	5.2	5.0	5.5	5	5
Stroke	16-24	0.1	0.0	0.1	0.1	-	-	-	-	-	0.3	-	-	-	-	*
	25-34	0.1	-	0.1	0.3	0.4	0.4	0.2	0.1	0.3	0.1	0.2	1.0	-	*	*
	35-44	0.8	0.9	0.6	1.3	0.4	0.9	0.6	0.5	0.8	0.2	1.0	-	-	2	1
	45-54	0.7	1.4	1.2	1.1	1.4	1.5	2.6	1.5	1.1	3.9	2.5	2.0	4.5	1	2
	55-64	3.3	3.2	2.8	4.5	3.6	3.4	4.4	4.9	4.0	2.7	3.9	4.0	4.0	3	4
	65-74	5.4	6.5	6.6	7.0	7.2	5.7	4.9	8.5	5.3	6.0	6.7	8.0	6.5	6	6
	75+	9.4	11.7	10.4	10.7	11.5	12.9	11.4	11.5	10.4	10.5	9.5	9.0	11.0	10	9
	All adults	2.2	2.6	2.5	2.9	2.8	2.8	2.9	3.2	2.6	2.9	3.0	3.0	3.0	3	3
Any CVD	16-24	3.7	5.7	4.1	5.1	5.5	4.6	5.9	4.9	5.5	5.0	4.5	4.0	4.5	5	5
	25-34	5.3	5.8	4.9	5.7	5.3	5.5	5.9	7.0	5.5	7.3	6.0	9.0	6.0	9	7
	35-44	7.2	7.9	7.4	8.1	5.4	10.6	7.0	9.2	7.5	8.6	7.2	8.0	8.0	10	10
	45-54	10.8	11.6	10.6	11.1	12.2	12.8	10.9	12.1	12.7	12.6	10.0	11.0	12.0	10	14
	55-64	20.3	20.4	19.0	19.0	16.5	19.4	19.8	20.5	18.5	17.9	19.7	19.0	16.5	20	18
	65-74	33.1	33.1	29.8	32.7	32.2	31.4	28.4	29.2	24.9	26.3	30.1	31.0	26.0	26	25
	75+	39.8	39.1	41.9	39.7	42.3	45.8	47.3	41.8	43.6	40.2	43.0	41.0	45.5	41	36
	All adults	14.7	15.3	14.4	15.1	14.6	16.2	15.5	15.9	15.1	15.2	15.4	16.0	15.5	16	16

Notes: For all adults aged 16 years and over. No data for 2020.

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

* rounded to zero

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

Citation: BHF (2024) Analysis of Scottish health survey data

Source: The Scottish Government. The Scottish Health Survey 2022 and previous editions.

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

Table 2.28 Prevalence of selected cardiovascular conditions by equivalised household income and sex, Scotland 2022

[Back to Table of Contents](#)

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		Equivalised household income quintile				
		Highest	2nd	3rd	4th	Lowest
		%	%	%		%
CHD	Men	3	6	8	4	8
	Women	2	2	3	3	7
	All adults	3	4	5	4	8
Stroke	Men	1	2	4	2	5
	Women	2	2	2	2	6
	All adults	1	2	3	2	5
Any CVD	Men	16	16	17	14	24
	Women	10	12	12	12	23
	All adults	13	14	14	13	23

Notes:

For all adults aged 16 years and over. Equivalised by OECD method

Top Quintile >=£59,300; Bottom Quintile < £17,600

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

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

Citation:

Scottish Government (2024) Analysis of CVD prevalence data

Source:

Scottish Government (2024). The Scottish Health Survey 2022. Supplementary tables [accessed Feb 2024]

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

Table 2.29 Prevalence of selected cardiovascular conditions by deprivation quintile and sex, Scotland 2022

[Back to Table of Contents](#)

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		SIMD Quintiles				
		Most deprived quintile	2nd	3rd	4th	Least deprived quintile
		%	%	%	%	%
CHD	Men	9	6	5	6	5
	Women	7	5	4	3	2
	All adults	8	6	4	4	3
Stroke	Men	5	4	3	2	2
	Women	6	2	2	3	1
	All adults	5	3	3	3	1
Any CVD	Men	20	17	16	20	15
	Women	20	14	13	14	9
	All adults	20	16	15	17	12

Notes:

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

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

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

Citation:

Scottish Government (2023) Analysis of CVD prevalence data

Source:

Scottish Government (2023). The Scottish Health Survey 2022

<https://www.gov.scot/publications/scottish-health-survey-2022-volume-1-main-report/documents/>

Table 2.30 Prevalence of any cardiovascular condition by deprivation quintile and sex, Scotland 2003 to 2022

[Back to Table of Contents](#)

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Any CVD	SIMD Quintiles	2003 %	2008 %	2009 %	2010 %	2011 %	2012 %	2013 %	2014 %	2015 %	2016 %	2017 %	2018 %	2019 %	2021 %	2022 %
Men	Most deprived quintile	22	19	22	19	20	19	19	26	23	17	25	17	22	22	20
	2nd	18	18	17	17	18	21	19	17	15	18	20	16	16	22	17
	3rd	16	17	16	15	18	13	16	18	12	18	13	15	19	17	16
	4th	16	14	15	18	14	18	16	17	17	16	15	17	15	15	20
	Least deprived quintile	12	14	13	17	14	17	13	16	13	12	13	16	14	15	15
Women	Most deprived quintile	19	19	19	17	18	25	21	19	20	20	21	21	18	18	20
	2nd	16	16	16	18	13	17	19	14	15	15	17	16	15	17	14
	3rd	15	17	14	13	14	16	15	13	14	14	13	17	13	12	13
	4th	14	15	12	14	13	15	13	12	13	13	12	14	11	15	14
	Least deprived quintile	11	15	10	10	13	9	12	13	13	13	12	12	11	11	9
All Adults	Most deprived quintile	20	19	20	18	19	23	20	23	21	19	22	19	20	20	20
	2nd	17	17	16	17	15	19	19	15	15	16	18	16	16	19	16
	3rd	16	17	15	14	16	15	15	15	13	16	13	16	16	14	15
	4th	15	14	14	16	13	17	14	14	15	14	13	15	13	15	17
	Least deprived quintile	12	14	12	13	13	13	13	14	13	12	12	14	12	13	12

Notes:

For all adults aged 16 years and over.

SIMD = Scottish Index of Multiple Deprivation

No data published for 2020.

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

Citation:

BHF (2024) Analysis of Scottish health survey data

Source:

The Scottish Government. The Scottish Health Survey 2022 and previous editions.

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

Table 2.31 Prevalence of heart and circulatory complaints by sex and age, Wales 2016/17 to 2022/23

[Back to Table of Contents](#)

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		2016/17	2017/18	2018/19	2019/20			2021/22	2022/23
		%	%	%	%			%	%
Men	16-44	1.8	1.8	2.5	1.5	Men	16-24	1.0	1.3
	45-64	16.0	16.1	16.1	16.2		25-34	2.6	1.3
	65+	32.8	33.5	33.6	32.8		35-44	2.5	3.8
							45-54	9.2	9.5
	All adults	13.5	13.9	14.2	13.7		55-64	19.6	18.8
Women	16-44	3.0	2.4	2.6	2.5	Women	65-74	25.0	25.5
	45-64	13.6	11.0	9.6	12.3		75+	29.3	27.0
	65+	27.7	26.2	28.0	28.6		All adults	12.1	11.8
	All adults	12.7	11.4	11.5	12.5				
Both	16-44	2.4	2.1	2.6	2.0	Both	16-24	1.7	1.1
	45-64	14.8	13.5	12.7	14.2		25-34	1.7	2.0
	65+	30.1	29.6	30.6	30.5		35-44	3.3	5.2
							45-54	7.6	7.8
	All adults	13.1	12.6	12.8	13.1		55-64	13.4	12.2
						Both	65-74	21.6	19.9
							75+	27.4	25.0
							All adults	10.8	10.4
						Both	16-24	1.4	1.2
							25-34	2.2	1.6
							35-44	2.9	4.5
							45-54	8.4	8.6
							55-64	16.4	15.4
						Both	65-74	23.2	22.6
							75+	28.2	25.9
							All adults	11.4	11.1

Notes:

Adults aged 16 years and over. Methodologies before/after pandemic not comparable. Figures not published for 2020/21

Citation:

BHF (2024) Analysis of Welsh survey data

Source:

National Survey for Wales [accessed Feb 2024]

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

Table 2.32 Prevalence of heart and circulatory complaints by deprivation quintile, Wales 2016/17 to 2022/23

[Back to Table of Contents](#)

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	Year	WIMD Quintiles				
		Most deprived	2nd	3rd	4th	Least deprived
		%	%	%	%	%
Heart & Circulatory Complaints	2022/23	11.4	12.0	10.4	10.6	9.2
	2021/22	12.2	12.4	10.1	10.0	10.6
Heart & Circulatory Complaints	2019/20	15.0	13.3	12.5	12.1	11.3
	2018/19	15.6	13.5	11.8	11.0	11.3
	2017/18	15.5	15.2	12.2	10.5	9.5
	2016/17	15.2	15.1	13.9	10.3	11.4

Notes: WIMD = Welsh Index of Multiple Deprivation

Adults aged 16 years and over. Methodologies before/after pandemic not comparable. Figures not published for 2020/21

Citation: BHF (2024) Analysis of Welsh survey data

Source: National Survey for Wales: adult general health and illness by WIMD deprivation quintile [accessed Feb 2024]

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

Table 2.33 Prevalence of congenital heart disease, diagnoses in babies, England 2021[Back to Table of Contents](#)for content queries contact healthinsights@bhf.org.uk

	Number of babies	Prevalence rate per 10,000 births	Live births	Live birth prevalence rate per 10,000 births
Congenital heart defects	4,034	67.2	3,211	53.7
Severe congenital heart defects	1,760	29.3	1,182	19.8
Ventricular septal defect [VSD]	1,632	27.2	1,414	23.6
Atrial septal defect	532	8.9	529	8.8
Atrioventricular septal defect [ASD]	411	6.8	232	3.9
Coarctation of aorta	295	4.9	236	3.9
Pulmonary valve stenosis	232	3.9	213	3.6
Tetralogy of Fallot	230	3.8	166	2.8
Hypoplastic left heart (syndrome)	186	3.1	87	1.5
Double outlet right ventricle	181	3.0	107	1.8
Transposition of great vessels [TGV/TGA]	182	3.0	152	2.5
Pulmonary valve atresia	133	2.2	83	1.4
Aortic valve atresia/stenosis	83	1.4	71	1.2
Total anomalous pulmonary venous return	61	1.0	50	0.8
Tricuspid atresia and stenosis	56	0.9	32	0.5
Single ventricle	41	0.7	22	0.4
Common arterial truncus	34	0.6	13	0.2
Corrected transposition of great arteries	29	0.5	19	0.3
Ebstein's anomaly	31	0.5	23	0.4
Mitral valve anomalies	28	0.5	15	0.3
Aortic atresia/interrupted aortic arch	29	0.5	18	0.3
Hypoplastic right heart	20	0.3	10	0.2
Patent ductus arteriosus	19	0.3	19	0.3
Double outlet left ventricle	2	-	-	-

Notes: Number of babies diagnosed with congenital anomalies; birth prevalence (per 10,000 total births)
 Calculations based on 600,465 births in England (2021); figures include genetic conditions
 Note that congenital heart disease can be diagnosed at any age; diagnoses later in childhood and adulthood are common.

Citation: BHF (2024) Analysis of NCARDRS congenital anomaly statistics

Source: National Congenital Anomaly & Rare Disease Registration Service (NCARDRS) congenital anomaly statistics: annual data. Tables.

<https://digital.nhs.uk/data-and-information/publications/statistical/ncardrs-congenital-anomaly-statistics-annual-data/ncardrs-congenital-anomaly-statistics-annual-data>

Table 2.34 Prevalence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD) by nation and region, United Kingdom 2021

[Back to Table of Contents](#)

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Nation	English Region	Prevalence A/S CVD 2021 est	Prevalence A/S CHD 2021 est	Prevalence Stroke A/S 2021
	East Midlands	5,888	1,283	686
	East of England	5,815	1,236	661
	Greater London	6,038	1,205	641
	North East England	6,258	1,373	727
	North West England	6,160	1,347	728
	South East England	5,688	1,195	655
	South West England	5,732	1,202	665
	West Midlands	5,797	1,215	686
	Yorkshire and the Humber	5,942	1,303	708
<i>England</i>		<i>5,897</i>	<i>1,252</i>	<i>680</i>
<i>Scotland</i>		<i>7,436</i>	<i>2,185</i>	<i>1,505</i>
<i>Wales</i>		<i>6,535</i>	<i>1,564</i>	<i>803</i>
<i>Northern Ireland</i>		<i>6,242</i>	<i>1,773</i>	<i>781</i>
United Kingdom		6,073	1,363	760

Notes: All figures are modelled 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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1
 ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Citation: BHF (2024) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.

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

Global Burden of Disease Study 2021 Results.

[accessed July 2024]

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

For actual CHD/stroke prevalence totals from UK patient data, and BHF CVD estimates, see Table 2.11

Table 2.35 Prevalence of cardiovascular disease (CVD), coronary heart disease (CHD), and stroke (CBVD), by country and continent 2021

[Back to Table of Contents](#)

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Region	Country	Prevalence CVD 2021 est	Prevalence A/S CVD 2021 est	Prevalence CHD 2021 est	Prevalence A/S CHD 2021 est	Prevalence Stroke 2021 est	Prevalence Stroke A/S 2021
GLOBAL		612,059,322	7,178.7	254,276,268	2,946.4	93,816,414	1,099.3
EUROPE		110,208,757	7,282.9	43,362,824	2,762.4	13,403,001	937.8
	Albania	323,962	8,061.4	129,237	2,943.7	31,368	804.3
	Andorra	7,845	5,195.8	2,218	1,447.2	930	654.0
	Austria	1,204,461	6,891.4	288,715	1,647.5	195,927	1,140.0
	Belarus	1,100,405	7,055.6	627,087	3,891.6	176,672	1,185.3
	Belgium	1,330,477	6,085.5	321,065	1,432.9	151,255	715.9
	Bosnia and Herzegovina	428,359	7,192.7	198,762	3,204.0	70,511	1,269.4
	Bulgaria	949,984	7,053.1	475,735	3,321.7	159,098	1,256.2
	Croatia	504,413	5,845.8	244,160	2,776.1	72,488	884.4
	Cyprus	102,981	5,040.4	25,051	1,198.4	9,959	521.5
	Czechia	1,672,897	8,260.8	715,423	3,350.1	184,479	937.6
	Denmark	652,476	5,761.9	125,387	1,085.8	79,025	744.7
	Estonia	189,483	7,338.1	107,711	3,966.3	17,504	772.7
	Finland	749,247	6,295.4	198,701	1,618.7	126,865	1,110.4
	France	11,480,967	9,101.4	2,180,523	1,595.1	928,694	737.2
	Germany	12,671,915	7,079.9	3,151,798	1,683.2	1,961,477	1,093.2
	Greece	1,147,656	5,029.4	261,596	1,157.6	184,789	868.5
	Hungary	1,298,335	6,895.7	687,289	3,477.5	162,162	936.7
	Iceland	30,104	5,351.7	8,907	1,563.1	4,295	799.1
	Ireland	424,800	5,531.5	113,061	1,436.8	42,863	596.3
	Italy	9,069,565	6,737.7	2,109,381	1,544.6	726,983	582.8
	Latvia	246,903	6,447.7	125,179	3,092.9	38,723	1,085.0
	Lithuania	367,143	6,687.6	179,816	3,040.2	49,790	1,018.7
	Luxembourg	69,816	6,875.4	12,960	1,239.8	5,450	561.4
	Malta	46,787	5,059.7	12,176	1,272.1	4,906	596.5
	Moldova	368,118	6,324.9	202,545	3,389.8	52,570	946.5
	Montenegro	66,917	7,009.5	36,358	3,731.2	7,803	873.5
	Netherlands	1,999,752	5,967.4	509,889	1,486.3	251,373	803.8
	North Macedonia	217,141	6,713.9	111,163	3,423.6	39,575	1,254.3
	Norway	601,636	6,206.2	144,841	1,478.6	91,233	956.5
	Poland	4,292,253	6,178.2	2,087,659	2,904.5	484,802	749.2
	Portugal	1,143,834	4,880.5	223,738	947.1	121,105	579.9
	Romania	2,374,542	6,602.4	1,224,025	3,277.4	368,875	1,082.8
	Russian Federation	20,183,634	8,622.6	12,624,158	5,279.1	2,453,769	1,102.1
	Serbia	1,134,136	7,093.8	648,643	3,958.9	151,578	1,006.3
	Slovakia	651,936	7,115.9	284,252	2,987.2	106,246	1,185.6
	Slovenia	289,576	6,732.8	143,108	3,247.4	24,286	624.3
	Spain	5,700,212	6,174.1	1,171,513	1,266.3	694,496	776.9
	Sweden	1,494,406	7,400.6	312,502	1,459.8	179,366	929.5
	Switzerland	908,755	5,232.9	219,531	1,249.1	102,749	623.4
	Ukraine	5,665,583	7,456.3	3,551,142	4,518.8	843,892	1,207.9
	United Kingdom #	7,377,133	6,073.4	1,702,773	1,363.4	894,947	759.8
	England #	5,982,801	5,897.3	1,299,172	1,252.1	659,502	679.5
	Scotland #	782,963	7,435.7	241,277	2,184.9	163,478	1,505.5
	Wales #	407,827	6,535.4	102,638	1,563.7	47,267	802.7
	Northern Ireland #	203,542	6,242.5	59,687	1,773.5	24,699	781.0
NORTH AMERICA		47,577,211	7,765.7	9,766,038	1,495.0	7,004,963	1,194.7
	Canada	5,150,284	7,870.2	1,105,820	1,544.1	704,693	1,090.9
	United States	42,416,173	7,755.3	8,655,574	1,488.8	6,299,339	1,207.0
LATIN AMERICA & CARIBBEAN		41,500,760	6,703.0	14,674,190	2,368.1	5,183,939	832.6
	Brazil	16,934,613	6,897.4	4,966,552	1,976.7	2,052,714	823.3
ASIA		340,412,487	6,782.6	162,405,701	3,223.6	57,327,986	1,137.0
	China	133,845,555	6,603.7	63,331,312	3,042.4	26,335,403	1,301.4
	India	89,154,387	7,339.4	51,933,273	4,458.2	9,337,658	727.1
	Japan	16,236,873	5,040.4	2,918,517	802.3	3,606,917	1,176.0
	Türkiye (Turkey)	8,018,332	8,562.8	5,015,695	5,365.9	926,990	999.1
	United Arab Emirates	729,852	11,066.8	384,628	7,608.9	113,379	1,429.4
AFRICA		66,238,230	8,340.8	22,549,026	3,609.0	10,036,739	1,284.6
	South Africa	3,923,385	8,034.3	1,283,630	2,839.9	620,739	1,333.4
AUSTRALASIA		3,289,046	6,440.6	1,055,922	1,967.0	368,278	743.7
	Australia	2,797,352	6,532.0	847,761	1,877.7	313,300	750.5
	New Zealand	491,694	5,978.1	208,162	2,442.8	54,978	707.4

