

Cardiovascular disease Local Authority health profile

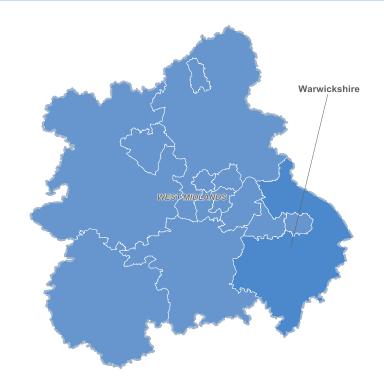
Warwickshire

Cardiovascular disease (CVD) is the second largest cause of death in England causing around 130,190 deaths in 2011 (29% of all deaths). Around 46% of all deaths from CVD are from coronary heart disease (CHD) and almost a fifth from stroke (18%). CHD is the most common single cause of death in England (13% of all deaths in 2011).

This Cardiovascular Disease (CVD) Health Profile brings together a wide range of data on cardiovascular disease in each upper tier local authority in England and in associated Strategic Clinical Networks. Its aim is to provide information to health care professionals, commissioners and other interested parties about CVD issues in their local community, as an aid to planning and development.

Warwickshire lies within the boundaries of the West Midlands Strategic Clinical Network (as of 1st April 2013, pictured right).

This information is also available for each stategic clinical network, and as an interactive atlas.



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LA boundaries

---- Network boundaries

Benchmarking

The area is benchmarked against the national value and the average value of the strategic clinical network in which it is either entirely or mostly located

Warwickshire is classified as a member of the West Midlands strategic clinical network.

Key messages

Early mortality (under 75 years) rates from cardiovascular disease are significantly lower than the national rate, and have decreased by 62.9% since 1995.

Emergency admission rates for both CHD and stroke are significantly lower than the national rate.

The rates of angiography procedures are significantly lower than the national rate.

For people having myocardial infarction reperfusion in 2011/12, the median time to primary angioplasty treatment from a call for help was 104 minutes in Warwickshire, this is lower than in West Midlands and England (113 and 111 respectively).

There is a slightly higher proportion of stroke patients under 75 years discharged back to their usual place of residence compared to the national picture.

Contact Details: This report, interactive atlases and the accompanying glossary and technical appendix are available to download on the SEPHO website. SEPHO will be part of Public Health England from April 2013 - http://www.sepho.nhs.uk



Summary Indicators

	Indicator	Local Value	Eng Avg	Eng Low	England Range	Eng High
1	Early cardiovascular mortality (<75 yrs)	52.4	58.8	34.3	\circ	107.0
2	Stroke mortality	32.7	34.5	23.0	$ \Diamond \Diamond $	50.8
3	Estimated % smokers (16+)	19.3	20.7	14.0	0	31.0
4	Estimated % obese (16+)	25.5	24.2	13.9		30.7
5	% of long term conditions who smoke	14.6	17.4	10.0		27.2
6	Obs/Exp CHD prevalence	0.6	0.6	0.3	♦ ०	0.8
7	Obs/Exp Hypertension prevalence	0.5	0.5	0.3	***	0.5
8	CHD emergency admissions	155.8	198.3	124.4	0	366.4
9	Stroke emergency admissions	69.2	89.5	48.7		160.2
10	30 day mortality in STEMI	9.7	8.7	0.0		20.6
11	% stroke discharged to usual residence	84.8	77.9	56.7	\Diamond	97.5
12	% HF who die at usual place residence	37.8	58.5	19.2	\Diamond	99.0
13	Angiography rates	229.2	278.2	122.3		676.0
14	Revascularisation rates	102.5	140.5	87.1		249.3

Significantly Higher than England average
 Significantly Lower than England average

Not significantly different from England average

O No significance available



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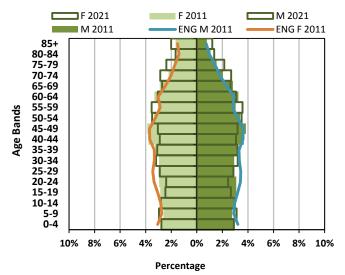
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^{1.} Directly standardised rate per 100,000, 2011 under 75. 2. Directly standardised rate per 100,000, 2011 3. Percentage estimate of smokers , 16+, 2006-08. 4. Percentage estimate of obese adults, 16+, 2006-08. 5. Percentage of those registered with long-term conditions who smoke, 2010/11. 6. Ratio of 2011/12 CHD QOF disease registers to estimated prevalence in 2011. 7. Ratio of 2011/12 hypertension QOF disease registers to estimated prevalence in 2011. 8. Directly standardised rate per 100,000, 2011/12. 9. Directly standardised rate per 100,000, 2011/12. 10. Percentage, 2011. 11. % of all patients diagnosed with stroke under 75, 2011/12. 12. Percentage of deaths due to heart failure at their usual place of residence 2007-2011 13. Directly standardised rate per 100,000, 2011/12. 14. Directly standardised rate per 100,000, 2011/12.



Demographic profile

Age profile and population projections in Warwickshire



Source: Office for National Statistics (ONS) 2011 MYE & 2011 interim subnational population projections

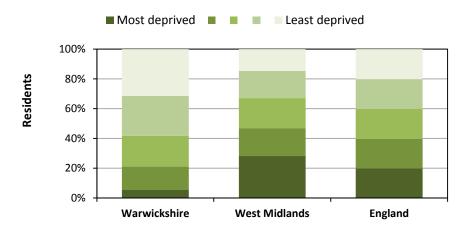
The population estimate of Warwickshire in 2011 was 546,600 and is projected to increase to 591,200 in 2021.