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

All figures are modelled 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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8, I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1
ICD-10 codes for coronary heart disease (CHD) I20-I25.9 - ICD-10 codes for stroke (CBVD) G45-G46.8, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.1-I68.2, I69.0-I69.3

Citation: BHF (2024) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2021 Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

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

[accessed July 2024]



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Heart and Circulatory Disease Statistics 2024 - Chapter 3 - Treatment

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

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

PRESCRIPTIONS

3.1	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), England - 1981 to 2023
3.2	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Wales - 2004/05 to 2022/23
3.3	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Scotland - 2001/02 to 2022/23
3.4	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Northern Ireland - 2000 to 2023
3.5	Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), UK - latest available

OPERATIONS

3.6	Number of CABGs and PCIs, UK - 1977 to 2022/23
3.7	Number and rate of PCIs and CABGs, Scotland, by sex - 2008/09 to 2022/23
3.8	Number of valve replacements and repairs, UK - 2002/03 to 2022/23
3.9	Number of rate of valve surgery procedures, Scotland - 2013/14 to 2022/23

TRANSPLANTS

3.10	Cardiothoracic transplant list, UK - 2023/24
3.11	Cardiothoracic transplants by UK nation - 2010/11 to 2023/24

IMPLANTS

3.12	New Pacemaker implants and rate per million population, by UK nation - 2010/11 to 2022/23
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OUT-OF-HOSPITAL CARDIAC ARRESTS

3.13	Out-of-hospital cardiac arrest (OHCA) overall survival rates, by Ambulance Service, England - 2011/12 to 2022/23; 2011 to 2022
3.14	Out-of-hospital cardiac arrest (OHCA) Utstein cohort survival rates, by Ambulance Service, England - 2011/12 to 2022/23; 2011 to 2022
3.15	Out-of-hospital cardiac arrest (OHCA) survival rates, Scotland - 2011/12 to 2022/23

Table 3.1 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), England 1981 to 2023

Back to Table of Contents

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Thousands (000s)																							
Prescriptions	1981	1986	1991	1996	2001	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Positive inotropic drugs (2.1)	4,243	3,722	3,822	3,871	4,031	4,126	4,141	4,149	4,119	4,088	4,006	3,900	3,770	3,634	3,460	3,297	3,148	3,025	2,907	2,791	2,650	2,591	2,566
Diuretics (2.2)	20,678	21,996	22,195	23,106	30,203	37,582	37,355	37,536	37,511	37,687	37,563	37,258	36,650	36,208	35,327	34,509	33,354	32,353	31,573	30,987	29,975	29,764	29,867
Anti-arrhythmic drugs (2.3)	232	334	532	840	1,292	1,265	1,247	1,226	1,188	1,174	1,156	1,129	1,107	1,088	1,061	1,048	1,009	987	971	950	926	932	921
Beta-adrenoreceptor blocking drugs (2.4)	9,827	12,525	14,282	14,375	20,439	27,378	26,810	27,634	28,529	29,686	30,924	32,355	33,597	34,860	35,948	37,038	37,817	38,618	39,564	40,331	40,591	41,569	42,771
Antihypertensive and heart failure drugs (2.5)	4,912	4,424	6,431	12,125	25,047	47,742	53,634	57,823	60,838	63,571	65,449	67,184	68,652	70,072	70,774	71,453	71,531	72,128	72,986	73,622	73,108	74,708	77,600
Nitrates, calcium blockers & other antianginal drugs (2.6)	5,156	10,314	16,718	21,971	26,814	34,707	37,214	39,100	40,575	42,043	43,086	44,675	45,868	46,992	47,812	48,740	49,365	50,201	51,431	52,444	52,720	54,724	57,722
Anticoagulants and protamine (2.8)	629	900	1,356	2,609	4,609	6,790	7,309	7,991	8,546	9,157	9,773	10,723	11,906	13,173	14,647	15,938	17,000	17,992	18,871	19,453	19,666	20,379	21,178
Antiplatelet drugs (2.9)	281	1,058	3,619	9,002	18,891	32,779	35,382	38,124	39,107	38,182	38,351	38,603	38,661	38,444	37,312	36,297	35,082	34,140	33,346	33,071	32,304	32,203	32,288
Anti-fibrinolytic drugs and haemostatics (2.11)					282	327	352	358	363	373	392	396	393	408	416	409	402	414	438	442	486	529	576
Lipid-regulating drugs (2.12)	295	247	1,066	3,138	13,523	42,098	47,412	52,190	56,452	59,550	61,649	64,399	66,795	68,437	69,731	70,957	72,612	74,289	76,044	78,348	79,309	82,961	89,271
other BNF sections (small volumes)									16	19	21	25	24	26	32	47	64	89	116	136	153	181	219
All prescriptions for disease of the circulatory system	46,252	55,520	70,022	91,037	145,131	234,793	250,855	266,130	277,244	285,530	292,370	300,647	307,424	313,342	316,520	319,734	321,385	324,236	328,247	332,575	331,888	340,541	354,978

Notes: The data up to 1990 are not consistent with data from 1991 onwards. Figures up to 1990 are based on fees and on a sample of 1 in 200 prescriptions dispensed by community pharmacists and appliance contractors only.

Figures from 1991 are based on items and cover all prescriptions dispensed by community pharmacists, appliance contractors, dispensing doctors and prescriptions submitted by prescribing doctors for items personally administered. British National Formulary (BNF) codes in parentheses

Citation: BHF (2024) Analysis of prescription data

Source: NHS England. Prescription cost analysis 1981 to 2018 <https://digital.nhs.uk/data-and-information/publications/statistical/prescription-cost-analysis>

NHSBSA. Prescription cost analysis from 2019 to 2023 [accessed July 2024] <https://www.nhsbsa.nhs.uk/statistical-collections/prescription-cost-analysis-england>

Table 3.2 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Wales 2004/05 to 2022/23

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

	Thousands (000s)																			
Prescriptions	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	
Positive inotropic drugs (2.1)	361	363	354	330	314	307	294	283	270	257	247	232	223	213	203	203	194	188	183	
Diuretics (2.2)	3,004	3,105	3,083	3,005	2,979	2,986	2,973	2,971	2,918	2,882	2,855	2,760	2,696	2,594	2,509	2,476	2,395	2,340	2,269	
Anti-arrhythmic drugs (2.3)	104	98	93	85	79	73	67	64	61	61	60	59	59	58	56	57	57	57	58	
Beta-adrenoreceptor blocking drugs (2.4)	2,007	2,115	2,091	2,070	2,113	2,187	2,254	2,356	2,433	2,520	2,600	2,653	2,710	2,744	2,775	2,871	2,862	2,908	2,903	
Antihypertensive and heart failure drugs (2.5)	3,181	3,531	3,863	4,180	4,427	4,657	4,816	4,972	5,063	5,191	5,302	5,330	5,381	5,361	5,362	5,489	5,409	5,451	5,427	
Nitrates, calcium blockers & other antianginal drugs (2.6)	2,627	2,777	2,932	3,044	3,137	3,228	3,273	3,342	3,385	3,442	3,493	3,511	3,553	3,543	3,560	3,668	3,647	3,712	3,733	
Anticoagulants and protamine (2.8)	547	587	621	658	693	733	771	825	884	957	1,053	1,139	1,210	1,245	1,291	1,352	1,350	1,372	1,388	
Antiplatelet drugs (2.9)	2,405	2,622	2,747	2,879	3,022	3,038	2,928	2,916	2,877	2,851	2,795	2,668	2,574	2,453	2,354	2,312	2,256	2,230	2,171	
Anti-fibrinolytic drugs and haemostatics (2.11)	21	23	24	28	29	29	30	33	32	32	33	32	33	31	33	34	34	37	40	
Lipid-regulating drugs (2.12)	2,712	3,239	3,734	4,041	4,345	4,619	4,715	4,843	4,971	5,092	5,153	5,124	5,136	5,148	5,159	5,306	5,315	5,401	5,473	
other BNF sections (small volumes)							1	1	1	1	1	1	2	2	3	4	4	5	6	
All prescriptions for disease of the circulatory system	16,969	18,460	19,542	20,321	21,140	21,858	22,123	22,605	22,896	23,284	23,592	23,510	23,576	23,394	23,305	23,772	23,523	23,702	23,650	

Notes: British National Formulary (BNF) codes in parentheses
Citation: BHF (2024) Analysis of prescription data
Source: Health Statistics and Analysis Unit. Prescription cost analysis. Welsh Government: Cardiff.
<https://gov.wales/prescriptions-wales> [accessed Feb 2024]

Table 3.3 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Scotland 2001/02 to 2022/23

Back to Table of Contents for any content queries please email healthinsights@bhf.org.uk

Thousands (000s)																			
Prescriptions	2001/02	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
Positive inotropic drugs (2.1)	358	323	315	305	296	291	283	276	269	260	252	246	241	236	228	228	217	214	214
Diuretics (2.2)	3,469	3,914	3,810	3,680	3,597	3,544	3,457	3,382	3,269	3,154	3,057	2,942	2,848	2,740	2,643	2,626	2,501	2,475	2,444
Anti-arrhythmic drugs (2.3)	102	90	85	81	77	73	70	71	69	68	67	66	66	65	65	66	64	64	65
Beta-adrenoreceptor blocking drugs (2.4)	2,508	3,027	2,940	2,853	2,850	2,883	2,909	2,957	2,998	3,048	3,102	3,150	3,197	3,235	3,277	3,414	3,356	3,450	3,511
Antihypertensive and heart failure drugs (2.5)	2,298	3,777	4,127	4,462	4,693	4,875	4,965	5,045	5,095	5,160	5,220	5,223	5,218	5,187	5,185	5,355	5,174	5,273	5,367
Nitrates, calcium blockers & other antianginal drugs (2.6)	3,278	3,542	3,625	3,666	3,683	3,714	3,697	3,699	3,716	3,735	3,738	3,750	3,740	3,722	3,718	3,842	3,729	3,827	3,950
Anticoagulants and protamine (2.8)	489	612	646	676	707	743	773	819	884	958	1,035	1,108	1,159	1,197	1,231	1,290	1,258	1,295	1,333
Antiplatelet drugs (2.9)	2,461	3,448	3,545	3,652	3,743	3,724	3,577	3,506	3,404	3,295	3,218	3,108	3,030	2,926	2,845	2,847	2,764	2,750	2,734
Anti-fibrinolytic drugs and haemostatics (2.11)	35	36	38	39	41	42	43	44	47	47	47	48	47	47	49	51	49	55	59
Lipid-regulating drugs (2.12)	1,667	3,649	4,081	4,376	4,624	4,826	4,875	4,861	4,907	4,977	5,024	5002	4,989	5,003	5,009	5,173	5,080	5,182	5,322
other BNF sections (small volumes)	1	1	1	1	1	1	1	0	1	1	4	1	3	3	3	4	3	5	5
All prescriptions for disease of the circulatory system	16,667	22,418	23,212	23,791	24,312	24,716	24,649	24,660	24,657	24,703	24,764	24,644	24,538	24,361	24,252	24,896	24,197	24,591	25,004

Notes: British National Formulary (BNF) codes in parentheses

Citation: BHF (2024) Analysis of prescription data

Source: Public Health Scotland. Prescription Cost Analysis. NHS National Services: Edinburgh. and previous editions.
www.isdscotland.org/Health-Topics/Prescribing-and-medicines/Community-Dispensing/Prescription-Cost-Analysis/
<https://publichealthscotland.scot/publications/dispenser-payments-and-prescription-cost-analysis/>

[accessed Feb 2024]

[to 2016]

[from 2017]

Table 3.4 Prescriptions used in the prevention and treatment of heart and circulatory diseases (CVD), Northern Ireland 2000 to 2023

[Back to Table of Contents](#)

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	Thousands (000s)																			
Prescriptions	2000	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Positive inotropic drugs (2.1)	132	107	104	101	99	96	95	93	92	90	88	82	80	75	72	70	68	67	67	66
Diuretics (2.2)	819	1,015	1,009	992	983	983	992	1,002	996	978	961	940	926	908	896	898	893	878	871	870
Anti-arrhythmic drugs (2.3)	41	38	36	35	34	32	31	32	31	30	29	28	28	27	26	25	25	24	24	24
Beta-adrenoreceptor blocking drugs (2.4)	641	908	918	915	937	967	1,020	1,059	1,108	1,150	1,190	1,230	1,277	1,312	1,351	1,395	1,427	1,455	1,490	1,544
Antihypertensive and heart failure drugs (2.5)	602	1,145	1,247	1,364	1,445	1,517	1,595	1,640	1,689	1,728	1,770	1,799	1,834	1,854	1,898	1,957	1,986	2,008	2,062	2,137
Nitrates, calcium blockers & other antianginal drugs (2.6)	928	1,001	1,039	1,080	1,089	1,097	1,124	1,154	1,188	1,218	1,234	1,255	1,286	1,304	1,340	1,387	1,412	1,432	1,484	1,551
Anticoagulants and protamine (2.8)	138	183	194	207	220	233	249	274	300	334	366	394	427	454	477	502	519	530	547	564
Antiplatelet drugs (2.9)	539	957	1,026	1,095	1,151	1,177	1,192	1,223	1,239	1,239	1,229	1,202	1,179	1,153	1,137	1,124	1,113	1,094	1,080	1,077
Anti-fibrinolytic drugs and haemostatics (2.11)	10	12	12	13	13	14	14	16	17	16	16	16	16	16	17	18	18	19	20	21
Lipid-regulating drugs (2.12)	376	1,047	1,227	1,393	1,534	1,652	1,761	1,838	1,901	1,954	1,988	2,035	2,083	2,130	2,180	2,237	2,293	2,338	2,431	2,552
<i>other BNF sections (small volumes)</i>												3	1	1	2	2	3	3	4	4
All prescriptions for disease of the circulatory system	4,226	6,413	6,812	7,195	7,505	7,769	8,073	8,331	8,560	8,736	8,869	8,984	9,136	9,235	9,396	9,616	9,757	9,848	10,080	10,409

Notes: British National Formulary (BNF) codes in parentheses

Citation: BHF (2024) Analysis of prescription data

Source: HSC (2024). Prescription Cost Analysis to 2023. Business Services Organisation: Belfast. [accessed Feb 2024]

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

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

[Back to Table of Contents](#)

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thousands

Prescriptions	England 2023	Wales 2022/23	Scotland 2022/23	Northern Ireland 2023	UK latest
Positive inotropic drugs (2.1)	2,566	183	214	66	3,029
Diuretics (2.2)	29,867	2,269	2,444	870	35,450
Anti-arrhythmic drugs (2.3)	921	58	65	24	1,067
Beta-adrenoreceptor blocking drugs (2.4)	42,771	2,903	3,511	1,544	50,729
Antihypertensive and heart failure drugs (2.5)	77,600	5,427	5,367	2,137	90,531
Nitrates, calcium blockers & other antianginal drugs (2.6)	57,722	3,733	3,950	1,551	66,956
Anticoagulants and protamine (2.8)	21,178	1,388	1,333	564	24,463
Antiplatelet drugs (2.9)	32,288	2,171	2,734	1,077	38,270
Anti-fibrinolytic drugs and haemostatics (2.11)	576	40	59	21	696
Lipid-regulating drugs (2.12)	89,271	5,473	5,322	2,552	102,617
<i>other BNF sections (small volumes**)</i>	219	6	5	4	234
All prescriptions for disease of the cardiovascular system	354,978	23,650	25,004	10,409	414,041

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

** section 7 - sympathomimetics and other vasoconstrictor drugs; 13 local sclerosants

Citation: BHF (2024) Analysis of prescription data

Source: England - NHSBSA (2024). Prescription cost analysis 2023 [accessed July 2024]

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

Health Statistics and Analysis Unit (2023). Prescription cost analysis 2022/23. Welsh Government [accessed Feb 2024]

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

Public Health Scotland (2023). Prescription Cost Analysis 2022/23

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

HSC (2024). Prescription Cost Analysis 2023. Business Services Organisation: Belfast

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

Table 3.6 Number of CABGs and PCIs, United Kingdom 1977 to 2022/23[Back to Table of Contents](#)for any content queries please email healthinsights@bhf.org.uk

	Coronary artery bypass surgery (CABG)	Percutaneous coronary interventions (PCI)
1977	2,297	
1978	2,653	
1979	2,918	
1980	4,057	
1981	5,130	
1982	6,008	
1983	8,332	
1984	9,433	
1985	10,667	
1986	10,767	
1987	11,521	
1988	11,113	
1989	12,648	
1990	14,431	
1991	15,659	9,933
1992	19,241	11,575
1993	21,031	12,937
1994	22,056	14,624
1995	22,475	17,344
1996	22,160	20,511
1997	25,639	22,902
1998	25,083	24,899
1999	24,733	28,133
2000	25,127	33,256
2001	24,663	38,992
2002	25,277	44,913
2003	25,461	53,261
2004	25,160	62,780
2005	23,412	70,142
2006	20,941	73,692
2007	22,385	77,373
2008	21,123	80,331
2009	19,245	83,130
2010	18,013	87,676
2011	17,778	88,692
2012	17,142	92,445
2013	17,630	92,589
2014	16,958	96,143
2015	16,166	97,376
2016	15,022	100,483
2017/18	14,731	102,258
2018/19	14,187	100,294
2019/20	14,030	100,112
2020/21	8,451 *	90,708
2021/22	10,947 *	89,079 *
2022/23	11,653 *	84,688 *

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

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

Citation: BHF (2024) Analysis of NICOR/BCIS/SCTS data**Source:** Data from 2021/22 to date from NICOR, Adult Cardiac Surgery (NACSA) [accessed July 2024]<https://www.nicor.org.uk/national-cardiac-audit-programme/cardiac-surgery-audit-nacsa>

Data from 2016 to 2020/21 from British Cardiovascular Intervention Society. BCIS Audit returns .

<https://www.bcis.org.uk/audit-results/>

Table 3.7 Number and rate of PCIs and CABGs, Scotland 2008/09 to 2022/23

[Back to Table of Contents](#)

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Sex	Coronary Artery Bypass Graft (CABG)	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
Males	Discharges	1,581	1,494	1,382	1,291	1,187	1,207	1,300	1,009	1,095	1,135	1,151	1,186	796	884	953
	Crude rate per 100,000 population	62.9	59.0	54.2	50.2	46.1	46.7	50.1	38.7	41.7	43.0	43.5	44.5	29.9	33.1	35.7
	Age standardised discharge rate per 100,000 population	72.2	67.8	62.1	56.5	50.8	51.1	53.8	41.6	44.2	45.1	45.0	45.3	30.2	33.0	35.5
Females	Discharges	450	426	365	351	296	331	324	245	275	266	317	264	184	220	178
	Crude rate per 100,000 population	16.7	15.8	13.4	12.9	10.8	12.1	11.8	8.9	9.9	9.6	11.4	9.4	6.6	7.8	6.3
	Age standardised discharge rate per 100,000 population	17.8	16.6	14.1	13.5	11.2	12.3	11.9	8.9	9.8	9.4	11.0	9.1	6.3	7.4	6.0
All	Discharges	2,031	1,920	1,747	1,642	1,483	1,538	1,624	1,254	1,370	1,401	1,468	1,450	980	1,104	1,131
	Crude rate per 100,000 population	39.0	36.7	33.2	31.0	27.9	28.9	30.4	23.3	25.3	25.8	27.0	26.5	17.9	20.1	20.6
	Age standardised discharge rate per 100,000 population	45.0	42.2	38.1	35.0	31.0	31.7	32.8	25.3	27.0	27.2	28.0	27.2	18.2	20.2	20.8
Sex	Angioplasty (PCI/PCTA)															
Males	Discharges						5,706	5,678	5,962	6,169	6,107	6,174	6,004	5,958	5,964	5,866
	Crude rate per 100,000 population						220.6	218.7	228.4	234.8	231.3	233.1	225.5	223.5	223.2	219.5
	Age standardised discharge rate per 100,000 population						235.8	231.2	240.5	245.5	240.1	239.8	230.2	226.2	224.2	221.0
Females	Discharges						2,305	2,217	2,300	2,297	2,379	2,309	2,260	2,184	2,147	2,263
	Crude rate per 100,000 population						84.1	80.6	83.3	82.7	85.4	82.8	80.7	78.0	76.5	80.6
	Age standardised discharge rate per 100,000 population						84.6	80.0	82.2	81.2	82.8	79.4	77.0	73.8	71.9	75.5
All	Discharges						8,011	7,895	8,262	8,466	8,486	8,483	8,264	8,142	8,111	8,129
	Crude rate per 100,000 population						150.4	147.6	153.8	156.6	156.4	156.0	151.3	149.0	148.0	148.3
	Age standardised discharge rate per 100,000 population						160.2	155.6	161.3	163.3	161.5	159.6	153.6	150.0	148.0	148.3

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

Citation: BHF (2024) Analysis of PHS data

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

All records were extracted from the SMR01 linked database. [accessed Feb 2024]

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

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

[Also includes statistics for valve surgery, revascularisation, angiography]

Please note there is also an alternative dataset for PCI volumes - Scottish Cardiac Audit Programme (SCAP)

<https://publichealthscotland.scot/publications/scottish-cardiac-audit-programme-scap/>

Table 3.8 Number of valve replacements and repairs, United Kingdom 2002/03 to 2022/23

[Back to Table of Contents](#)

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

Citation: BHF (2023) Analysis of SCTS data

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

Operation	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
Aortic valve replacement (AVR) - total activity	11,447	11,353	12,608	12,782	10,547	12,515	13,034
Isolated AVR	5,297	5,041	5,039	4,705	2,818	3,547	3,623
AVR & CABG	2,896	2,657	2,682	2,401	1,401	1,857	1,716
TAVI	3,254	3,655	4,887	5,676	6,328	7,111	7,695

Citation: BHF (2024) Analysis of NICOR data

Source: NICOR, Adult Cardiac Surgery (Surgery Audit) UK data - excluding Scotland (see 3.9) [accessed July 2024]
<https://www.nicor.org.uk/adult-cardiac-surgery-surgery-audit/>

Table 3.9 Number and rate for valve surgery procedures, Scotland 2013/14 to 2022/23[Back to Table of Contents](#)for any content queries please email healthinsights@bhf.org.uk

Sex	Valve Surgery	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
Males	Discharges	718	792	849	819	866	924	981	860	921	1,071
	Crude rate per 100,000 population	27.8	30.5	32.5	31.2	32.8	34.9	36.8	32.3	34.5	40.1
	Age standardised discharge rate per 100,000 population	31.4	34.2	36.1	34.3	36.1	38.0	39.9	34.2	36.9	42.5
Females	Discharges	542	602	595	595	612	664	668	584	607	645
	Crude rate per 100,000 population	19.8	21.9	21.5	21.4	22.0	23.8	23.9	20.9	21.6	23.0
	Age standardised discharge rate per 100,000 population	19.8	21.9	21.4	21.0	21.2	22.8	22.6	19.8	20.0	21.2
All	Discharges	1,260	1,394	1,444	1,414	1,478	1,588	1,649	1,444	1,528	1,716
	Crude rate per 100,000 population	23.6	26.1	26.9	26.2	27.2	29.2	30.2	26.4	27.9	31.3
	Age standardised discharge rate per 100,000 population	25.6	28.0	28.8	27.7	28.7	30.4	31.2	27.0	28.4	31.9

Notes: The European Standard Population (ESP), which was first used in 1976, was revised in 2013. Not comparable with earlier data**Citation:** BHF (2024) Analysis of PHS data**Source:** SMR1/01 records, all inpatient and day case discharges.

All records were extracted from the SMR01 linked database.

[accessed Feb 2024]

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

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

[Also includes statistics for CABGs, PCIs/angioplasty, revascularisation, angiography]

Please note there is also an alternative dataset for TAVI volumes - Scottish Cardiac Audit Programme (SCAP)

<https://publichealthscotland.scot/publications/scottish-cardiac-audit-programme-scap/>

Table 3.10 Cardiothoracic transplant list, United Kingdom 2023/24[Back to Table of Contents](#)for any content queries please email healthinsights@bhf.org.uk

Heart transplant list	New registrations in 2023/24		Total registrations	
	Number	%	Number	%
Remained active / suspended	123	41	375	55
Transplanted	145	48	234	34
Removed	24	8	60	9
Died	9	3	12	2
TOTAL	301		681	

Heart/lung transplant list	Number	Number
Remained active / suspended	3	10
Transplanted #	3	5
Removed	2	5
Died	0	2
TOTAL	8	22

Notes:

Includes re-registrations for second or subsequent transplants

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

Transplant activity for the year ending 31 March 2024

Percentages may not add up to 100 due to rounding

Citation:

BHF (2024) Analysis of NHSBT data

Source:

NHS Blood and Transplant (2024). Organ donation and transplantation. NHS

[accessed July 2024]

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

Table 3.11 Cardiothoracic transplants, by resident nation, United Kingdom 2010/11 to 2023/24

[Back to Table of Contents](#)

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Heart	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Country	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>
England	94	113	119	163	157	167	163	170	158	148	127	136	155	180
Wales	6	8	5	4	7	11	12	3	7	4	6	5	5	10
Scotland	12	13	13	21	16	9	16	16	11	13	21	25	44	33
Northern Ireland	14	4	5	5	0	7	6	8	7	3	3	9	8	8
other #					1		2	1		6	4	3	2	6
UK	126	138	142	193	181	194	199	198	183	174	161	178	214	237

Heart and lung	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Country	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>
England	1	6	2	9	2	5	2	3	1	5	2	3	1	5
Wales	0	0	0	1	2	0	0	0	0	0	0	0	0	0
Scotland	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Northern Ireland	0	0	0	1	0	0	0	0	0	0	0	0	0	0
UK	1	6	2	12	4	5	2	3	1	5	2	3	1	5

ALL HEART and HEART/LUNG TRANSPLANTS

UK	182	200	201	210	187	179	163	182	215	242
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Notes: # patients whose postcodes were unknown, or resided in Isle of Man, Channel Islands or Republic of Ireland. Excludes lung transplant.

Citation: BHF (2024) Analysis of NHSBT data

Source: Organ Donation and Transplantation. Quarterly and annual activity reports. NHS Blood & Transplant, NHS.

[accessed July 2024]

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

Table 3.12 Pacemaker new implants and rate per million population, by country, United Kingdom 2010/11 to 2022/23

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

Country	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22		2022/23
	rate	rate	rate	rate	rate	rate	rate	rate	rate	rate	rate	first implant	total	total
England	528	524	559	594	592	555	555	551	552	558	437	26,999	40,804	44,591
Wales	-	-	565	560	596	523	456	464	500	500	403	1,453	1,860	
Northern Ireland	-	-	402	413	438	430	372							

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

Notes: Pacemaker implant data for England, Wales and Northern Ireland is shown using old method (all procedures except battery changes) for years 2010/11 to 2014/15, and using new method (only first implants) for 2015/16 to 2020/21. Pacemaker data for Scotland are known to be incomplete and are therefore not shown.

Citation: BHF (2024) Analysis of NICOR/EHRA data

Source: Figures for England, Wales and Northern Ireland from National Audit of Cardiac Rhythm Management. [accessed July 2024]

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

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 3.13 Out-of-hospital cardiac arrest (OHCA) overall survival rates, by Ambulance Service, England 2011-12 to 2022-23; April 2011 to Dec 2022

[Back to Table of Contents](#)

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OVERALL SURVIVAL RATES (ALL RESUSCITATION ATTEMPTS)

Ambulance Service	Code	Number of resuscitation attempts by Financial Year												Number of resuscitation attempts by Calendar Year											
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Isle of Wight NHS Trust	R1F	115	100	132	127	139	111	127	124	123	109	136	132	77	110	121	126	142	110	133	126	124	112	123	136
London Ambulance Service NHS Trust	RRU	4,119	4,408	4,239	4,597	4,317	4,357	4,292	3,876	4,242	4,770	4,190	4,533	3,053	4,268	4,341	4,429	4,373	4,348	4,310	4,045	4,070	4,571	4,505	4,461
North East Ambulance Service NHS Foundation Trust	RX6	1,340	1,645	1,611	1,550	1,720	1,882	2,071	1,837	1,913	2,093	2,183	2,310	974	1,603	1,625	1,488	1,717	1,794	2,007	1,904	1,951	2,037	2,193	2,279
North West Ambulance Service NHS Trust	RX7	2,137	3,414	3,502	3,453	3,371	3,734	3,924	3,515	2,950	3,032	3,622	3,997	1,556	3,024	3,660	3,523	3,151	3,612	3,921	3,652	3,153	2,980	3,407	3,982
Yorkshire Ambulance Service NHS Trust	RX8	2,730	3,017	2,838	2,742	2,676	3,079	2,940	3,214	2,452	3,017	3,341	3,720	1,970	2,973	2,908	2,719	2,685	2,965	2,968	3,201	2,643	2,770	3,422	3,638
East Midlands Ambulance Service NHS Trust	RX9	1,487	2,935	2,595	2,608	2,338	2,459	2,227	2,484	2,800	2,959	2,997	3,102	689	2,989	2,674	2,515	2,397	2,466	2,307	2,324	2,864	2,847	3,052	3,053
West Midlands Ambulance Service NHS Foundation Trust	RYA	2,282	2,909	3,861	4,100	4,046	3,794	3,777	3,503	3,579	3,744	3,561	4,004	1,680	2,862	3,470	4,064	4,047	3,850	3,663	3,739	3,485	3,742	3,599	3,938
East of England Ambulance Service NHS Trust	RYC	3,161	3,059	3,073	3,346	3,127	3,468	3,562	3,385	3,594	3,538	3,591	3,722	2,324	3,132	2,970	3,234	3,274	3,280	3,579	3,458	3,569	3,516	3,638	3,650
South East Coast Ambulance Service NHS Foundation Trust	RYD	2,270	2,551	2,691	2,728	2,802	3,021	3,023	2,663	2,589	2,633	2,749	2,853	1,513	2,566	2,721	2,690	2,752	2,995	2,980	2,870	2,550	2,633	2,738	2,838
South Central Ambulance Service NHS Foundation Trust	RYE	1,353	1,031	1,236	1,433	1,392	1,244	1,436	1,962	2,155	2,405	2,418	2,602	1,044	1,103	1,065	1,471	1,450	1,224	1,354	1,816	2,124	2,348	2,392	2,638
South Western Ambulance Service NHS Foundation Trust	RYF	3,142	3,715	3,750	3,722	3,444	3,680	3,910	3,634	3,592	3,095	3,526	3,557	2,242	3,572	3,821	3,660	3,474	3,757	3,750	3,718	3,636	3,285	3,417	3,582
England		24,136	28,784	29,528	30,406	29,372	30,829	31,289	30,197	29,989	31,395	32,314	34,532	17,122	28,202	29,376	29,919	29,462	30,401	30,972	30,853	30,169	30,841	32,486	34,195

Ambulance Service	Code	Number discharged from hospital alive by Financial Year (30-day survival from Jan 2021)												Number discharged from hospital alive by Calendar Year (30-day survival from Jan 2021)											
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Isle of Wight NHS Trust	R1F	5	8	9	7	15	12	14	13	13	9	13	10	4	4	12	9	10	13	13	14	13	12	11	8
London Ambulance Service NHS Trust	RRU	381	390	436	416	388	415	402	419	397	340	397	352	294	369	420	426	413	400	401	424	410	331	387	334
North East Ambulance Service NHS Foundation Trust	RX6	108	101	110	74	102	134	182	190	127	127	212	188	80	113	106	64	112	119	166	194	151	106	205	185
North West Ambulance Service NHS Trust	RX7	174	256	309	321	311	349	382	308	249	231	283	300	138	220	310	324	302	337	388	320	276	207	278	292
Yorkshire Ambulance Service NHS Trust	RX8	167	238	291	292	248	310	301	329	234	263	265	276	134	221	270	286	259	290	313	327	249	251	263	281
East Midlands Ambulance Service NHS Trust	RX9	95	203	128	129	130	149	156	196	218	184	201	250	35	212	148	128	138	127	170	181	208	176	217	228
West Midlands Ambulance Service NHS Foundation Trust	RYA	195	217	253	340	348	339	343	402	399	306	296	272	152	209	243	316	370	316	343	392	402	333	286	290
East of England Ambulance Service NHS Trust	RYC	155	192	200	218	196	293	310	363	302	278	255	250	116	176	196	226	203	248	316	348	332	274	280	210
South East Coast Ambulance Service NHS Foundation Trust	RYD	129	153	198	233	213	248	209	223	229	218	299	271	86	153	198	220	230	237	210	214	223	226	281	274
South Central Ambulance Service NHS Foundation Trust	RYE	76	162	240	240	189	148	212	262	223	204	218	225	41	154	220	242	211	152	191	263	230	204	208	238
South Western Ambulance Service NHS Foundation Trust	RYF	216	334	386	360	307	305	340	370	390	372	358	324	150	321	354	384	310	317	332	357	381	377	367	320
England		1,701	2,254	2,560	2,630	2,447	2,702	2,851	3,075	2,781	2,532	2,797	2,718	1,230	2,152	2,477	2,625	2,558	2,556	2,843	3,034	2,875	2,497	2,783	2,660

Ambulance Service	Code	Discharged from hospital alive % by Financial Year (30-day survival from Jan 2021)												Discharged from hospital alive % by Calendar Year (30-day survival from Jan 2021)											
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Isle of Wight NHS Trust	R1F	4.3	8.0	6.8	5.5	10.8	10.8	11.0	10.5	10.6	8.3	9.6	7.6	5.2	3.6	9.9	7.1	7.0	11.8	9.8	11.1	10.5	10.7	8.9	5.9
London Ambulance Service NHS Trust	RRU	9.2	8.8	10.3	9.0	9.0	9.5	9.4	10.8	9.4	7.1	9.5	7.8	9.6	8.6	9.7	9.6	9.4	9.2	9.3	10.5	10.1	7.2	8.6	7.5
North East Ambulance Service NHS Foundation Trust	RX6	8.1	6.1	6.8	4.8	5.9	7.1	8.8	10.3	6.6	6.1	9.7	8.1	8.2	7.0	6.5	4.3	6.5	6.6	8.3	10.2	7.7	5.2	9.3	8.1
North West Ambulance Service NHS Trust	RX7	8.1	7.5	8.8	9.3	9.2	9.3	9.7	8.8	8.4	7.6	7.8	7.5	8.9	7.3	8.5	9.2	9.6	9.3	9.9	8.8	8.8	6.9	8.2	7.3
Yorkshire Ambulance Service NHS Trust	RX8	6.1	7.9	10.3	10.6	9.3	10.1	10.2	10.2	9.5	8.7	7.9	7.4	6.8	7.4	9.3	10.5	9.6	9.8	10.5	10.2	9.4	9.1	7.7	7.7
East Midlands Ambulance Service NHS Trust	RX9	6.4	6.9	4.9	4.9	5.6	6.1	7.0	7.9	7.8	6.2	6.7	8.1	5.1	7.1	5.5	5.1	5.8	5.2	7.4	7.8	7.3	6.2	7.1	7.5
West Midlands Ambulance Service NHS Foundation Trust	RYA	8.5	7.5	6.6	8.3	8.6	8.9	9.1	11.5	11.1	8.2	8.3	6.8	9.0	7.3	7.0	7.8	9.1	8.2	9.4	10.5	11.5	8.9	7.9	7.4
East of England Ambulance Service NHS Trust	RYC	4.9	6.3	6.5	6.5	6.3	8.4	8.7	10.7	8.4	7.9	7.1	6.7	5.0	5.6	6.6	7.0	6.2	7.6	8.8	10.1	9.3	7.8	7.7	5.8
South East Coast Ambulance Service NHS Foundation Trust	RYD	5.7	6.0	7.4	8.5	7.6	8.2	6.9	8.4	8.8	8.3	10.9	9.5	5.7	6.0	7.3	8.2	8.4	7.9	7.0	7.5	8.7	8.6	10.3	9.7
South Central Ambulance Service NHS Foundation Trust	RYE	5.6	15.7	19.4	16.7	13.6	11.9	14.8	13.4	10.3	8.5	9.0	8.6	3.9	14.0	20.7	16.5	14.6	12.4	14.1	14.5	10.8	8.7	8.7	9.0
South Western Ambulance Service NHS Foundation Trust	RYF	6.9	9.0	10.3	9.7	8.9	8.3	8.7	10.2	10.9	12.0	10.2	9.1	6.7	9.0	9.3	10.5	8.9	8.4	8.9	9.6	10.5	11.5	10.7	8.9
England		7.0	7.8	8.7	8.6	8.3	8.8	9.1	10.2	9.3	8.1	8.7	7.9	7.2	7.6	8.4	8.8	8.7	8.4	9.2	9.8	9.5	8.1	8.6	7.8

Notes: Data for South Western Ambulance Service includes Great Western Ambulance Service up to January 2013, when they merged.