Age is a key factor in cardiovascular disease. The prevalence of cardiovascular disease increases significantly after the age of 40 years.

The percentage of the population aged 40 or over in Warwickshire is expected to increase from 25.5% to 26.4% for males and from 27.5% to 27.7% for females between 2011 and 2021

The population aged 40 or over in the West Midlands Network is expected to increase from 23.7% to 23.9% for males and remain unchanged at at 25.7% for females. In England it is expected to increase from 23.5% to 23.9% for males and from 25.7% to 25.8% for females.

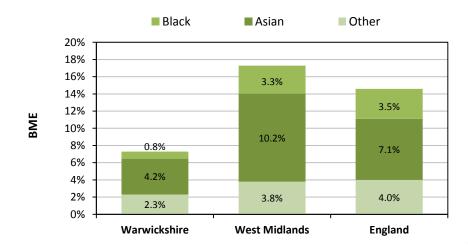
National deprivation structure (IMD 2010)



Warwickshire has 5.6% of its population in the most deprived national quintile and 31.3% of the population in the least deprived quintile.

Source: IMD 2010 Department of Communities and Local Government (DCLG)

Ethnicity recorded from the 2011 census



The proportion of the population in Warwickshire which is from black and minority ethnic groups is estimated to be 7.3%. South Asian men are more likely to develop CHD at younger age, and have higher rates of myocardial infarction. Black people have the highest stroke mortality rates.

The definition of BME used here excludes 'White Irish', 'White Gypsy or Irish traveller', ' and 'White other' ethnic groups.

Source: 2011 Census: Key Statistics for local authorities in England and Wales



Lifestyle behaviours

Lifestyle estimates for adults

	Smoking	Increasing and high risk drinking (combined)	Obesity
Warwickshire	19.3%	23.3%	25.5%
West Midlands	20.6%	21.4%	26.4%
England	20.7%	22.3%	24.2%

Sources: Smoking: Integrated Household Survey, 2010/11 High Risk drinking: Modelled estimates from the General Lifestyles Survey, 2008-09 Obesity: Modelled Estimates from Health Survey for England, 2006-08

Smoking

Using data from the Integrated Household Survey it is estimated that 19.3% of the population in Warwickshire smoke. This is lower than the estimated proportion in England (20.7%) and lower than West Midlands (20.6%).

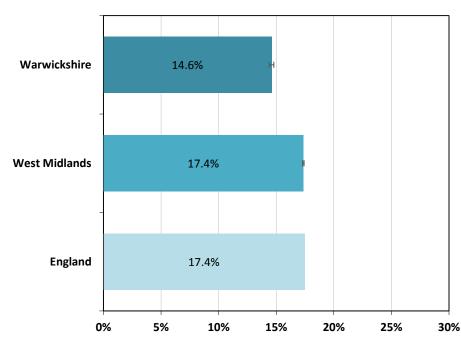
Increasing and high risk drinking (combined)

Using modelled estimates from the General Lifestyle Survey, it is estimated that 23.3% of the population in Warwickshire have increasing or high risk drinking behaviour. This is higher than England (22.3%) and higher than West Midlands (21.4%).

Adult obesity

Using modelled estimates from the Health Survey for England, it is estimated that 25.5% of the adult population in Warwickshire are classifed as obese. This is higher than England (24.2%) and lower than West Midlands (26.4%).

Percentage of patients registered with a GP with any combination of registered long-term conditions who smoke, QOF 2011/12



QOF data shows that the percentage of patients with long-term conditions who smoke in Warwickshire was 14.6% in 2011/12. This is significantly lower than the rate in England (17.4%) and significantly lower than the rate in West Midlands (17.4%).

Source: Quality and Outcomes Framework 2011/12



Quality and Outcomes Framework - exceptions

Effective exception rate (EER)

Area	2011/12 EER
Warwickshire	5.3%
West Midlands	5.3%
England	5.6%

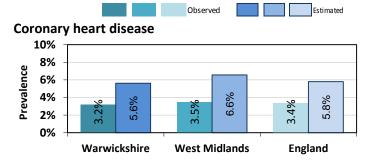
GPs can exclude patients from the calculation of measures in the Quality and Outcomes Framework, to allow practices to pursue the quality improvement agenda and not be penalised, where, for example, patients do not attend for review, or where a medication cannot be prescribed due to a contraindication or side-effect. However, the number of such exceptions varies substantially between practices. In 2011/12, the exception rate in Warwickshire was 5.3%. Within England, the exception rate varied between 3.9% to 8.6% for individual areas.

Number and percentage of practices with high exception reporting rates

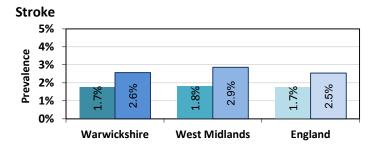
para para para para para para para para		0	•				Practices	Ī
							with any	
		Coronary				CVD	high	Total
	Atrial	heart	Heart	Hyper-	Stroke &	Primary	exception	number of
	fibrillation	disease	failure	tension	TIA	Prevention	rates	practices
Warwickshire	0	0	4	1	2	0	7	76
Warwickshire %	0.0%	0.0%	5.3%	1.3%	2.6%	0.0%	9.2%	76
West Midlands %	2.0%	6.8%	4.2%	1.5%	4.0%	1.3%	19.7%	956
England %	2.1%	7.5%	3.6%	2.0%	4.1%	2.1%	21.3%	8124

Quality and Outcomes Framework - prevalence

Observed (GP registered) prevalence in 2011/12 versus estimated prevalence in 2011

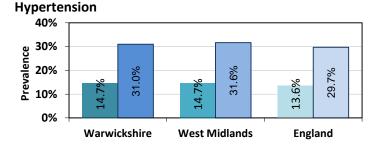


GPs record information on whether their patients have CHD or have a stroke. This information is crude and does not consider population structure. The estimated prevalence is population structure adjusted, but is for the 16+ population, so does not match the all age population of GP registers.