[AmbCO series; accessed July 2024; recent data subject to revision]

Survival to discharge then 30-day survival from Jan 2021

NB statistics for Wales and Northern Ireland are not routinely published

Data from several services were missing for Apr-Oct 2023 at time of publication, so 2023 calendar year is incomplete

Citation: BHF (2024) Analysis of NHS/Warwick OHCA data

Source: NHS England (2024) Ambulance Quality Indicators; Out of Hospital Cardiac Arrest Outcome study, University of Warwick

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

Table 3.14 Out-of-hospital cardiac arrest (OHCA) Utstein survival rates, by Ambulance Service, England 2011-12 to 2022-23; April 2011 to Dec 2022

[Back to Table of Contents](#)

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UTSTEIN COHORT ONLY

Ambulance Service	Code	Number of resuscitation attempts by Financial Year												Number of resuscitation attempts by Calendar Year											
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Isle of Wight NHS Trust	R1F	24	10	28	27	30	23	27	19	20	9	13	19	16	15	23	30	25	28	22	24	20	12	8	21
London Ambulance Service NHS Trust	RRU	536	553	578	518	542	583	571	532	600	526	526	544	399	535	579	521	556	543	579	551	592	547	538	513
North East Ambulance Service NHS Foundation Trust	RX6	318	199	133	166	141	219	331	227	246	291	312	286	230	263	123	146	161	188	303	252	229	302	303	294
North West Ambulance Service NHS Trust	RX7	252	423	417	395	414	464	551	507	476	447	591	602	193	362	447	383	394	448	554	517	499	436	532	603
Yorkshire Ambulance Service NHS Trust	RX8	332	446	382	301	295	510	531	380	337	407	484	442	236	428	397	316	328	423	526	434	335	385	486	460
East Midlands Ambulance Service NHS Trust	RX9	197	482	308	277	281	338	325	343	377	345	409	423	83	475	366	271	267	309	373	319	374	354	395	421
West Midlands Ambulance Service NHS Foundation Trust	RYA	285	315	414	485	489	432	414	472	546	530	536	548	210	335	379	436	519	434	407	456	516	566	527	553
East of England Ambulance Service NHS Trust	RYC	365	388	322	310	313	376	410	415	521	457	533	573	281	384	317	309	323	349	419	394	527	460	518	554
South East Coast Ambulance Service NHS Foundation Trust	RYD	219	314	300	376	392	370	392	394	396	441	489	459	139	313	313	337	380	397	389	394	376	453	464	463
South Central Ambulance Service NHS Foundation Trust	RYE	176	114	160	399	336	359	422	266	297	327	302	318	99	169	125	355	356	347	394	300	295	341	287	340
South Western Ambulance Service NHS Foundation Trust	RYF	482	540	568	567	498	528	630	568	607	505	594	580	353	525	560	585	512	511	587	581	634	519	555	613
England		3,186	3,784	3,610	3,821	3,731	4,202	4,604	4,123	4,423	4,285	4,789	4,794	2,239	3,804	3,629	3,689	3,821	3,977	4,553	4,222	4,397	4,375	4,613	4,835

Ambulance Service	Code	Number discharged from hospital alive by Financial Year (30-day survival from Jan 2021)												Number discharged from hospital alive by Calendar Year (30-day survival from Jan 2021)											
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Isle of Wight NHS Trust	R1F	4	5	6	6	13	7	9	8	5	1	2	4	3	4	6	8	9	9	6	10	6	3	0	5
London Ambulance Service NHS Trust	RRU	167	158	187	163	171	172	182	194	180	146	137	140	123	158	177	168	187	160	179	188	191	148	146	114
North East Ambulance Service NHS Foundation Trust	RX6	82	56	43	44	47	75	116	82	58	90	108	90	64	66	40	36	56	66	104	89	64	84	106	93
North West Ambulance Service NHS Trust	RX7	54	96	99	90	103	122	140	140	129	106	147	137	45	73	111	84	100	118	138	140	144	97	140	131
Yorkshire Ambulance Service NHS Trust	RX8	69	121	124	123	111	188	152	111	117	97	102	99	49	120	109	120	131	149	171	126	111	103	100	105
East Midlands Ambulance Service NHS Trust	RX9	40	114	55	43	54	72	77	88	107	71	84	89	20	101	81	39	55	60	88	82	98	83	80	86
West Midlands Ambulance Service NHS Foundation Trust	RYA	51	46	84	100	120	114	126	156	169	118	132	127	40	48	78	94	119	107	122	150	166	137	122	140
East of England Ambulance Service NHS Trust	RYC	87	97	63	64	74	118	117	162	153	140	123	148	70	90	71	55	81	96	127	148	165	138	136	121
South East Coast Ambulance Service NHS Foundation Trust	RYD	49	52	64	98	83	93	100	100	107	100	141	124	34	54	64	87	88	95	98	94	103	101	132	129
South Central Ambulance Service NHS Foundation Trust	RYE	18	26	60	118	89	82	133	87	89	67	81	96	10	27	42	115	100	79	121	93	95	72	72	107
South Western Ambulance Service NHS Foundation Trust	RYF	82	139	166	157	138	126	145	141	179	142	152	156	63	121	149	177	140	126	138	138	180	144	149	156
England		703	910	951	1,006	1,003	1,169	1,297	1,269	1,293	1,078	1,209	1,210	521	862	928	983	1,066	1,065	1,292	1,258	1,323	1,110	1,183	1,187

Ambulance Service	Code	Discharged from hospital alive % by Financial Year (30-day survival from Jan 2021)												Discharged from hospital alive % by Calendar Year (30-day survival from Jan 2021)											
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2011 (Apr-Dec)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Isle of Wight NHS Trust	R1F	16.7	50.0	21.4	22.2	43.3	30.4	33.3	42.1	25.0	11.1	15.4	21.1	18.8	26.7	26.1	26.7	36.0	32.1	27.3	41.7	30.0	25.0	0.0	23.8
London Ambulance Service NHS Trust	RRU	31.2	28.6	32.4	31.5	31.5	29.5	31.9	36.5	30.0	27.8	26.0	25.7	30.8	29.5	30.6	32.2	33.6	29.5	30.9	34.1	32.3	27.1	27.1	22.2
North East Ambulance Service NHS Foundation Trust	RX6	25.8	28.1	32.3	26.5	33.3	34.2	35.0	36.1	23.6	30.9	34.6	31.5	27.8	25.1	32.5	24.7	34.8	35.1	34.3	35.3	27.9	27.8	35.0	31.6
North West Ambulance Service NHS Trust	RX7	21.4	22.7	23.7	22.8	24.9	26.3	25.4	27.6	27.1	23.7	24.9	22.8	23.3	20.2	24.8	21.9	25.4	26.3	24.9	27.1	28.9	22.2	26.3	21.7
Yorkshire Ambulance Service NHS Trust	RX8	20.8	27.1	32.5	40.9	37.6	36.9	28.6	29.2	34.7	23.8	21.1	22.4	20.8	28.0	27.5	38.0	39.9	35.2	32.5	29.0	33.1	26.8	20.6	22.8
East Midlands Ambulance Service NHS Trust	RX9	20.3	23.7	17.9	15.5	19.2	21.3	23.7	25.7	28.4	20.6	20.5	21.0	24.1	21.3	22.1	14.4	20.6	19.4	23.6	25.7	26.2	23.4	20.3	20.4
West Midlands Ambulance Service NHS Foundation Trust	RYA	17.9	14.6	20.3	20.6	24.5	26.4	30.4	33.1	31.0	22.3	24.6	23.2	19.0	14.3	20.6	21.6	22.9	24.7	30.0	32.9	32.2	24.2	23.1	25.3
East of England Ambulance Service NHS Trust	RYC	23.8	25.0	19.6	20.6	23.6	31.4	28.5	39.0	29.4	30.6	23.1	25.8	24.9	23.4	22.4	17.8	25.1	27.5	30.3	37.6	31.3	30.0	26.3	21.8
South East Coast Ambulance Service NHS Foundation Trust	RYD	22.4	16.6	21.3	26.1	21.2	25.1	25.5	25.4	27.0	22.7	28.8	27.0	24.5	17.3	20.4	25.8	23.2	23.9	25.2	23.9	27.4	22.3	28.4	27.9
South Central Ambulance Service NHS Foundation Trust	RYE	10.2	22.8	37.5	29.6	26.5	22.8	31.5	32.7	30.0	20.5	26.8	30.2	10.1	16.0	33.6	32.4	28.1	22.8	30.7	31.0	32.2	21.1	25.1	31.5
South Western Ambulance Service NHS Foundation Trust	RYF	17.0	25.7	29.2	27.7	27.7	23.9	23.0	24.8	29.5	28.1	25.6	26.9	17.8	23.0	26.6	30.3	27.3	24.7	23.5	23.8	28.4	27.7	26.8	25.4
England		22.1	24.0	26.3	26.3	26.9	27.8	28.2	30.8	29.2	25.2	25.2	25.2	23.3	22.7	25.6	26.6	27.9	26.8	28.4	29.8	30.1	25.4	25.6	24.6

Notes: Data for South Western Ambulance Service includes Great Western Ambulance Service up to January 2013, when they merged.

Utstein: patients who had resuscitation commenced/continued by ambulance service; presumed cardiac-caused OHCA; bystander witnessed; initial rhythm was ventricular fibrillation (VF) or ventricular tachycardia (VT)

Survival to discharge then 30-day survival from Jan 2021 NB statistics for Wales and Northern Ireland are not routinely published;

Citation: BHF (2024) Analysis of NHS/Warwick OHCA data

Source: NHS England (2024) Ambulance Quality Indicators; Out of Hospital Cardiac Arrest Outcome study, University of Warwick

[AmbCO series; accessed July 2024; recent data subject to revision]

Data from several services missing for Apr-Oct 2023 at time of publication, so 2023 calendar year is incomplete

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

Table 3.15 Out-of-hospital cardiac arrest (OHCA) survival rates, Scotland 2011-12 to 2022-23

[Back to Table of Contents](#)

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Scottish Ambulance Service	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Number of resuscitation attempts	2,632	2,992	2,982	3,258	3,136	3,398	3,321	2,860	2,916	2,991	3,136	3,161
Number of survivors (at 30 days)	188	227	225	253	238	289	285	339	309	224	301	290
Number 30-day survivors per million population	35	43	42	47	44	53	53	62	57	41	55	53
Proportion alive at 30 days %	7.1	7.6	7.5	7.8	7.6	8.5	8.6	11.9	10.6	7.5	9.6	9.2

<i>Utstein cohort only</i>	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Number of resuscitation attempts	724	782	781	808	784	806	813	840	762	656	723	711
Number of survivors (at 30 days)	120	143	147	142	141	174	166	210	196	153	189	181
Utstein survival rate at 30 days %	16.6	18.3	18.8	17.6	18.0	21.6	20.4	25.0	25.7	23.3	26.1	25.5

Notes: This series replaces the Scottish Government's linkage project results which appeared in previous compendia
 Utstein - patients who had resuscitation commenced/continued by ambulance service; presumed cardiac-caused OHCA,
 bystander witnessed; initial rhythm was ventricular fibrillation (VF) or ventricular tachycardia (VT)

NB statistics for Wales and Northern Ireland are not routinely published

Citation: BHF (2024) Analysis of Scottish OHCA data [accessed July 2024; updated Aug 2024 via personal correspondence]

Source: Scottish Ambulance Service (2024) Scotland's Out-of-Hospital Cardiac Arrest Report 2022-23 and previous
<https://www.scottishambulance.com/publications/Out-of-Hospital-Cardiac-Arrest-Annual-Report/>



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Heart and Circulatory Disease Statistics 2024 - Chapter 4 - Costs

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

UK

4.1 Economic and healthcare costs of heart and circulatory disease (CVD), UK - 2019/20 to 2021/22

ENGLAND

4.2 Economic and healthcare costs of heart and circulatory disease (CVD), England - 2019/20 to 2021/22

SCOTLAND

4.3 Economic and healthcare costs of heart and circulatory disease (CVD), Scotland - 2019/20 to 2021/22

WALES

4.4 Economic and healthcare costs of heart and circulatory disease (CVD), Wales - 2019/20 to 2021/22

4.5 NHS expenditure on CVD by Health Board, Wales - 2021/22 & 2022/23

NORTHERN IRELAND

4.6 Economic and healthcare costs of heart and circulatory disease (CVD), Northern Ireland - 2019/20 to 2021/22

4.1 Economic and healthcare costs of heart and circulatory diseases (CVD), UK 2019/20 to 2021/22

[Back to Table of Contents](#)

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Healthcare Costs UK (£ millions)	2019/20	2020/21	2021/22
Inpatient Care	5,903	6,259	6,732
Outpatient Care	901	924	1,011
Accident & Emergency	357	392	328
Primary Care	1,424	1,266	1,556
Medications	1,806	1,854	1,940
Medical Devices	307	244	404
Total NHS Costs	10,697	10,939	11,971

Other Costs UK (£ millions)	2019/20	2020/21	2021/22
Long Term Care	4,110	3,834	4,096
Losses from Morbidity	1,805	1,371	1,481
Losses from Mortality	4,158	4,507	4,460
Informal Care	5,715	5,433	6,377
Total Other Costs	15,788	15,146	16,414

Total Cost of CVD	26,486	26,084	28,385
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Notes: Previous compendia included alternative estimates [accessed August 2024]
Latest European Cardiovascular Disease Statistics from European Heart Network (EHN) did not update their series
Analysis includes all heart and circulatory diseases - including care costs for vascular dementia and stroke
Lower estimates for 2020/21 are as a result of reduced cardiovascular activity in hospitals and other settings during the pandemic

Citation: BHF (2024) Analysis of CVD costs

Source: Shah (2023) Economic Burden of Cardiovascular Disease in the UK (LSE dissertation; BHF placement)

4.2 Economic and healthcare costs of heart and circulatory diseases (CVD), England 2019/20 to 2021/22

[Back to Table of Contents](#)

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Healthcare Costs - England (£ millions)	2019/20	2020/21	2021/22
Inpatient Care	4,829	5,252	5,575
Outpatient Care	772	811	884
Accident & Emergency	309	339	287
Primary Care	1,126	977	1,261
Medications	1,498	1,547	1,615
Medical Devices	259	206	341
Total NHS Costs	8,793	9,132	9,963

Other Costs - England (£ millions)	2019/20	2020/21	2021/22
Long Term Care	3,388	3,234	3,457
Losses from Morbidity	1,420	1,059	1,176
Losses from Mortality	3,364	3,550	3,615
Informal Care	4,773	4,540	5,327
Total Other Costs	12,944	12,383	13,575

Total Cost of CVD	21,737	21,515	23,538
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Notes: Previous compendia included alternative estimates [accessed August 2024]
 Latest European Cardiovascular Disease Statistics from European Heart Network (EHN) did not update their series
 Analysis includes all heart and circulatory diseases - including care costs for vascular dementia and stroke
 Lower estimates for 2020/21 are as a result of reduced cardiovascular activity in hospitals and other settings during the pandemic

Citation: BHF (2024) Analysis of CVD costs

Source: Shah (2023) Economic Burden of Cardiovascular Disease in the UK (LSE dissertation; BHF placement)

4.3 Economic and healthcare costs of heart and circulatory diseases (CVD), Scotland 2019/20 to 2021/22

[Back to Table of Contents](#)

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Healthcare Costs - Scotland (£ millions)	2019/20	2020/21	2021/22
Inpatient Care	555.6	484.7	583.2
Outpatient Care	44.1	38.6	43.6
Accident & Emergency	23.1	24.5	18.7
Primary Care	129.7	118.5	111.9
Medications	153.5	148.0	159.0
Medical Devices	25.1	19.9	33.1
Total NHS Costs	931.1	834.3	949.5