The observed prevalence for CHD in Warwickshire is 56.8% of the estimated prevalence. This compares to 58.2% for England and 52.8% for West Midlands.

The observed prevalence for stroke in Warwickshire is 67.5% of the estimated prevalence. This compares to 68.4% for England and 63.5% for West Midlands.



The observed prevalence for hypertension in Warwickshire is 47.4% of the estimated prevalence. This compares to 46.0% for England and 46.4% for West Midlands. The gap between recognised and treated hypertension, and actual hypertension levels in the community have been long recognised.



Quality and Outcomes Framework - performance

2011/12

Significantly lower than England	The same as England	Significantly higher than England

	Warwickshire	West Midlands	England		Warwickshire	West Midlands	England	
Coronary heart disease				Stroke				
% newly diagnosed angina patients referred for exercise testing or assessment	99.3	97.9	98.2	% stroke patients whose blood pressure was 150/90 or less	89.0	88.0	88.6	
% CHD patients in whom last blood pressure reading was 150/90 or less	90.2	89.7	90.1	% stroke patients with record of cholesterol in last 15 months	92.2	91.9	91.4	
% CHD patients in whom last cholesterol measurement was 5mmol/l or less	79.7	80.2	80.4	% stroke patients whose cholesterol was 5mmol/l or less	77.0	77.4	77.2	
% CHD patients taking aspirin, an alternative anti-platelet therapy or an anti-coagulant in last 15 months	94.0	93.5	93.3	% stroke patients immunised preceding Sept-March		89.9	90.0	
% CHD patients currently treated with beta blocker		73.3	74.2	% non-haemorrhagic/with history of TIA stroke patients taking anti-platelet agent/anti coagulant	93.7	93.6	93.6	
% patients with history of myocardial infarction currently treated with ACE inhibitor or angiotensin II antagonist	93.8	91.4	91.1	% new patients with a stroke referred for further investigation		89.5	89.6	
% CHD patients immunised against influenza in Sept-March	93.1	92.5	92.5	Hypertension % hypertension patients with record of blood pressure in	92.1	91.2	91.0	
Atrial fibrillation			1	last 9 months				
% atrial fibrillation patients currently treated with anti- coagulation drug therapy or an anti-platelet therapy	93.6	93.6	93.7	% hypertension patients (with record in last 9 months) in whom last blood pressure was 150/90 or less	81.2	79.6	79.7	
Heart failure				Primary prevention				
% heart failure patients diagnosed after 1st April 2006 with diagnosis confirmed by an echocardiogram or specialist assessment	96.8	96.1	95.7	% hypertension patients aged 30 to 74 who have had a cardiovascular risk assessment at the outset of diagnosis	84.0	80.7	80.0	
% patients with a current diagnosis of heart failure due to LVD currently treated with an ACE inhibitor or angiotensin receptor blocker	89.2	89.5	89.3	% hypertension patients who are given lifestyle advice in the for physical activity, smoking cessation, alcohol consumption and diet	85.0	81.4	81.5	

Source: Quality and Outcomes Framework 2011/12



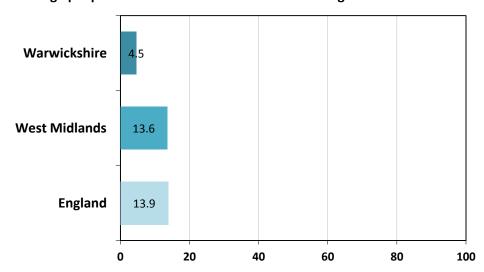
NHS Health Check Programme

The NHS Health Check programme was formally introduced in April 2009 as a key policy to reduce health inequalities and increase life expectancy from preventable CVD conditions.

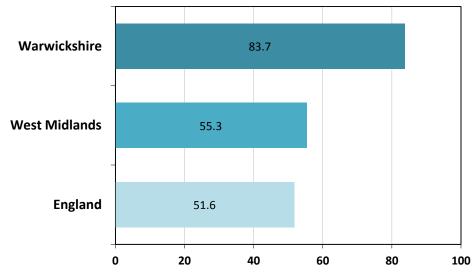
Based on PCT performance data submitted in 2011-2012, there were 165,000 local authority residents in Warwickshire who were eligible to be invited for an NHS Health Check. Local authorities are mandated to offer the programme to 100% of their eligible population over a five year period, from April 2013. During 2011-2012, 4.5% of eligible residents were invited to attend the programme with an uptake rate of 83.7%.