Other Costs - Scotland (£ millions)	2019/20	2020/21	2021/22
Long Term Care	349.9	325.2	344.5
Losses from Morbidity	192.9	149.0	136.0
Losses from Mortality	444.9	600.0	480.7
Informal Care	495.1	469.2	552.1
Total Other Costs	1,482.8	1,543.4	1,513.3

Total Cost of CVD	2,413.8	2,377.6	2,462.8
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Notes: Previous compendia included alternative estimates [accessed August 2024]
 Latest European Cardiovascular Disease Statistics from European Heart Network (EHN) did not update their series
 Analysis includes all heart and circulatory diseases - including care costs for vascular dementia and stroke
 Lower estimates for 2020/21 are as a result of reduced cardiovascular activity in hospitals and other settings during the pandemic

Citation: BHF (2024) Analysis of CVD costs

Source: Shah (2023) Economic Burden of Cardiovascular Disease in the UK (LSE dissertation; BHF placement)

4.4 Economic and healthcare costs of heart and circulatory diseases (CVD), Wales 2019/20 to 2021/22

[Back to Table of Contents](#)

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Healthcare Costs - Wales (£ millions)	2019/20	2020/21	2021/22
Inpatient Care	381.1	408.9	430.6
Outpatient Care	59.4	61.6	66.8
Accident & Emergency	13.9	12.9	9.6
Primary Care	131.4	132.9	141.7
Medications	87.3	92.9	98.4
Medical Devices	14.5	11.5	19.1
Total NHS Costs	687.4	720.7	766.2

Other Costs - Wales (£ millions)	2019/20	2020/21	2021/22
Long Term Care	247.4	188.4	201.3
Losses from Morbidity	114.7	98.2	101.5
Losses from Mortality	234.0	242.9	253.4
Informal Care	293.3	278.2	323.7
Total Other Costs	889.3	807.7	879.8

Total Cost of CVD	1,576.8	1,528.4	1,646.1
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Notes: Previous compendia included alternative estimates [accessed August 2024]
 Latest European Cardiovascular Disease Statistics from European Heart Network (EHN) did not update their series
 Analysis includes all heart and circulatory diseases - including care costs for vascular dementia and stroke
 Lower estimates for 2020/21 are as a result of reduced cardiovascular activity in hospitals and other settings during the pandemic

Citation: BHF (2024) Analysis of CVD costs

Source: Shah (2023) Economic Burden of Cardiovascular Disease in the UK (LSE dissertation; BHF placement)

Table 4.5 NHS expenditure on CVD by Health Board, Wales 2021/22 & 2022/23[Back to Table of Contents](#)[for content queries contact healthinsights@bhf.org.uk](mailto:healthinsights@bhf.org.uk)**2022/23**

HSC Trust Name	Expenditure per head / £				Expenditure (£ millions)				Percentage of total expenditure (%)			
	CHD	Stroke	Other CVD	Total CVD	CHD	Stroke	Other CVD	Total CVD	CHD	Stroke	Other CVD	Total CVD
Aneurin Bevan LHB	29.3	35.2	142.5	207.1	17.3	20.8	84.3	122.5	1.0	1.2	4.9	7.1
Betsi Cadwaladr UHB	43.8	51.7	146.1	241.7	30.2	35.6	100.5	166.3	1.5	1.7	4.9	8.1
Cardiff & Vale UHB	29.9	29.2	119.0	178.1	15.1	14.8	60.2	90.0	1.1	1.1	4.4	6.6
Cwm Taf Morgannwg UHB	42.5	37.4	143.2	223.0	18.8	16.6	63.6	99.0	1.4	1.2	4.7	7.3
Hywel Dda UHB	43.4	52.9	156.6	252.9	16.7	20.4	60.3	97.4	1.4	1.7	5.1	8.3
Powys Teaching HB	44.5	74.4	169.4	288.2	6.0	10.0	22.7	38.6	1.5	2.5	5.6	9.6
Swansea Bay UHB	35.1	39.5	164.6	239.1	13.4	15.1	63.1	91.7	1.1	1.3	5.4	7.8
Wales	37.5	42.6	145.2	225.3	117.6	133.3	454.6	705.5	1.3	1.4	4.9	7.6

2021/22

HSC Trust Name	Expenditure per head / £				Expenditure (£ millions)				Percentage of total expenditure (%)			
	CHD	Stroke	Other CVD	Total CVD	CHD	Stroke	Other CVD	Total CVD	CHD	Stroke	Other CVD	Total CVD
Aneurin Bevan LHB	35.3	30.1	133.2	198.6	20.8	17.7	78.3	116.8	1.3	1.1	4.8	7.1
Betsi Cadwaladr UHB	38.3	42.0	136.0	216.3	26.3	28.8	93.4	148.6	1.4	1.5	4.8	7.7
Cardiff & Vale UHB	30.6	31.2	94.8	156.6	15.0	15.4	46.6	77.0	1.2	1.2	3.6	6.0
Cwm Taf Morgannwg UHB	43.7	42.1	133.5	219.2	19.3	18.6	59.0	96.9	1.5	1.4	4.6	7.5
Hywel Dda UHB	45.1	45.3	149.7	240.2	17.3	17.3	57.3	91.9	1.5	1.5	5.1	8.2
Powys Teaching HB	41.2	61.5	148.5	251.1	5.5	8.2	19.8	33.5	1.4	2.1	5.1	8.6
Swansea Bay UHB	38.5	42.8	147.5	228.8	14.6	16.2	56.0	86.9	1.3	1.5	5.0	7.8
Wales	38.3	39.4	132.2	209.8	118.8	122.3	410.5	651.6	1.4	1.4	4.7	7.4

Notes:

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

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

Programme budget categories are defined by reference to ICD-10 codes (NB narrower definition than in Table 4.4)

Citation:

BHF (2024) Analysis of PHW data

Source:

Public Health Wales, NHS expenditure by programme budget category [accessed July 2024]

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

4.6 Economic and healthcare costs of heart and circulatory diseases (CVD), Northern Ireland 2019/20 to 2021/22

[Back to Table of Contents](#)

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Healthcare Costs - Northern Ireland (£ millions)	2019/20	2020/21	2021/22
Inpatient Care	136.9	112.4	143.6
Outpatient Care	25.3	13.0	16.4
Accident & Emergency	11.4	15.6	12.4
Primary Care	36.3	37.8	41.1
Medications	67.5	66.3	67.7
Medical Devices	8.7	6.9	11.5
Total NHS Costs	286.2	252.1	292.6

Other Costs - Northern Ireland (£ millions)	2019/20	2020/21	2021/22
Long Term Care	125.1	85.8	93.4
Losses from Morbidity	77.8	64.9	67.5
Losses from Mortality	115.2	114.1	110.9
Informal Care	153.6	146.4	174.5
Total Other Costs	471.7	411.2	446.3

Total Cost of CVD	757.9	663.3	738.8
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Notes: Previous compendia included alternative estimates [accessed August 2024]
 Latest European Cardiovascular Disease Statistics from European Heart Network (EHN) did not update their series
 Analysis includes all heart and circulatory diseases - including care costs for vascular dementia and stroke
 Lower estimates for 2020/21 are as a result of reduced cardiovascular activity in hospitals and other settings during the pandemic

Citation: BHF (2024) Analysis of CVD costs

Source: Shah (2023) Economic Burden of Cardiovascular Disease in the UK (LSE dissertation; BHF placement)

**Heart and Circulatory Disease Statistics 2024 - Chapter 5 - Risk Factors****IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES IN UK**

5.1	Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, UK, 2011, 2016, 2021
5.2	Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, England, 2021
5.3	Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, Scotland, 2021
5.4	Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, Wales, 2021
5.5	Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, Northern Ireland, 2021

HIGH BLOOD PRESSURE (HYPERTENSION) IN ADULTS

5.6	Prevalence of high blood pressure in adults by age and sex, England and Scotland, latest
5.7	Prevalence of untreated high blood pressure in adults by age and sex, England and Scotland, latest
5.8	Prevalence of high blood pressure, by deprivation quintile, England 2021
5.9	Prevalence of diagnosed high blood pressure by nation and region, United Kingdom, latest available
5.10	Prevalence of high blood pressure from CVDPREVENT, unadjusted percentages and age-standardised by deprivation quintile, England, Mar 2024
5.11	Prevalence of high blood pressure from CVDPREVENT, unadjusted percentages by sex and age, plus age-standardised by gender, England, Mar 2024
5.12	Prevalence of high blood pressure from GP patient registers, diagnosed percentages by deprivation decile, England, latest available
5.13	Prevalence of high blood pressure from GP patient registers, by sex and age, Wales 2021/22

DIABETES IN ADULTS

5.14	Prevalence of doctor-diagnosed diabetes in adults by age and sex, England and Scotland, latest
5.15	Prevalence of diagnosed diabetes by nation and region, UK, latest
5.16	Prevalence of diabetes from GP patient registers, diagnosed percentages by deprivation decile, England 2022/23
5.17	Prevalence of diabetes (diagnosed and undiagnosed) from health surveys by deprivation, England
5.18	Prevalence of diabetes (current and lifetime) from health survey by deprivation quintile, Scotland 2022

CHOLESTEROL LEVEL IN ADULTS

5.19	Percentage of adults with raised cholesterol by age and sex, England, 2019
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CHRONIC KIDNEY DISEASE IN ADULTS

5.20	Prevalence of chronic kidney disease (CKD) by nation and region, latest
5.21	Prevalence of chronic kidney disease (CKD) from GP patient registers, diagnosed percentages by deprivation decile, England, 2022/23
5.22	Prevalence of chronic kidney disease (CKD) from CVDPREVENT, unadjusted percentages and age-standardised by deprivation quintile, England, Mar 2024
5.23	Prevalence of chronic kidney disease (CKD) from CVDPREVENT, unadjusted percentages by sex and age, plus age-standardised by sex, England, Mar 2024

OVERWEIGHT AND OBESITY IN ADULTS

5.24	Prevalence of overweight (including obese) in adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest
5.25	Prevalence of obesity in adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest
5.26	Prevalence of obesity in adults by deprivation quintile, England, Scotland, Wales, Northern Ireland, latest

OVERWEIGHT AND OBESITY IN CHILDREN

5.27	Prevalence of overweight and obesity in children by age and sex, England, Scotland and Northern Ireland; UK health survey estimate, latest
5.28	Prevalence of overweight and obesity in children, England, Scotland and Wales, child measurement programme, latest

PHYSICAL INACTIVITY IN ADULTS

5.29	Percentage of adults NOT meeting physical activity recommendations by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest
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SMOKING IN ADULTS

5.30	Prevalence of cigarette smoking among adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest
5.31	Prevalence of cigarette smoking among adults by deprivation quintile, England, Scotland, Wales, Northern Ireland, latest

ALCOHOL CONSUMPTION IN ADULTS

5.32	Percentage of adults exceeding weekly alcohol consumption guidelines by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest
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FRUIT AND VEGETABLE CONSUMPTION IN ADULTS

5.33	Percentage of adults NOT meeting 5-a-day fruit and vegetable recommendations by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest
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AIR POLLUTION LEVELS IN UK

5.34	Levels of air pollution (fine particulate matter; PM _{2.5}) by nation and region, United Kingdom 2019 to 2022
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GLOBAL IMPACT OF RISK FACTORS ON HEART AND CIRCULATORY DISEASES

5.35	Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors - global estimates, 2021
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Table 5.1 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, UK, 2011, 2016, 2021

[Back to Table of Contents](#)

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Reset to Published Order	RISK FACTOR (% attributable)	estimated burden - UK DEATHS and attributable totals (k)												estimated burden - UK DALYS								
		Heart and circulatory diseases (CVD)				Coronary heart disease (CHD)				Stroke (CBVD)				Heart and circulatory diseases (CVD)			Coronary heart disease (CHD)			Stroke (CBVD)		
		2011	2016	2021	2021 deaths (k)	2011	2016	2021	2021 deaths (k)	2011	2016	2021	2021 deaths (k)	2011	2016	2021	2011	2016	2021	2011	2016	2021
	All modifiable risk factors	73.5%	71.3%	70.9%		89.3%	88.8%	89.0%		77.9%	76.5%	76.7%		71.9%	69.9%	69.5%	90.6%	90.2%	90.3%	78.3%	77.1%	77.4%
	High systolic blood pressure (hypertension)	42.2%	41.2%	41.3%	65.9	47.9%	47.3%	47.8%	36.5	50.8%	50.1%	50.7%	20.7	40.8%	39.9%	39.9%	47.7%	47.1%	47.6%	51.6%	51.0%	51.6%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	25.9%	25.2%	25.0%	40.0	43.8%	43.9%	43.8%	33.5	6.7%	6.6%	6.5%	2.7	27.0%	26.3%	25.9%	47.6%	47.7%	47.5%	7.6%	7.5%	7.6%
	High LDL (bad) cholesterol	20.7%	19.4%	19.2%	30.6	31.3%	31.2%	31.2%	23.8	18.0%	16.9%	16.5%	6.7	22.3%	21.1%	20.8%	36.5%	36.4%	36.2%	17.9%	17.0%	17.1%
	Impaired kidney function (dysfunction; renal failure)	12.5%	11.7%	11.8%	18.8	18.7%	18.2%	18.4%	14.1	9.0%	8.6%	8.8%	3.6	10.1%	9.5%	9.6%	15.6%	15.1%	15.4%	8.1%	7.8%	8.0%
	High body-mass index (obesity and excess weight)	10.3%	10.7%	11.1%	17.7	13.3%	13.8%	14.2%	10.9	4.9%	5.0%	5.2%	2.1	11.8%	12.1%	12.4%	15.8%	16.3%	16.7%	6.5%	6.7%	7.0%
	Tobacco (cigarette smoking, second-hand smoke)	12.5%	11.2%	10.8%	17.2	16.1%	15.0%	14.7%	11.2	9.3%	8.5%	8.3%	3.4	15.8%	14.1%	13.5%	21.3%	19.9%	19.3%	13.1%	12.1%	11.6%
	High fasting plasma glucose (diabetes)	9.6%	9.6%	10.2%	16.3	12.1%	12.8%	13.7%	10.4	10.5%	10.5%	11.0%	4.5	8.6%	8.7%	9.3%	11.5%	12.2%	13.1%	9.5%	9.6%	10.2%
	Non-optimal (low/high) temperature	5.4%	5.6%	5.5%	8.7	5.2%	5.6%	5.5%	4.2	8.7%	9.1%	9.0%	3.7	4.7%	4.9%	4.8%	5.1%	5.4%	5.3%	7.3%	7.6%	7.3%
	Air pollution (particulate matter)	7.6%	5.8%	5.4%	8.6	10.9%	8.7%	8.2%	6.3	7.6%	6.0%	5.7%	2.3	7.2%	5.5%	5.1%	10.9%	8.7%	8.2%	7.6%	6.0%	5.6%
	Low physical activity (inactivity, sedentary behaviour)	4.2%	3.9%	3.8%	6.1	6.6%	6.6%	6.5%	5.0	2.9%	2.7%	2.7%	1.1	3.8%	3.6%	3.6%	5.8%	5.8%	5.8%	3.6%	3.4%	3.5%
	Other environmental risks (e.g. lead exposure)	3.2%	3.1%	2.9%	4.7	3.6%	3.4%	3.3%	2.5	3.6%	3.5%	3.3%	1.4	3.0%	2.8%	2.6%	3.4%	3.2%	3.0%	3.6%	3.4%	3.2%
	High alcohol use (misuse; binge drinking)	1.3%	1.4%	1.5%	2.3	*	*	*	*	8.8%	8.5%	8.8%	3.6	1.3%	1.5%	1.6%	*	*	*	9.0%	8.8%	9.1%
	Other (non-modifiable) risk factors/unknown	26.5%	28.7%	29.1%		10.7%	11.2%	11.0%		22.1%	23.5%	23.3%		28.1%	30.1%	30.5%	9.4%	9.8%	9.7%	21.7%	22.9%	22.6%

Notes

Annual attributable deaths rounded. All figures are modelled estimates; inputs will be revised and therefore results can differ significantly between each edition.

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

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

* = does not show as a risk factor for this condition

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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8,

I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

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

Citation: BHF (2024) Analysis of GBD data

Source: Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2021 Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

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

[accessed July 2024]

Table 5.2 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, England, 2021

[Back to Table of Contents](#)

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Reset to Published Order	RISK FACTOR (% attributable)	2021 estimated burden - England DEATHS			2021 attributable deaths (annual k)			2021 estimated burden - England DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	70.3%	88.7%	75.8%				68.9%	90.1%	76.5%
	High systolic blood pressure (hypertension)	40.0%	46.6%	49.0%	52.1	28.8	16.0	38.8%	46.6%	50.0%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	24.9%	43.8%	6.5%	32.5	27.1	2.1	25.8%	47.4%	7.5%
	High LDL (bad) cholesterol	18.9%	31.1%	16.3%	24.6	19.2	5.3	20.5%	36.1%	16.7%
	Impaired kidney function (dysfunction; renal failure)	11.6%	18.4%	8.7%	15.1	11.4	2.8	9.5%	15.4%	7.8%
	High body-mass index (obesity and excess weight)	10.9%	14.0%	5.1%	14.2	8.6	1.7	12.3%	16.4%	6.8%
	Tobacco (cigarette smoking, second-hand smoke)	10.6%	14.4%	8.1%	13.7	8.9	2.7	13.2%	18.8%	11.4%
	High fasting plasma glucose (diabetes)	10.4%	14.1%	11.2%	13.5	8.7	3.7	9.5%	13.5%	10.3%
	Air pollution (particulate matter)	5.8%	8.9%	6.2%	7.5	5.5	2.0	5.6%	8.9%	6.1%
	Non-optimal (low/high) temperature	5.4%	5.6%	8.8%	7.0	3.4	2.9	4.7%	5.3%	7.3%
	Low physical activity (inactivity, sedentary behaviour)	3.8%	6.6%	2.6%	5.0	4.1	0.9	3.5%	5.9%	3.4%
	Other environmental risks (e.g. lead exposure)	2.7%	3.0%	3.0%	3.5	1.8	1.0	2.4%	2.7%	2.9%
	High alcohol use (misuse; binge drinking)	1.5%	*	8.8%	1.9	*	2.9	1.6%	*	9.1%
	<i>Other (non-modifiable) risk factors/unknown</i>	<i>29.7%</i>	<i>11.3%</i>	<i>24.2%</i>				<i>31.1%</i>	<i>9.9%</i>	<i>23.5%</i>

Notes

Annual attributable deaths rounded. All figures are modelled estimates; inputs will be revised and therefore results can differ significantly between each edition.