Local authorities can access a 'Ready Reckoner' that allows them to identify the potential service implications, benefits and cost savings resulting from implementing NHS Health Checks: http://www.healthcheck.nhs.uk/national_resources/ready_reckoner_tools

Percentage people offered a health check from those eligible to be invited for a health check during 2011/12



Percentage uptake of people offered a health check (within the eligible population) during 2011/12



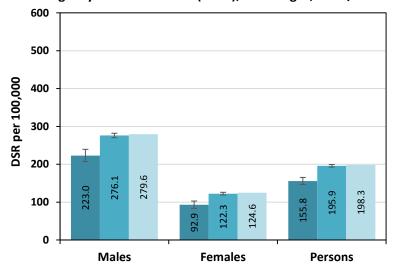
Source: Public Health Outcomes Framework and the Department of Health, 2012



Coronary heart disease emergency admission rates

■ Warwickshire ■ West Midlands ■ England → Warwickshire → West Midlands → England

CHD emergency admission rates (DSRs), for all ages, 2011/14

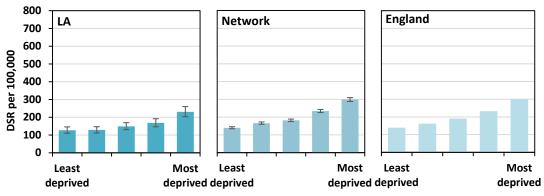


In 2011/12 the emergency admission rate for CHD, all persons, in Warwickshire was 155.8 per 100,000 (1219 admissions). This is significantly lower than England (198.3 per 100,000) and West Midlands (195.9 per 100,000).

Male CHD emergency admission rates are significantly higher than female CHD emergency admission rates.

Source: Hospital Episode Statistics (HES), Health and Social Care Information Centre ONS

CHD emergency admission rates (DSRs) for all ages, by quintile of relative deprivation, 2011/12

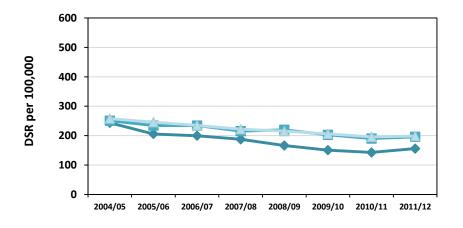


The emergency admission rate for CHD in 2011/12 for persons living in the most deprived areas of Warwickshire was 230.3. This is 1.8 times greater than emergency admission rates for persons living in the least deprived areas of Warwickshire (126.9).

Source: HES, Health and Social Care Information Centre, ONS, Department of Communities and Local Government (DCLG)

The emergency admission rates for persons who live in the most deprived areas of England are 2.2 times greater compared to persons who live in the least deprived areas and 2.1 times greater in West Midlands.

Trend in CHD rates (DSRs), 2004/05 to 2011/12



The emergency admission rate for CHD in Warwickshire has decreased by 36.0% between 2004/05 and 2011/12.

In England it has decreased by 23.1% and in West Midlands it has decreased by 21.8%.

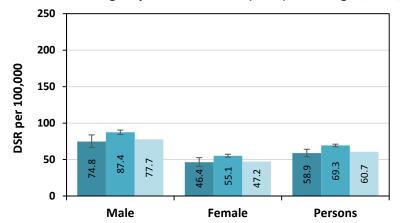
Source: HES, Health and Social Care Information Centre, ONS



Heart failure emergency admission rates

■ Warwickshire ■ West Midlands ■ England → Warwickshire → West Midlands → England

Heart failure emergency admission rates (DSRs), for all ages, 2011/12

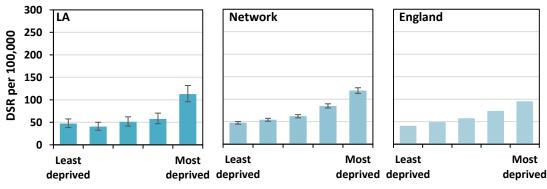


In 2011/12 the emergency admission rate for heart failure, all persons, in Warwickshire was 58.9 per 100,000 (586 admissions). This is lower than England (60.7 per 100,000) and significantly lower than West Midlands (69.3 per 100,000).

Male heart failure emergency admission rates are significantly higher than female heart failure emergency admission rates.

Source: HES, Health and Social Care Information Centre, ONS

Heart failure emergency admission rates (DSRs) for all ages, by quintile of relative deprivation, 2011/12

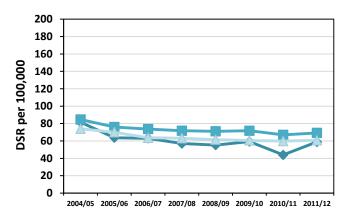


The emergency admission rate for heart failure in 2011/12 for persons who live in the most deprived areas of Warwickshire was 112.8. This was 2.4 times greater than the emergency admission rates for persons who live in the least deprived areas of Warwickshire (47.2).

Source: HES, Health and Social Care Information Centre, ONS, DCLG

In England, the emergency admission rates for persons who live in the most deprived areas are 2.3 times greater respectively compared to persons who live in the least deprived areas and 2.5 times greater in West Midlands.

Trend in heart failure rates (DSRs), 2004/05 to 2011/12

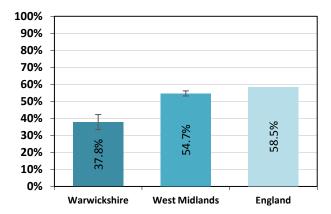


Source: HES, Health and Social Care Information Centre, ONS

The emergency admission rate for heart failure in Warwickshire has decreased by 27.8% between 2004/05 and 2011/12.

In England it has decreased by 18% and in West Midlands it has decreased by 18.2% .

Proportion of deaths from heart failure that occur at home or usual place of residence, 2007-2011



Source: PHO annual deaths extract, ONS

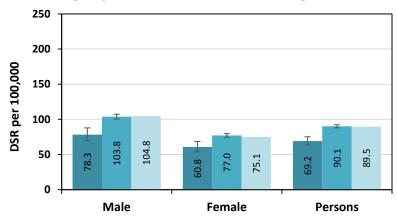
37.8% of deaths from heart failure occurred in the usual place of residence in Warwickshire which is a lower proportion than West Midlands (54.7%) and England (58.5%)



Stroke emergency admission rates

■ Warwickshire ■ West Midlands ■ England → Warwickshire → West Midlands → England

Stroke emergency admission rates (DSRs) for all ages, 2011/12

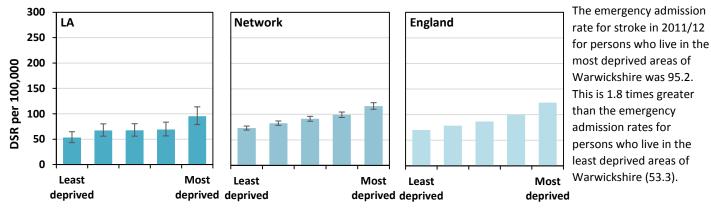


In 2011/12 the emergency admission rate for stroke, all persons, in Warwickshire was 69.2 per 100,000 (633 admissions). This is significantly lower than England (89.5 per 100,000) and West Midlands (90.1 per 100,000).

Male stroke emergency admission rates are significantly higher than female stroke emergency admission rates.

Source: HES, Health and Social Care Information Centre, ONS

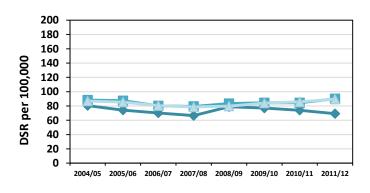
Stroke emergency admission rates (DSRs), by quintile of relative deprivation, 2011/12



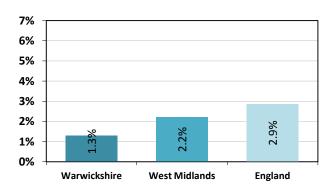
Source: HES, Health and Social Care Information Centre, ONS, DCLG

In England, the emergency admission rates for persons who live in the most deprived areas are 1.8 times greater respectively compared to persons who live in the least deprived areas and 1.6 times greater in West Midlands.

Trend in stroke rates (DSRs), 2004/05 to 2011/12



Emergency readmission rates for patients with stroke, 2011/12



Source: HES, Health and Social Care Information Centre, ONS

The emergency admission rate for stroke in Warwickshire has decreased by 14% between 2004/05 and 2011/12. In England it has increased by 3% and in West Midlands it has increased by 2.1%.

The rate of emergency readmissions within 30 days for Warwickshire is 1.3%, this is lower than England and West Midlands (2.9% and 2.2% respectively).



Myocardial Infarction management

Percentage Primary Angioplasty used in reperfusion treatment for patients with STEMI* diagnosis, 2011/12



Primary Angioplasty median time to treatment from calling for help, for STEMIs, 2011/12



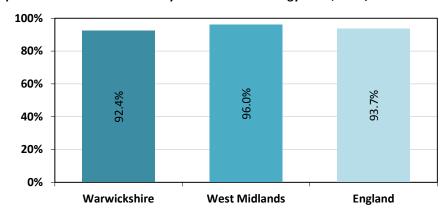
Source: Myocardial Ischaemia National Audit Project (MINAP)

Primary angioplasty for Warwickshire residents was 98.7% of all reperfusion for patients diagnosed as STEMI, compared to 95% in England.

The median time to primary angioplasty treatment from a call for help was 104 minutes for Warwickshire residents, this is lower than in West Midlands and England (113 and 111 respectively).

* STEMIs are ST elevated myocardial infarctions (as seen in an ECG) and best treated by thrombolysis or primary angioplasty

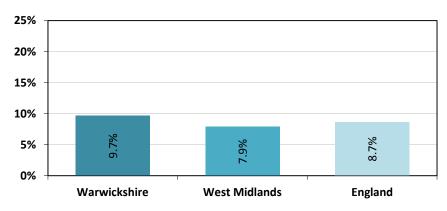
Proportion of non-STEMIs seen by member of cardiology team, 2011/12



Non-STEMI patients can be treated less invasively, but still need specialist management. The proportion of non-STEMIs seen by a member of the cardiology team for Warwickshire residents is 92.4%, this is lower than West Midlands and England (96% and 93.7% respectively).

Source: MINAP

Mortality within 30 days of admission to hospital for STEMI patients, 2011/12



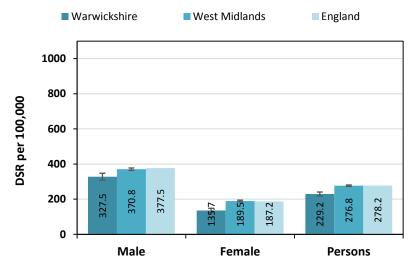
The 30 day mortality rate for STEMI patients admitted to hospital was recorded as 9.7% for Warwickshire residents during 2011/12, this is higher than West Midlands and England (7.9% and 8.7% respectively).

Source: MINAP



Angiography procedures

Angiography procedure rates (DSRs) for all ages, 2011/12

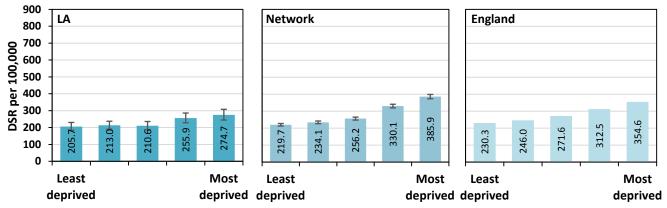


In 2011/12 the angiography procedure rate in Warwickshire was 229.2 per 100,000 (1651 procedures). This is significantly lower than England (278.2 per 100,000) and West Midlands (276.8 per 100,000).