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

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

* = does not show as a risk factor for this condition

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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8,

I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

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

Citation:

BHF (2024) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.

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

Global Burden of Disease Study 2021 Results.

[accessed July 2024]

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

Table 5.3 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Scotland, 2021

[Back to Table of Contents](#)

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Reset to Published Order	RISK FACTOR (% attributable)	2021 estimated burden - Scotland DEATHS			2021 attributable deaths (annual k)			2021 estimated burden - Scotland DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	74.5%	89.9%	80.6%				73.2%	91.1%	81.1%
	High systolic blood pressure (hypertension)	46.4%	52.3%	57.5%	7.8	4.3	2.7	44.2%	50.5%	56.8%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	25.1%	44.1%	6.2%	4.2	3.7	0.3	26.4%	48.4%	7.7%
	High LDL (bad) cholesterol	20.5%	31.6%	17.8%	3.5	2.6	0.8	22.7%	36.7%	19.7%
	Tobacco (cigarette smoking, second-hand smoke)	12.9%	17.4%	9.6%	2.2	1.4	0.5	15.9%	22.3%	13.2%
	Impaired kidney function (dysfunction; renal failure)	12.6%	18.7%	9.5%	2.1	1.5	0.4	10.6%	15.9%	9.0%
	High body-mass index (obesity and excess weight)	11.9%	15.7%	5.9%	2.0	1.3	0.3	13.4%	18.3%	7.9%
	High fasting plasma glucose (diabetes)	9.0%	11.2%	9.9%	1.5	0.9	0.5	8.4%	10.7%	9.8%
	Air pollution (particulate matter)	6.0%	5.4%	10.5%	1.0	0.4	0.5	5.0%	5.2%	7.8%
	Other environmental risks (e.g. lead exposure)	3.7%	4.1%	4.3%	0.6	0.3	0.2	3.4%	3.9%	4.2%
	Low physical activity (inactivity, sedentary behaviour)	3.6%	5.5%	2.9%	0.6	0.5	0.1	3.4%	4.7%	4.1%
	Non-optimal (low/high) temperature	3.0%	4.4%	3.0%	0.5	0.4	0.1	2.9%	4.4%	3.0%
	High alcohol use (misuse; binge drinking)	1.6%	*	9.2%	0.3	*	0.4	1.9%	*	9.8%
	<i>Other (non-modifiable) risk factors/unknown</i>	25.5%	10.1%	19.4%				26.8%	8.9%	18.9%

Notes

Annual attributable deaths rounded. All figures are modelled estimates; inputs will be revised and therefore results can differ significantly between each edition.

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

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

* = does not show as a risk factor for this condition

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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8,

I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

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

Citation:

BHF (2024) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2021 Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

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

[accessed July 2024]

Table 5.4 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Wales, 2021

[Back to Table of Contents](#)

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Reset to Published Order	RISK FACTOR (% attributable)	2021 estimated burden - Wales DEATHS			2021 attributable deaths (annual)			2021 estimated burden - Wales DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	72.6%	89.9%	79.5%				70.3%	91.2%	79.9%
	High systolic blood pressure (hypertension)	45.5%	52.6%	56.9%	3,980	2,260	1,260	43.1%	51.9%	57.0%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	25.8%	44.1%	7.5%	2,260	1,890	170	26.9%	48.4%	8.8%
	High LDL (bad) cholesterol	19.9%	31.9%	16.8%	1,740	1,370	370	21.4%	37.0%	17.0%
	Impaired kidney function (dysfunction; renal failure)	12.3%	19.0%	9.3%	1,080	810	210	10.2%	16.2%	8.6%
	High body-mass index (obesity and excess weight)	11.3%	14.6%	5.3%	980	630	120	12.7%	17.3%	7.3%
	Tobacco (cigarette smoking, second-hand smoke)	10.8%	14.6%	8.2%	950	620	180	13.8%	19.6%	11.8%
	High fasting plasma glucose (diabetes)	9.8%	12.8%	10.6%	860	550	230	8.7%	12.1%	9.6%
	Non-optimal (low/high) temperature	5.2%	5.1%	8.7%	450	220	190	4.5%	4.9%	7.1%
	Low physical activity (inactivity, sedentary behaviour)	5.0%	8.5%	3.2%	440	370	70	4.5%	7.5%	4.0%
	Other environmental risks (e.g. lead exposure)	4.6%	5.2%	5.3%	400	220	120	4.1%	4.9%	5.2%
	Air pollution (particulate matter)	4.4%	6.7%	4.6%	390	290	100	4.2%	6.7%	4.6%
	High alcohol use (misuse; binge drinking)	1.0%	*	8.1%	90	*	180	1.1%	*	8.6%
	<i>Other (non-modifiable) risk factors/unknown</i>	<i>27.4%</i>	<i>10.1%</i>	<i>20.5%</i>				<i>29.7%</i>	<i>8.8%</i>	<i>20.1%</i>

Notes

Annual attributable deaths rounded. All figures are modelled estimates; inputs will be revised and therefore results can differ significantly between each edition.

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

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

* = does not show as a risk factor for this condition

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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8,

I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

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

Citation:

BHF (2024) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2021 Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

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

[accessed July 2024]

Table 5.5 Percentage of heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) attributable to modifiable risk factors, Northern Ireland, 2021

[Back to Table of Contents](#)

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Reset to Published Order	RISK FACTOR (% attributable)	2021 estimated burden - NI DEATHS			2021 attributable deaths (annual)			2021 estimated burden - NI DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	73.9%	89.9%	80.0%				72.2%	91.0%	80.2%
	High systolic blood pressure (hypertension)	49.8%	56.5%	60.0%	2,030	1,100	710	47.3%	55.4%	59.7%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	24.6%	43.3%	6.9%	1,000	840	80	25.7%	47.0%	7.8%
	High LDL (bad) cholesterol	19.8%	31.6%	16.4%	810	610	190	21.7%	37.2%	16.9%
	High body-mass index (obesity and excess weight)	11.3%	14.6%	5.3%	460	280	60	13.0%	17.5%	7.2%
	Impaired kidney function (dysfunction; renal failure)	10.7%	16.5%	8.2%	440	320	100	8.8%	13.8%	7.5%
	High fasting plasma glucose (diabetes)	10.0%	13.0%	10.8%	410	250	130	9.0%	12.2%	9.9%
	Tobacco (cigarette smoking, second-hand smoke)	9.2%	13.0%	6.8%	370	250	80	12.5%	18.2%	10.4%
	Non-optimal (low/high) temperature	5.6%	5.3%	9.0%	230	100	110	4.8%	5.1%	7.4%
	Air pollution (particulate matter)	4.1%	6.0%	4.1%	160	120	50	3.9%	6.0%	4.1%
	Other environmental risks (e.g. lead exposure)	3.5%	4.0%	4.1%	140	80	50	3.2%	3.7%	4.0%
	Low physical activity (inactivity, sedentary behaviour)	2.3%	3.6%	2.2%	100	70	30	2.1%	2.9%	2.7%
	High alcohol use (misuse; binge drinking)	1.5%	*	7.4%	60	*	90	1.6%	*	7.9%
	<i>Other (non-modifiable) risk factors/unknown</i>	<i>26.1%</i>	<i>10.1%</i>	<i>20.0%</i>				<i>27.8%</i>	<i>9.0%</i>	<i>19.8%</i>

Notes

Annual attributable deaths rounded. All figures are modelled estimates; inputs will be revised and therefore results can differ significantly between each edition.

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

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

* = does not show as a risk factor for this condition

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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8,

I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

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

Citation:

BHF (2024) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2021 Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

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

[accessed July 2024]

Table 5.6 Prevalence of high blood pressure in adults by age and sex, England and Scotland, latest

[Back to Table of Contents](#)

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Estimated prevalence

Age in years	England 2021						Age in years	Scotland 2018/19					
	Men		Women		All			Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s		%	(000)s	%	(000)s	%	(000)s
							16-24	2	6	-	*	1	6
							25-34	8	27	6	21	7	48
							35-44	10	33	11	39	11	72
							45-54	33	115	18	66	26	180
16-44	11	1,100	8	800	9	1,900	55-64	49	185	42	170	45	360
45-64	39	2,800	32	2,400	35	5,200	65-74	62	180	58	180	60	360
65+	59	2,900	60	3,500	60	6,300	75+	64	135	77	220	71	360
All Adults	32	6,800	29	6,700	30	13,500	All Adults	31	680	28	700	29	1,380

Notes:

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

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

Does not include high blood pressure while pregnant.

All population figures are health survey results applied to latest official population estimates published by age, sex and nation by ONS/NRS

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

Citation:

BHF (2024) Analysis of health survey data

Source:

NHS England (2023). Health Survey for England 2021 part 2, Adult Health Tables [accessed Feb 2024]

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

The Scottish Government (2020). The Scottish Health Survey 2019 [NB there has been no new nurse fieldwork]

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

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

[Back to Table of Contents](#)

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Age in years	England 2021						Age in years	Scotland 2018/19					
	Men %	(000)s	Women %	(000)s	All %	(000)s		Men %	(000)s	Women %	(000)s	All %	(000)s
							16-24	2	6	*	*	1	6
							25-34	8	27	4	14	6	41
							35-44	8	27	10	35	9	62
							45-54	22	76	15	55	19	130
							55-64	35	135	23	93	28	230
16-44	8	840	5	530	6	1,370	65-74	23	66	27	84	25	150
45-64	25	1,800	18	1,300	22	3,100	75+	24	51	35	100	30	150
65+	19	950	25	1,440	22	2,400	All Adults	18	385	16	380	17	770
All Adults	17	3,600	14	3,300	15	6,900							

Notes:

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

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

All population figures are health survey results applied to latest official population estimates published by age, sex and nation by ONS/NRS/NISRA

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

Citation:

BHF (2024) Analysis of health survey data

Source:

NHS England (2023). Health Survey for England 2021 part 2, Adult Health Tables [accessed February 2024]

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

The Scottish Government (2020). The Scottish Health Survey 2019 [there has been no new nurse fieldwork]

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

Table 5.8 Prevalence of high blood pressure by deprivation quintile, England 2021

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

Type	Estimated prevalence					
	England 2021					
	Most deprived	2nd most	3rd most	4th most	Least deprived	All
Hypertensive controlled	10	9	10	5	5	8
Hypertensive uncontrolled	13	5	4	8	5	7
Hypertensive untreated	18	16	18	13	12	15
All with hypertension	40	30	32	25	23	30

Notes:

Hypertensive controlled: systolic blood pressure (SBP) below 140mmHg and/or diastolic blood pressure (DBP) below 90mmHg, currently taking medication for blood pressure.
Hypertensive uncontrolled: SBP at or greater than 140mmHg and DBP at or greater than 90mmHg, currently taking medication for blood pressure.
Hypertensive untreated: SBP at or greater than 140mmHg and/or DBP at or greater than 90mmHg, not currently taking medication for blood pressure.
Adults aged 16 and over with a valid blood pressure reading and data on medication.
Does not include high blood pressure while pregnant. Data in this table are age-standardised.

Citation:

BHF (2024) Analysis of England health survey data

Source:

NHS England (2023). Health Survey for England 2021 part 2, Adult Health Tables [accessed July 2024]
<https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england>

Table 5.9 Prevalence of diagnosed high blood pressure by nation and region, United Kingdom, latest available

[Back to Table of Contents](#)

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Nation/Region	ONS Code	List size	Hypertension Register	
			N	%
East Midlands	E12000004	5,240,875	805,546	15.4
East of England	E12000006	6,822,379	1,009,281	14.8
London	E12000007	10,866,351	1,186,951	10.9
North East England	E12000001	2,848,210	472,982	16.6
North West England	E12000002	8,107,096	1,224,476	15.1
South East England	E12000008	10,038,401	1,465,643	14.6
South West England	E12000009	6,048,667	947,585	15.7
West Midlands	E12000005	6,498,565	984,895	15.2
Yorkshire and The Humber	E12000003	5,953,161	904,586	15.2
England (2022/23)	E92000001	62,423,705	9,001,945	14.4
Scotland (2018/19)	S92000003	5,723,722	790,800	13.8
Wales (2021/22)	W92000004	3,305,351	519,197	15.7
Northern Ireland (2023/24)	N92000002	2,050,887	293,503	14.3
United Kingdom (UK)	K02000001	73,503,665	10,605,445	14.4

Notes:

These data show total numbers of people on GP patient registers in each area. GPs allocated to region and nation by main surgery postcode (BHF using CACI InSite) BHF analysis - adjustments have been made for England & Scotland where active practices did not file patient register numbers in the latest available year.

Citation:

BHF (2024) Analysis of UK GP patient register data

Source:

England - NHS England - Quality & Outcomes Framework (QOF) prevalence data 2022/23 [accessed Nov 2023]

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

Wales - StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2021/22 [accessed Nov 2023]

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

Scotland - Public Health Scotland. Patient counts from GP prevalence data 2018/19 with BHF analysis [SPIRE not included here as it only had 60% coverage]

<https://publichealthscotland.scot/publications/general-practice-disease-prevalence-data-visualisation/>

Northern Ireland - Department of Health, Quality & Outcomes Framework (QOF) prevalence data 2023/24 [accessed July 2024]

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

Table 5.10 Prevalence of high blood pressure from CVDPREVENT, unadjusted percentages and age-standardised by deprivation quintile, England, Mar 2024

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

Condition(s)	Code	All %	IMD Quintiles					Age Standardised IMD Quintiles				
			Most deprived quintile %	2nd %	3rd %	4th %	Least deprived quintile %	Most deprived quintile %	2nd %	3rd %	4th %	Least deprived quintile %
High blood pressure	CVDP001HYP	16.41	15.04	15.42	16.62	17.58	17.62	19.65	18.01	16.33	15.61	14.73

Notes: CVDPREVENT = Cardiovascular Disease Prevention Audit. Produced by Office for Health Improvement and Disparities (OHID) and the NHS Benchmarking Network.
Data snapshot March 2024; published July 2024 - updates are issued quarterly

Citation: OHID/NHS (2024) Analysis of England GP prevalence data

Source: CVDPREVENT data (OHID & NHS England 2024)
<https://www.cvdprevent.nhs.uk/data-explorer>

All data are diagnosed, adults 18 and over

Table 5.11 Prevalence of high blood pressure from CVDPREVENT, unadjusted percentages by sex and age, plus age-standardised by sex, England, Mar 2024

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

Condition	Code	All Adults					Male					Female					Age Standardised		
		All 18+	18-39	40-59	60-79	80+	Male 18+	18-39	40-59	60-79	80+	Female 18+	18-39	40-59	60-79	80+	All	Male	Female
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
High blood pressure	CVDP001HYP	16.41	1.00	12.38	36.76	56.13	16.46	1.03	13.17	38.95	54.22	16.37	0.97	11.54	34.70	57.49	17.40	18.18	16.58

Notes: CVDPREVENT = Cardiovascular Disease Prevention Audit. Produced by Office for Health Improvement and Disparities (OHID) and the NHS Benchmarking Network.

Data March 2024 snapshot; published July 2024 - updates are issued quarterly

Citation: OHID/NHS (2024) Analysis of England GP prevalence data

Source: CVDPREVENT data (OHID & NHS England 2024)

<https://www.cvdprevent.nhs.uk/data-explorer>

All data are diagnosed, adults 18 and over

Table 5.12 Prevalence of high blood pressure from GP patient registers, diagnosed percentages by deprivation decile, England , latest available

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

	Year	IMD Geography	IMD Deciles										
			ALL	Most deprived	2nd	3rd	4th	5th	6th	7th	8th	9th	Least deprived
			%	%	%	%	%	%	%	%	%	%	%
High blood pressure	2022/23	2023 districts/UA	14.42	13.75	13.82	13.67	14.92	14.72	14.66	15.51	15.56	14.74	14.20

Notes: IMD: index of multiple deprivation
NB diagnosis gaps for many condition (e.g. high blood pressure) are often thought to be highest in areas of greatest deprivation
[See also age-standardised data from CVDPrevent Table 5.10](#)

Citation: OHID (2024) Analysis of NHSE QOF data

Source: OHID analysis of QOF prevalence data (NHS England 2023); deprivation deciles in England based on IMD 2019
<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data>
<https://fingertips.phe.org.uk/> [accessed July 2024]

Table 5.13 Prevalence of high blood pressure from GP patient registers, by sex and age, Wales 2021/22

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

	15 to 19 %	20 to 24 %	25 to 29 %	30 to 34 %	35 to 39 %	40 to 44 %	45 to 49 %	50 to 54 %	55 to 59 %	60 to 64 %	65 to 69 %	70 to 74 %	75 to 79 %	80 to 84 %	85 to 89 %	90 to 94 %	95 and over %
ALL	0.1	0.2	0.5	1.1	2.4	4.8	8.9	14.8	21.0	27.8	36.4	44.5	52.0	57.9	62.3	63.7	61.0
MALE	0.1	0.2	0.5	1.1	2.5	5.1	9.4	16.0	22.8	30.5	39.3	46.7	52.7	56.7	59.5	58.7	53.4
FEMALE	0.1	0.3	0.5	1.1	2.3	4.5	8.5	13.6	19.1	25.2	33.7	42.4	51.3	58.8	64.3	66.4	63.8

Notes: GP-diagnosed cases only
Citation: StatsWales (2024) Welsh disease prevalence data
Source: StatsWales. Disease prevalence rates by age band and gender (Audit+) 2021/22 [accessed Feb 2024]
<https://statswales.gov.wales/Catalogue/Health-and-Social-Care/NHS-Primary-and-Community-Activity/GMS-Contract>

Table 5.14 Prevalence of diabetes in adults by age and sex, England and Scotland, latest[Back to Table of Contents](#)for any content queries please email healthinsights@bhf.org.uk

Age in years	England 2021			Scotland 2022		
	Men %	Women %	All %	Men %	Women %	All %
16-24	0.7	0.6	0.7	2	3	2
25-34	1.4	0.3	0.9	2	*	1
35-44	2.8	2.4	2.6	3	2	2
45-54	3.7	5.0	4.4	6	5	5
55-64	10.7	6.6	8.6	13	9	11
65-74	17.1	12.7	14.8	22	14	18
75+	19.0	13.2	15.8	16	10	13
All Adults	6.9	5.4	6.1	8	6	7

Notes: Excludes diabetes in pregnancy. Adults asked if doctor-diagnosed.