Male angiography rates are 2.4 times greater than female angiography rates in Warwickshire.

Source: HES, Health and Social Care Information Centre, ONS

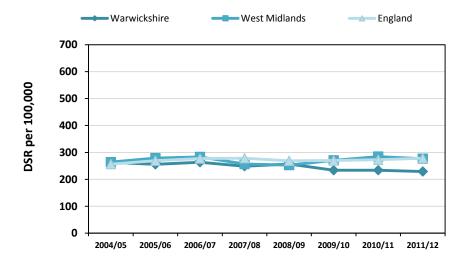
Angiography procedure rates (DSRs) for all ages, by quintile of relative deprivation, 2011/12



Source: HES, Health and Social Care Information Centre, ONS, DCLG

Angiography procedure rates for persons who live in the most deprived areas of Warwickshire are 1.3 times greater than those who live in the least deprived areas. In England and West Midlands they are 1.5 and 1.8 times greater respectively.

Trend in angiography rates (DSRs), 2004/05 to 2011/12



Angiography rates in Warwickshire have decreased by 12.8% between 2004/05 and 2011/12. In England and West Midlands they have increased by 8.4% and 4.9% respectively.

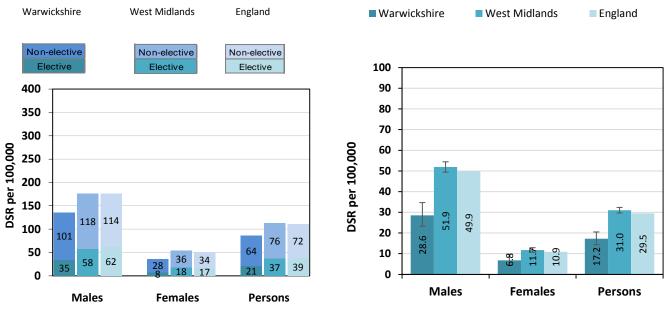
Source: HES, Health and Social Care Information Centre, ONS



Revascularisation

Elective & non-elective angioplasty procedure rates (DSRs) for all ages, 2011/12

CABG procedure rates (DSRs), for all ages, 2011/12



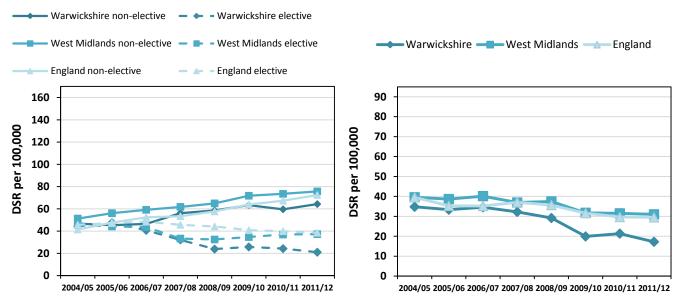
Source: HES, Health and Social Care Information Centre, ONS

In 2011/12 the all persons angioplasty procedure rate in Warwickshire was 85.3 per 100,000 (592 procedures), 21 per 100,000 elective and 64.3 per 100,000 non-elective. This is significantly lower than England (111 per 100,000) and West Midlands (112.9 per 100,000).

Male angioplasty procedure rates are 3.8 times greater than female angioplasty rates in Warwickshire.

In 2011/12 the CABG procedure rate, all persons, in Warwickshire was 17.2 per 100,000 (135 procedures). This is significantly lower than England (29.5 per 100,000) and West Midlands (31 per 100,000).

Trend in Angioplasty rates (DSRs), 2004/05 to 2011/12 Trend in CABG rates (DSRs), 2004/05 to 2011/12



Source: HES, Health and Social Care Information Centre, ONS

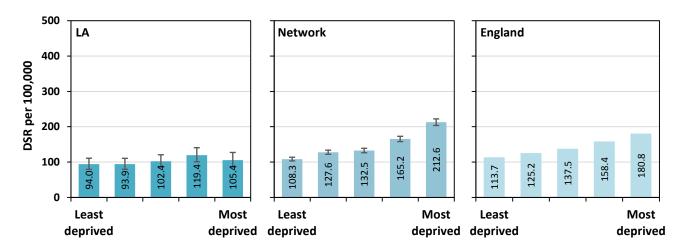
Non-elective angioplasty rates in Warwickshire have increased by 37.5% between 2004/05 and 2011/12. Elective procedure rates have decreased by 52.5%. In England and West Midlands non-elective procedure rates have increased by 74.8% and 47.5% respectively. Elective procedure rates have decreased by 15.7% and 18% respectively.

CABG procedure rates in Warwickshire have decreased by 50.5% between 2004/05 and 2011/12. In England and West Midlands CABG procedure rates have decreased by 25.4% and 21.6% respectively.



Revascularisation - deprivation

Revascularisation rates (DSRs) for all ages, by quintile of relative deprivation, 2011/12

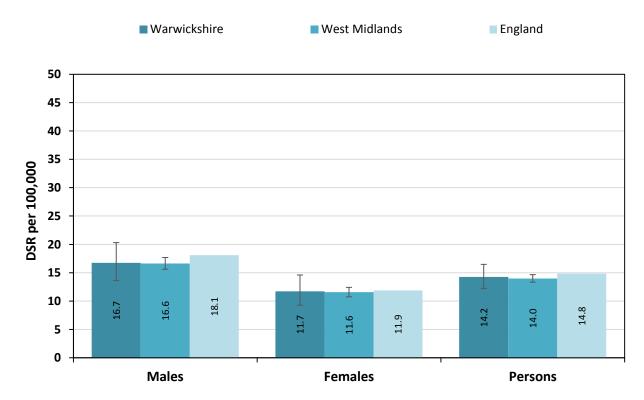


Source: HES, Health and Social Care Information Centre, ONS, DCLG

Revascularisation rates for persons who live in the most deprived areas of Warwickshire are 1.1 times greater than those who live in the least deprived areas. In England and West Midlands they are 1.6 and 2 times greater respectively.

Cardiac procedures

Valve procedure rates (DSRs), 2010/11-2011/12



Source: HES, Health and Social Care Information Centre, ONS

Valve procedure rates in Warwickshire were 14.2 per 100,000 in 2010/11-2011/12, higher than the network average (14) and lower than England (14.8).

Cardiac procedures

Heart Transplants by SHA, 2011/12

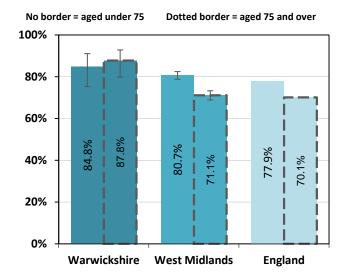
	Rate per million
Strategic Health Authority	population
West Midlands	3.8
North East	3.4
East Midlands	2.7
North West	2.7
East Of England	2.2
South West	1.9
South Central	1.7
South East Coast	1.6
Yorkshire and The Humber	1.1
London	1.1

The rate of heart transplantation varies from 1.1 per million in London to 3.8 per million in the West Midlands. This data is not available at a geography lower than strategic health authority.

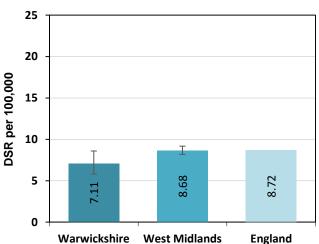
Source: UK Blood & Transplant

Stroke management

Percentage of hospital stroke patients discharged to home or usual place of residence, 2011/12



Rate of carotid endarterectomy procedures (DSR's), 2010/11-2011/12



Source: HES, Health and Social Care Information Centre, ONS

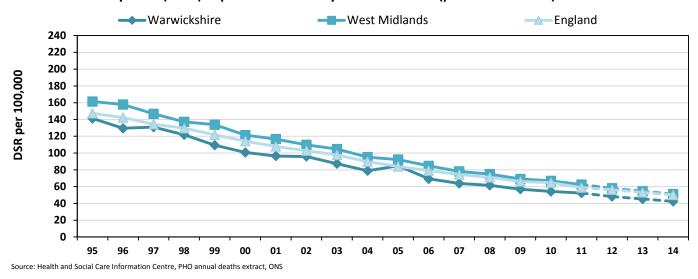
The proportion of patients under the age of 75 discharged to home or usual place of residence in Warwickshire is 84.8%, which is higher than West Midlands (80.7%) and England (77.9%). 87.8% of patients aged 75 or over are discharged to home, which is significantly higher than West Midlands (71.1%) and England (70.1%).

The rate of carotid endarterectomies performed per 100,000 for Warwickshire is 7.1, which is significantly lower than West Midlands (8.7) and England (8.7). West Midlands is significantly lower than England.



CVD early mortality trend

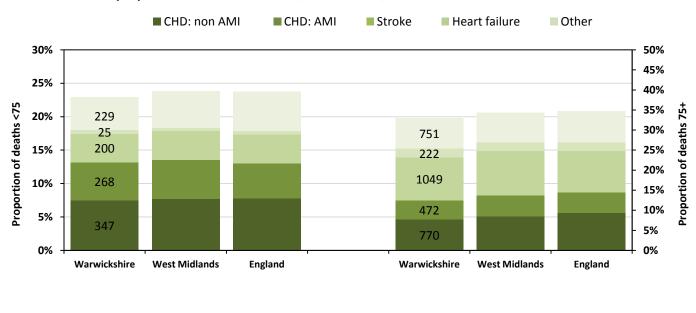
All CVD mortality rates (DSRs) in persons under 75 yrs: 1995 to 2011 (predicted to 2014)



The Public Health Outcomes Framework has an objective of reducing the numbers of people living with preventable ill health and people dying prematurely, while reducing the gap between communities. One of the key indicators for this objective is early mortality from CVD. In 2014 the early CVD mortality rate in Warwickshire for persons under 75 yrs is predicted to be 42.4, which would be a 10 year decrease of 46.2% (from 2004). The early CVD mortality rate for England is predicted to be 50.1, a 10 year decrease of 44.2% and the West Midlands rate is predicted to be 51.1, a 10 year decrease of 46.3%.

Contribution of CVD deaths to overall mortality

CVD deaths as a proportion of all deaths under, <75 and 75+, 2009-11



Source: Health and Social Care Information Centre, PHO annual deaths extract, ONS

<75

In Warwickshire the percentage of cardiovascular deaths as a proportion of all deaths was 22.9% for people aged under 75 years and 32.9% for people aged 75 and above. This is lower than England for under 75s (23.8%) and lower than England for those aged 75 and over (34.7%).