Citation: BHF (2024) Analysis of health survey data * reported as zero, but rounded

Source: NHS England (2023). Health Survey for England 2021 part 2, Adult Health Tables [accessed Feb 2024]

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

The Scottish Government (2023). The Scottish Health Survey 2022 [accessed Feb 2024]

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

Table 5.15 Prevalence of diagnosed diabetes by nation and region, United Kingdom, latest[Back to Table of Contents](#)for any content queries please email healthinsights@bhf.org.uk

ONS Code	Nation/Region	Diabetes Register	
		Patients	Aged 17+ %
E12000004	East Midlands	337,328	7.9
E12000006	East of England	402,674	7.3
E12000007	Greater London	610,432	6.9
E12000001	North East England	193,187	8.3
E12000002	North West England	501,464	7.7
E12000008	South East England	557,945	6.9
E12000009	South West England	358,726	7.2
E12000005	West Midlands	436,713	8.4
E12000003	Yorkshire and The Humber	379,581	7.9
E92000001	England	3,778,050	7.5
S92000003	Scotland	295,970	n/a
W92000004	Wales	213,922	8.0
N92000002	Northern Ireland	114,673	7.0
K02000001	United Kingdom	4,402,615	n/a

Notes:

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

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

With BHF analysis - adjustments have been made where active practices did not file patient data in the latest available year (previous data features instead)

Citation:

BHF (2024) Analysis of UK GP patient register data

Source:

England - NHS England - Quality & Outcomes Framework (QOF) prevalence data 2022/23 [accessed Feb 2024]

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

Wales - StatsWales. Quality Assurance and Improvement Framework (QAIF) disease registers 2021/22 [accessed Feb 2024]

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

Scotland - Public Health Scotland. GP prevalence data 2018/19 [no updates as of Feb 2024]

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

Northern Ireland - Department of Health, Quality & Outcomes Framework (QOF) prevalence data 2023/24 [accessed July 2024]

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

Table 5.16 Prevalence of diabetes from GP patient registers, diagnosed percentages by deprivation decile, England , 2022/23

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

			IMD Deciles										
Year	IMD Geography	ALL	Most deprived	2nd	3rd	4th	5th	6th	7th	8th	9th	Least deprived	
		%	%	%	%	%	%	%	%	%	%	%	
Diabetes 17+	2022/23	2023 county/UA	7.45	8.32	8.76	7.26	7.42	7.96	6.96	7.59	7.36	7.18	5.98

Notes:

Patients aged 17+ with diabetes mellitus.

IMD: index of multiple deprivation

NB diagnosis gaps for many condition are often thought to be highest in areas of greatest deprivation

Citation:

OHID (2024) Analysis of NHSE QOF data

Source:

OHID analysis of QOF prevalence data (NHS England 2023); deprivation deciles in England based on IMD 2019

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

<https://fingertips.phe.org.uk/>

[accessed July 2024]

Table 5.17 Prevalence of diabetes (diagnosed and undiagnosed) from health survey by deprivation quintile, England 2021

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk.

Type	Estimated prevalence					
	England 2021					
	Most deprived	2nd most	3rd most	4th most	Least deprived	All
Diagnosed diabetes	10.4	6.6	7.5	6.8	4.4	6.9
Undiagnosed diabetes	5.6	2.5	2.1	3.1	3.2	3.2
Total diabetes	16.0	9.1	9.6	9.9	7.5	10.1

Notes: Total diabetes refers to the proportion of participants who reported having diagnosed diabetes and/or with a glycated haemoglobin (HbA1c) of 48mmol/mol or above. Undiagnosed diabetes refers to those with an HbA1c level of 48mmol/mol or above who did not report having doctor-diagnosed diabetes. Data in this table are age-standardised.

Citation: BHF (2024) Analysis of England health survey data

Source: NHS England (2023). Health Survey for England 2021 part 2, Adult Health Tables [accessed July 2024] <https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england>

Table 5.18 Prevalence of diabetes (current and lifetime) from health survey by deprivation quintile, Scotland 2022

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

Type	Estimated prevalence					
	Scotland 2022					
	Most deprived	2nd most	3rd most	4th most	Least deprived	All
Doctor-diagnosed diabetes	10	8	7	5	6	7
Ever had diabetes	11	9	7	6	6	8

Notes:

Citation:

Source:

Doctor-diagnosed includes pregnant

BHF (2024) Analysis of Scottish health survey data

The Scottish Government (2023). The Scottish Health Survey 2022 [accessed July 2024]

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

Table 5.19 Percentage of adults with raised cholesterol by age and sex, England, 2019[Back to Table of Contents](#)for any content queries please email healthinsights@bhf.org.uk

Age in years	England 2019					
	Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s
16-24	18	540	17	500	17	1,040
25-34	34	1,300	26	1,000	29	2,300
35-44	53	1,900	37	1,400	45	3,300
45-54	55	2,000	59	2,200	57	4,200
55-64	52	1,800	66	2,400	59	4,200
65-74	37	970	62	1,800	50	2,800
75+	19	420	49	1,400	35	1,850
All Adults	40	8,900	45	10,800	43	19,700

Notes:

Includes those on lipid lowering drugs. Blood sample via nurse visit.

Raised total cholesterol: Total cholesterol greater than or equal to 5mmol/L.

All population figures are health survey results applied to latest official population estimates published by age and sex (ONS)

Scotland data not updated since 2010/11

Citation:

BHF (2024) Analysis of health survey data

Source:

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

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

NB the 2021 Health Survey for England part 2 (published 2023) did include an update, but trends have not been verified

Table 5.20 Prevalence of chronic kidney disease (CKD) by nation and region, latest[Back to Table of Contents](#)for any content queries please email healthinsights@bhf.org.uk

ONS Code	Nation/Region	CKD Register	
		Patients	Aged 18+ %
E12000004	East Midlands	206,524	4.9
E12000006	East of England	217,518	4.0
E12000007	Greater London	234,910	2.7
E12000001	North East England	109,584	4.7
E12000002	North West England	291,399	4.5
E12000008	South East England	325,429	4.1
E12000009	South West England	255,070	5.2
E12000005	West Midlands	251,242	4.9
E12000003	Yorkshire and The Humber	200,026	4.2
E92000001	England	2,091,702	4.2
S92000003	Scotland	n/a	n/a
W92000004	Wales	n/a	n/a
N92000002	Northern Ireland	79,536	5.0
K020000001	United Kingdom	n/a	n/a

Notes: These data show total numbers of people on GP patient registers in each area, and percentage of the patient list aged 18+ (not population)

CKD categories G3a to G5 - a significant additional cohort have some milder degree of renal failure

Wales - no comparable data since 2014 (118k) Scotland SPIRE data (2023) has 2.7% all-ages prevalence

Citation: BHF (2024) Analysis of UK GP patient register data

Source: England - NHS England - Quality & Outcomes Framework (QOF) prevalence data 2022/23 [accessed July 2024]
<https://digital.nhs.uk/data-and-information/publications/statistical/quality-and-outcomes-framework-achievement-prevalence-and-exceptions-data/>

Northern Ireland - Department of Health, Quality & Outcomes Framework (QOF) prevalence data 2023/24 [accessed July 2024]

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

Table 5.21 Prevalence of chronic kidney disease (CKD) from GP patient registers, diagnosed percentages by deprivation decile, England , 2022/23

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

	Year	IMD Geography	ALL	IMD Deciles									
				Most deprived	2nd	3rd	4th	5th	6th	7th	8th	9th	Least deprived
			%	%	%	%	%	%	%	%	%	%	%
Chronic kidney disease (CKD)	2022/23	2023 county/UA	4.19	3.86	4.11	3.76	3.49	4.44	4.15	4.85	4.68	4.28	3.69

Notes:

The percentage of patients aged 18 years and over with chronic kidney disease (CKD) with classification of categories G3a to G5, as recorded on practice disease registers.

NB diagnosis gaps for many condition are often thought to be highest in areas of greatest deprivation

IMD: index of multiple deprivation

Citation:

OHID (2024) Analysis of NHSE QOF data

Source:

OHID analysis of QOF prevalence data (NHS England 2023); deprivation deciles in England based on IMD 2019

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

<https://fingertips.phe.org.uk/> [accessed July 2024]

Table 5.22 Prevalence of chronic kidney disease (CKD) from CVDPREVENT, unadjusted percentages and age-standardised by deprivation quintile, England, Mar 2024

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

Condition	Code	All	IMD Quintiles					Age Standardised IMD Quintiles				
			Most deprived quintile	2nd	3rd	4th	Least deprived quintile	Most deprived quintile	2nd	3rd	4th	Least deprived quintile
		%	%	%	%	%	%	%	%	%	%	%
Chronic kidney disease (CKD)	CVDP001CKD	3.98	3.52	3.69	4.08	4.34	4.35	4.95	4.43	3.94	3.72	3.45

Notes: Prevalence of GP recorded CKD (G3a to G5) in patients aged 18 and over
CVDPREVENT = Cardiovascular Disease Prevention Audit. Produced by Office for Health Improvement and Disparities (OHID) and the NHS Benchmarking Network.
Data snapshot March 2024; published July 2024 - updates are usually issued quarterly

Citation: OHID/NHS (2024) Analysis of England GP prevalence data

Source: CVDPREVENT data (OHID & NHS England 2024)
<https://www.cvdprevent.nhs.uk/data-explorer>

Table 5.23 Prevalence of chronic kidney disease (CKD) from CVDPREVENT, unadjusted percentages by sex and age, plus age-standardised by gender, England, Mar 2024

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

Condition	Code	All Adults					Male					Female					Age Standardised		
		All 18+	18-39	40-59	60-79	80+	Male 18+	18-39	40-59	60-79	80+	Female 18+	18-39	40-59	60-79	80+	All	Male	Female
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Chronic kidney disease (CKD)	CVDP001CKD	3.98	0.08	0.89	7.84	30.42	3.48	0.08	0.83	7.45	29.34	4.48	0.07	0.96	8.21	31.20	4.22	4.11	4.33

Notes: Prevalence of GP recorded CKD (G3a to G5) in patients aged 18 and over
CVDPREVENT = Cardiovascular Disease Prevention Audit. Produced by Office for Health Improvement and Disparities (OHID) and the NHS Benchmarking Network.
Data snapshot March 2024; published July 2024 - updates are usually issued quarterly
OHID/NHS (2024) Analysis of England GP prevalence data

Citation:

Source: CVDPREVENT data (OHID & NHS England 2024)
<https://www.cvdprevent.nhs.uk/data-explorer>

Table 5.24 Prevalence of overweight (including obese) in adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

[Back to Table of Contents](#)

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Age (years)	England 2021						Scotland 2022						Wales 2022/23						Northern Ireland 2019/20						UK estimate					
	Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	32	990	24	720	28	1,700	41	120	37	110	39	230	43	73	51	80	46	150	36	37	39	37	37	74	33	1,200	27	950	30	2,200
25-34	61	2,300	56	2,200	59	4,500	62	210	55	200	59	410	58	110	57	110	58	220	66	78	59	72	63	150	61	2,700	56	2,600	59	5,300
35-44	70	2,600	62	2,400	66	5,000	73	240	59	210	66	450	72	130	60	120	66	250	76	93	56	73	66	170	71	3,100	62	2,800	66	5,900
45-54	82	3,000	65	2,400	73	5,400	78	270	71	260	75	530	74	140	62	120	68	260	82	100	70	90	76	190	82	3,500	65	2,900	74	6,400
55-64	79	2,800	64	2,400	72	5,200	76	290	73	290	75	580	77	160	61	130	69	300	82	100	62	78	72	180	77	3,400	65	2,900	71	6,300
65-74	76	2,000	71	2,000	73	4,000	82	240	72	220	77	460	70	120	58	110	64	230	84	74	72	66	78	140	81	2,400	70	2,400	76	4,800
75+	73	1,640	65	1,900	69	3,500	76	160	64	180	70	340	56	78	50	90	52	170	69	46	58	52	63	100	73	1,900	64	2,200	68	4,100
All Adults	69	15,000	59	14,000	64	29,000	70	1,530	63	1,470	67	3,000	65	820	57	760	61	1,600	71	530	60	470	65	1,000	69	18,000	59	17,000	64	35,000

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

All population figures are health survey results applied to latest official population estimates published by age, sex and nation by ONS/NRS/NISRA

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

Citation: BHF (2024) Analysis of UK health survey data

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

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

The Scottish Government (2023). The Scottish Health Survey 2022 [accessed Feb 2024]

<https://www.gov.scot/publications/scottish-health-survey-2022-volume-1-main-report/documents/>

Welsh Government (2023). National Survey for Wales - Population health: health-related lifestyle (adults), 2022/23 [accessed Feb 2024]

<https://www.gov.wales/adult-lifestyle-national-survey-wales-april-2022-march-2023>

Northern Ireland Statistics and Research Agency (2020). Health Survey Northern Ireland 2019/20 [BMI updates not available as of Feb 2024]

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

Table 5.25 Prevalence of obesity in adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

[Back to Table of Contents](#)

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Age (years)	England 2021						Scotland 2022						Wales 2022/23						Northern Ireland 2019/20						UK estimate					
	Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All	
	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
16-24	5	170	10	310	8	470	16	47	15	43	16	90	16	28	24	37	19	65	12	12	15	15	14	27	7	260	11	410	9	660
25-34	23	870	24	950	24	1,800	20	68	26	92	23	160	23	45	27	54	25	100	21	25	28	34	25	59	23	1,000	25	1,100	24	2,100
35-44	26	950	28	1,100	27	2,000	22	73	29	100	26	170	30	55	30	58	30	110	30	37	24	31	27	68	26	1,100	28	1,300	27	2,400
45-54	30	1,100	30	1,100	30	2,200	38	130	40	150	39	280	34	64	33	66	33	130	35	43	34	42	34	85	31	1,300	31	1,300	31	2,700
55-64	33	1,150	31	1,140	32	2,300	38	145	33	130	35	280	30	63	29	64	30	130	32	39	28	36	30	74	33	1,400	31	1,400	32	2,800
65-74	31	830	32	900	32	1,700	33	95	33	100	33	200	22	38	25	45	23	83	38	33	32	29	35	62	31	1,000	31	1,100	31	2,000
75+	24	550	27	800	26	1,350	23	49	29	83	27	130	14	20	20	36	17	56	27	18	27	24	27	42	24	640	27	940	26	1,580
All Adults	25	5,600	26	6,300	26	11,900	28	610	30	700	29	1,300	25	310	27	360	26	670	28	210	27	210	27	420	25	6,700	26	7,600	26	14,300

Notes:

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

All population figures are health survey results applied to latest official population estimates published by age, sex and nation by ONS/NRS/NISRA

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

Citation:

BHF (2024) Analysis of UK health survey data

Source:

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

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

The Scottish Government (2023). The Scottish Health Survey 2022 [accessed Feb 2024]

<https://www.gov.scot/publications/scottish-health-survey-2022-volume-1-main-report/documents/>

Welsh Government (2023). National Survey for Wales - Population health: health-related lifestyle (adults), 2022/23 [accessed Feb 2024]

<https://www.gov.wales/adult-lifestyle-national-survey-wales-april-2022-march-2023>

Northern Ireland Statistics and Research Agency (2020). Health Survey Northern Ireland 2019/20 [BMI updates not available as of Feb 2024]

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

Table 5.26 Prevalence of obesity in adults by deprivation quintile, England, Scotland, Wales, Northern Ireland, latest

[Back to Table of Contents](#) for any content queries please email healthinsights@bhf.org.uk

Type	Estimated prevalence					All
	Most deprived	2nd most	3rd most	4th most	Least deprived	
England 2021	34	28	27	23	20	26
Scotland 2022	36	32	30	28	19	29
Wales 2022/23	32	29	26	24	22	26
Northern Ireland 2019/20	32	28	26	27	25	27

Notes:

Citation:

Source:

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

BHF (2024) Analysis of UK health survey data

NHS England (2022). Health Survey for England 2021: data tables; corrected height and weight [accessed July 2024]

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

The Scottish Government (2023). The Scottish Health Survey 2022

<https://www.gov.scot/publications/scottish-health-survey-2022-volume-1-main-report/documents/>

Welsh Government (2023). National Survey for Wales - Population health: health-related lifestyle (adults), 2022/23

<https://www.gov.wales/adult-lifestyle-national-survey-wales-april-2022-march-2023>

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

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

Table 5.27 Prevalence of obesity and overweight in children by sex, England, Scotland, Northern Ireland and UK, latest

[Back to Table of Contents](#)

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Nation	OBESITY			OVERWEIGHT			OBESE or OVERWEIGHT		
	Boys %	Girls %	All %	Boys %	Girls %	All %	Boys %	Girls %	All %
England	20	13	16	12	15	14	32	28	30
Scotland	17	19	18	16	13	15	33	32	33
Northern Ireland	5	7	6	20	19	20	25	27	26
Wales #									
UK Children Aged 2-15	19	13	16	13	15	14	32	28	30

Notes:

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

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

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

Citation:

BHF (2024) Analysis of UK health survey data

Source:

NHS England (2020). Health Survey for England 2019 [no updates for children Feb 2024]

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

The Scottish Government (2023). The Scottish Health Survey 2022 [accessed Feb 2024]

<https://www.gov.scot/publications/scottish-health-survey-2022-volume-1-main-report/documents/>

Northern Ireland Statistics and Research Agency (2020). Health Survey Northern Ireland 2019/20 [no updates for children Feb 2024]

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

Table 5.28 Prevalence of obesity and overweight in children by sex, England, Scotland and Wales, child measurement programme, latest

[Back to Table of Contents](#)

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Nation	OBESITY			OVERWEIGHT			OBESE or OVERWEIGHT		
	Boys %	Girls %	All %	Boys %	Girls %	All %	Boys %	Girls %	All %
England - Reception (ages 4-5)	9.3	9.0	9.2	12.2	12.1	12.2	21.5	21.2	21.3
England - Year 6 (ages 10-11)	25.1	20.1	22.7	13.8	14.0	13.9	39.0	34.1	36.6
Scotland - Primary 1 (age c.5)	10.6	10.4	10.5	11.2	11.7	11.4	21.9	22.0	21.9
Wales - LA average # (ages 4-5)	13.0	12.8	12.9	14.4	13.7	14.0	27.4	26.5	26.9

Notes:

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

average of 19 of 22 local authorities (LAs) (the three excluded are from Cwm Taf Morgannwg health board area)

Programme results are not directly comparable.

Citation:

BHF (2024) Analysis of UK child measurement programme data

Source:

NHS England (2023). National Child Measurement Programme, England, 2022/23 school year [accessed Feb 2024]

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

Public Health Scotland (2023). Primary 1 Body Mass Index (BMI) statistics Scotland 2022/23 [accessed Feb 2024]

<https://www.publichealthscotland.scot/publications/primary-1-body-mass-index-bmi-statistics-scotland/>

Public Health Wales (2023) Child Measurement Programme Report 2021-2022 [accessed Feb 2024]

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

Table 5.29 Percentage of adults NOT meeting physical activity recommendations by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

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	England 2022/23						Scotland 2022						Wales 2022/23						Northern Ireland 2016/17						UK							
Age	Men	Women		All		Men	Women		All		Men	Women		All		Men	Women		All		Men	Women		All		Men	Women		All			
	(000)s	%	(000)s	(000)s	Age	%	(000)s	%	(000)s		%	(000)s	%	(000)s		%	(000)s	%	(000)s		%	(000)s	%	(000)s		%	(000)s	%	(000)s			
16-34				30 4,100	16-24	18	52	31	90	24	142	17	29	44	70	30	100	19-24	23	23	40	38	33	61								
					25-34	21	71	21	75	21	146	29	56	45	89	37	140	25-34	34	40	32	40	33	80								
					35-44	19	63	33	115	27	180	43	77	45	86	44	160	35-44	25	31	33	44	30	75								
					45-54	30	104	37	135	34	240	43	82	46	92	45	170	45-54	32	39	42	53	38	92								
					55-64	37	140	46	185	42	325	49	100	51	110	50	220	55-64	51	62	55	69	53	130								
55-74				38 4,800	65-74	38	110	51	160	45	270	44	75	51	94	48	170	65-74	51	44	65	60	59	104								
75+				57 3,000	75+	52	110	72	210	63	320	59	84	64	120	62	200	75+	86	58	92	82	90	140								
All Adults	34	7,800	39	9,400	37	17,000	All Adults	29	650	41	970	35	1,600	40	500	49	660	45	1,200	All Adults	39	300	49	380	45	680	34	9,200	39	11,400	37	20,500

Notes: Guidelines are for at least 150 minutes moderate or 75 minutes vigorous activity per week or an equivalent combination.
All population figures are health survey results applied to latest official population estimates published by age, sex and nation by ONS/NRS/NISRA
Totals may not add up due to rounding.

Citation: BHF (2024) Analysis of UK physical activity data

Source: Sport England (2024). Active Lives Survey Nov 22 - Nov 23 [accessed July 2024] <https://www.sportengland.org/know-your-audience/data/active-lives/active-lives-data-tables>
The Scottish Government (2023). The Scottish Health Survey 2022 <https://www.gov.scot/collections/scottish-health-survey/>
Welsh Government (2023). National Survey for Wales - Population health: health-related lifestyle (adults), 2022/23 <https://www.gov.wales/adult-lifestyle-national-survey-wales-april-2022-march-2023>
Northern Ireland Statistics and Research Agency (2017). Health Survey Northern Ireland 2016/17 [no updates] <https://www.health-ni.gov.uk/publications/health-survey-northern-ireland-first-results-201617>

Table 5.30 Prevalence of cigarette smoking among adults by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

[Back to Table of Contents](#)

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	England 2022							Scotland 2022						Wales 2022/23						Northern Ireland 2022/23						UK estimate					
	Men		Women		All			Men		Women		All		Men		Women		All		Men		Women		All		Men		Women		All	
Age (years)	%	(000)s	%	(000)s	%	(000)s	Age (years)	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s	%	(000)s
							16-24	22	64	11	32	17	96	16	27	14	23	15	50	23	23	10	10	17	33						
18-24	13	310	10	240	12	550	25-34	20	68	14	50	17	120	20	37	16	31	18	68	16	19	15	18	16	37						
25-34	19	720	13	530	16	1,250	35-44	19	63	11	39	15	102	14	25	16	30	15	55	18	22	12	16	15	38						
35-44	17	630	12	450	14	1,100	45-54	21	73	17	63	19	136	13	26	14	28	14	54	17	21	13	17	15	38						
45-54	16	580	12	440	14	1,020	55-64	16	61	14	56	15	120	13	27	12	26	12	53	13	16	16	20	14	36						
55-64	14	500	12	460	13	960	65-74	16	46	12	37	14	83	9	16	7	13	8	29	13	11	13	12	13	23						
65+	9	420	8	440	8	860	75+	7	15	6	17	6	32	4	6	5	9	5	15	5	3	4	4	4	7						
All Adults	15	3,160	11	2,560	13	5,720	All Adults	18	390	13	290	15	680	13	165	12	160	13	325	15	115	12	97	14	210	15	3800	11	3100	13	6,900

Notes: Aged 16+ years, Respondents were asked if they smoke cigarettes. Excludes those who reported smoking only cigars or pipes.
All estimates are rounded and as a result may not add up.
All population figures are health survey results applied to latest official population estimates published by age, sex and nation by ONS/NRS/NISRA

Citation: BHF (2024) Analysis of UK population health surveys

Source: Office for National Statistics (2023) Annual Population Survey (APS) England 2022 **
<https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthandlifeexpectancies/bulletins/adultsmokinghabitsingreatbritain/2022>
The Scottish Government (2023). The Scottish Health Survey 2022
<https://www.gov.scot/publications/scottish-health-survey-2022-volume-1-main-report/documents/>
Welsh Government (2023). National Survey for Wales - Population health: health-related lifestyle (adults), 2022/23
<https://www.gov.wales/adult-lifestyle-national-survey-wales-april-2022-march-2023>
Northern Ireland Statistics and Research Agency (2023). Health Survey Northern Ireland 2022/23
<https://www.health-ni.gov.uk/publications/tables-health-survey-northern-ireland>

OTHER SOURCES ** estimates for all four UK nations can be found in the ONS Annual Population Survey (APS 2022) - Scotland 13.9% - Wales 14.1% - Northern Ireland 14.0% - overall UK 12.9% (adults aged 18+)
<https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthandlifeexpectancies/bulletins/adultsmokinghabitsingreatbritain/2022>
Latest Health Survey for England (2022 fieldwork) = 12.7% - male 14.4%, female 11.0% <https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2022-part-1>
for England there is also the GP Patient Survey (GPPS) - latest prevalence (2022/23) is 13.6% - see OHID Fingertips website <https://fingertips.phe.org.uk/> [accessed July 2024]

Table 5.31 Prevalence of cigarette smoking among adults by deprivation quintile, England, Scotland, Wales, Northern Ireland, latest

[Back to Table of Contents](#)

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Type	Estimated prevalence					All
	Most deprived	2nd most	3rd most	4th most	Least deprived	
England 2022	21	17	9	10	9	13
Scotland 2022	25	20	14	11	7	15
Wales 2022/23	22	14	13	9	8	13
Northern Ireland 2022/23	24	16	12	11	7	14

Notes:

Aged 16+ years, Respondents were asked if they smoke cigarettes. Excludes those who reported smoking only cigars or pipes.

Citation:

BHF (2024) Analysis of UK health survey data

Source:

NHS England (2024). Health Survey for England 2022 Part 1

[accessed July 2024]

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

The Scottish Government (2023). The Scottish Health Survey 2022

<https://www.gov.scot/publications/scottish-health-survey-2022-volume-1-main-report/documents/>

Welsh Government (2023). National Survey for Wales - Population health: health-related lifestyle (adults), 2022/23

<https://www.gov.wales/adult-lifestyle-national-survey-wales-april-2022-march-2023>

Northern Ireland Statistics and Research Agency (2023). Health Survey Northern Ireland 2022/23

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

Table 5.32 Percentage of adults exceeding weekly alcohol consumption guidelines by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

[Back to Table of Contents](#)

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Age	England 2022			Scotland 2022			Wales 2022/23			Age	Northern Ireland 2022/23			Age	UK Total, latest		
	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %		Men %	Women %	All %		Men %	Women %	All %
16-24	24	14	19	37	16	26	13	11	12						24	14	19
25-34	29	9	19	28	11	20	15	5	10	18-34	28	7	18		28	9	19
35-44	32	13	22	27	17	22	28	7	17	35-44	20	9	14		32	13	22
45-54	30	18	24	31	18	24	28	14	21	45-54	30	14	22		30	18	24
55-64	38	23	30	37	20	28	35	14	24	55-64	25	11	18		38	23	30
65-74	40	19	29	30	12	20	31	12	21	65-74	24	6	15		39	19	29
75+	31	14	22	25	8	15	24	6	14	75+	13	3	7		31	14	22
All Adults	32	15	24	31	15	22	25	10	17	All Adults	25	9	16		32	15	23

Notes: Weekly recommended limit is 14 units for adults.

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

Citation: BHF (2024) Analysis of UK population health surveys

Source: NHS England (2024). Health Survey for England 2022 Part 1 [accessed July 2024]

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

The Scottish Government (2023). The Scottish Health Survey 2022

<https://www.gov.scot/publications/scottish-health-survey-2022-volume-1-main-report/>

Welsh Government (2023). National Survey for Wales - Population health: health-related lifestyle (adults), 2022-23

<https://www.gov.wales/adult-lifestyle-national-survey-wales-april-2022-march-2023>

Northern Ireland Statistics and Research Agency (2023). Health Survey Northern Ireland 2022/23

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

Table 5.33 Percentage of adults NOT meeting 5-a-day fruit and vegetable recommendations by age and sex, England, Scotland, Wales, Northern Ireland and UK, latest

[Back to Table of Contents](#)

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Age (years)	England 2022			Scotland 2021			Wales 2022/23			N Ireland 2022/23			UK Total, latest		
	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %	Men %	Women %	All %
16-24	74	75	75	91	83	87	67	76	71			43	74	75	75
25-34	76	72	74	82	79	81	71	78	75			55	76	73	74
35-44	70	66	68	73	80	77	70	71	71	61	50	56	70	66	68
45-54	70	71	71	82	79	80	69	75	72	66	47	56	70	71	71
55-64	71	72	71	75	74	75	72	71	72	58	53	55	71	72	71
65-74	69	63	66	72	71	71	68	67	68	53	49	51	69	63	66
75+	67	71	69	77	76	77	68	75	72	46	54	51	67	71	69
All Adults	72	70	71	78	77	78	70	73	71	57	50	53	72	70	71

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

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

Citation: BHF (2024) Analysis of UK population health surveys

Source: NHS England (2024). Health Survey for England 2022 Part 1 [accessed July 2024]

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

The Scottish Government (2022). The Scottish Health Survey 2021 [no 2022 survey update]

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

Welsh Government (2023). National Survey for Wales - Population health: health-related lifestyle (adults), 2022-23

<https://www.gov.wales/adult-lifestyle-national-survey-wales-april-2022-march-2023>

Northern Ireland Statistics and Research Agency (2023). Health Survey Northern Ireland 2022/23

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

Table 5.34 Levels of Air Pollution (fine particulate matter; PM_{2.5}) by nation and region, United Kingdom 2019 - 2022

[Back to Table of Contents](#)

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ONS Code	Nation/Region	PM _{2.5} (anthropogenic)				PM _{2.5} (total)			
		2019	2020	2021	2022	2019	2020	2021	2022
E12000004	East Midlands	9.4	6.5	7.0	7.8	9.9	7.0	7.4	8.2
E12000006	East of England	9.7	7.2	6.9	7.7	10.3	7.8	7.3	8.3
E12000007	London	11.4	8.9	8.3	9.0	11.9	9.6	8.7	9.6
E12000001	North East England	6.2	4.8	6.0	6.8	6.6	5.3	6.4	7.2
E12000002	North West England	7.9	6.1	6.6	7.1	8.3	6.7	7.1	7.5
E12000008	South East England	9.1	7.4	6.8	7.1	9.7	8.1	7.3	7.6
E12000009	South West England	7.3	6.2	6.2	5.6	7.9	7.0	6.8	6.1
E12000005	West Midlands	9.4	6.7	6.9	7.1	9.9	7.3	7.3	7.6
E12000003	Yorkshire and The Humber	8.4	6.1	6.3	6.5	8.9	6.6	6.7	6.8
E92000001	England	9.0	6.9	6.9	7.3	9.6	7.5	7.4	7.8
S92000003	Scotland	5.2	3.7	3.7	4.1	5.5	4.1	4.1	4.6
W92000004	Wales	6.9	5.4	6.0	6.1	7.5	6.1	6.6	6.7
N92000002	Northern Ireland	5.5	5.0	5.3	4.5	5.9	5.6	5.7	5.2
K02000001	UK	8.5	6.5	6.5	6.9	9.1	7.1	7.0	7.4

Notes: Population-weighted annual mean PM_{2.5} concentration for 2019, 2020 and 2021 (ugm-3)

The anthropogenic component is used for health burden calculations as burden estimates based on total PM_{2.5} might give a misleading impression of the scale of the potential influence of policy intervention.

Citation: BHF (2024) Analysis of Defra air pollution data

Source: Department for Environment Food & Rural Affairs (Defra) (2022). UK Air Information Resource
<https://uk-air.defra.gov.uk/data/pcm-data> [accessed Feb 2024]

Table 5.35 Heart and circulatory diseases (CVD), coronary heart disease (CHD), and stroke (CBVD) deaths and DALYs attributable to modifiable risk factors, global, 2021

[Back to Table of Contents](#)

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Reset to Published Order	RISK FACTOR (% attributable)	2021 estimated burden - GLOBAL DEATHS			attributable global deaths (annual m)			2021 estimated burden - GLOBAL DALYs		
		Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)	Heart and circulatory diseases (CVD)	Coronary heart disease (CHD)	Stroke (CBVD)
	All modifiable risk factors	82.6%	91.7%	84.5%				80.1%	92.3%	84.1%
	High systolic blood pressure (hypertension)	53.5%	52.2%	58.1%	10.4	4.7	4.2	50.1%	49.9%	57.3%
	Dietary risks (lack of wholegrains, nuts, seeds, fruit, veg, etc; excess salt, sugar)	30.0%	43.4%	14.9%	5.8	3.9	1.1	31.3%	47.7%	17.1%
	Air pollution (particulate matter)	23.1%	27.7%	27.4%	4.5	2.5	2.0	23.3%	29.0%	28.0%
	High LDL (bad) cholesterol	18.8%	30.1%	12.9%	3.6	2.7	0.9	20.5%	35.4%	13.1%
	Tobacco (cigarette smoking, second-hand smoke)	14.6%	18.8%	14.9%	2.8	1.7	1.1	17.2%	23.0%	17.8%
	High fasting plasma glucose (diabetes)	11.4%	15.0%	11.6%	2.2	1.3	0.8	10.0%	13.8%	10.3%
	Impaired kidney function (dysfunction; renal failure)	10.8%	15.6%	9.3%	2.1	1.4	0.7	9.7%	13.9%	9.4%
	High body-mass index (obesity and excess weight)	9.8%	11.0%	3.7%	1.9	1.0	0.3	10.6%	12.7%	4.8%
	Other environmental risks (e.g. lead exposure)	7.6%	6.6%	7.7%	1.5	0.6	0.6	7.0%	6.3%	7.5%
	Non-optimal (low/high) temperature	6.3%	6.8%	6.7%	1.2	0.6	0.5	5.6%	6.6%	5.8%
	High alcohol use (misuse; binge drinking)	2.0%	*	5.0%	0.4	*	0.4	2.2%	*	5.3%
	Low physical activity (inactivity, sedentary behaviour)	1.9%	2.6%	1.9%	0.4	0.2	0.1	1.7%	2.1%	2.1%
	<i>Other (non-modifiable) risk factors/unknown</i>	17.4%	8.3%	15.5%				19.9%	7.7%	15.9%

Notes

Annual attributable deaths rounded. All figures are modelled estimates, so are likely to differ from previous editions.

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

DALYs - disability-adjusted life years - sum of lost healthy years across the population * = does not show as a risk factor for this condition

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, I27.0, I27.2, I28-I28.9, I30-I31.1, I31.8-I37.8,

I38-I41.9, I42.1-I42.8, I43-I43.9, I47-I48.9, I51.0-I51.4, I60-I63.9, I65-I66.9, I67.0-I67.3, I67.5-I67.6, I68.0-I68.2, I69.0-I69.3, I70.2-I70.8, I71-I73.9, I77-I83.9, I86-I89.0, I89.9, I98, K75.1

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

Citation:

BHF (2024) Analysis of GBD data

Source:

Global Burden of Disease Collaborative Network.

Global Burden of Disease Study 2021 Results.

Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2024.

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

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