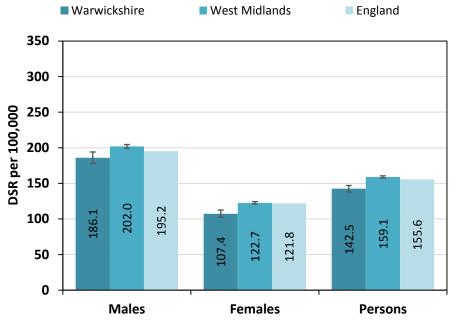
75+

CHD makes up the biggest proportion of total deaths (within CVD) for both males and females, 16.5% (6.8% AMI and 9.7% non AMI) and 9.2% (3.4% AMI and 5.8 % non AMI) respectively in Warwickshire. For males, 7% of deaths are due to stroke and 1.6% are due to heart failure. For females, 10.1% of deaths are due to stroke and 1.8% are due to heart failure.



CVD mortality rates

CVD mortality rates (DSR's) by gender for all ages, 2009-11



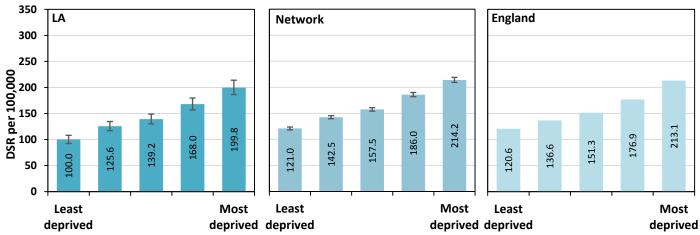
The 2009-11 CVD mortality rate in Warwickshire for all persons was 142.5 per 100,000. This is significantly lower than England (155.6) and West Midlands (159.1).

Male CVD mortality rates in Warwickshire are significantly higher than female CVD mortality rates (186.1 and 107.4 respectively).

Source: PHO annual deaths extract, ONS

CVD by deprivation

All CVD mortality rates (DSRs) for all persons, by quintile of relative deprivation, 2009-11



Source: PHO annual deaths extract, ONS, DCLG

The mortality rate in 2009-11 for persons who live in the most deprived areas of Warwickshire was 199.8 per 100,000. This is 1.4 times greater than the overall mortality rate for Warwickshire and 2.0 times greater than the mortality rate for persons who live in the least deprived areas of Warwickshire.

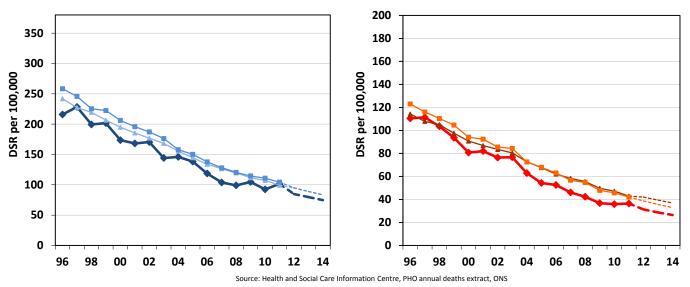
In England the mortality rate for persons who live in the most deprived areas was 213.1, 1.4 times greater than the overall mortality rate for England and 1.8 times greater than the mortality rate for persons who are in the least deprived areas. In West Midlands the mortality rate for persons who live in the most deprived areas was 214.2, 1.3 times greater than the overall mortality rate and 1.8 times greater than the mortality rate for persons who live in the least deprived areas.



Trends in mortality rates

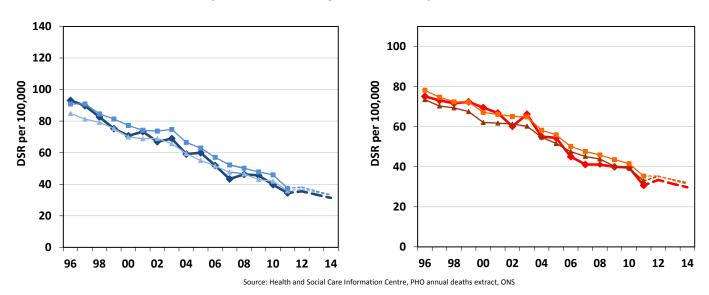


Trend in CHD mortality rates (DSRs), all ages, 1996-2011 (predicted to 2014)



In 2014, the mortality rate for CHD in Warwickshire is predicted to be 74.8 for males and 26.4 for females, this is a 10 year decrease of 48.8% for males and 58.0% for females. In England, the mortality rate is predicted to decrease by 46.1% to 83.8 for males over the same 10 years and by 49.2% to 36.9 for females. The rates in West Midlands are predicted to decrease by 47.3% for males to 83.2 and by 54.7% to 32.9. for females

Trend in cerebrovascular mortality rates (DSRs), all ages, 1996-2011 (predicted to 2014)



In 2014, the mortality rate for cerebrovascular disease in Warwickshire is predicted to be 31.4 for males and 29.7 for females, this is a 10 year decrease of 46.9% for males and 46.0% for females. In England, the mortality rate is predicted to decrease by 44.4% to 33.1 for males over the same 10 years and by 41.7% to 31.9 for females. The rates in West Midlands are predicted to decrease by 49.9% for males to 33.3 and by 46.2% to 31.3. for females.

Note that due to mortality recording changes introduced for 2011 data, there will be some decreases in CVD numbers, particularly cerebrovascular disease between 2011 and previous years that are not accounted for in population outcomes, but coding rules.

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This report has been compiled by

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With acknowledgements

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SEPHO will be part of Public Health England from April 2013

