

Arsyllfa lechyd Cyhoeddus Cymru Public Health Wales Observatory

Director of Public Health Annual Report: Chart Book

Cardiff and Vale University Health Board



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1 Introduction

This Cardiff and Vale University Health Board (UHB) chart book has been produced by the Public Health Wales Observatory as an appendix to the Director of Public Health Annual Report.

It updates and adds to the chart book produced by the Director of Public Health for Abertawe Bro Morgannwg University Health Board (UHB) for his Interim Annual Report. A decision was made by the Wales Directors of Public Health to use these indicators to inform their annual reports.

The Abertawe Bro Morgannwg UHB chart book indicators originated from a number of sources:

- Public Health Wales Observatory
- Vaccine Preventable Disease Programme (Public Health Wales)
- Public Health Wales Screening Services
- Welsh Cancer Intelligence and Surveillance Unit (Public Health Wales)

This updated chart book draws together information from the above resources and adds new information sourced from:

The Public Health Wales Observatory:

- Director of Public Health Annual Report: supporting indicators, 2011
- <u>Demography Profile, 2009</u>
- Lifestyle Profile, 2010
- Inequalities in mortality in Cardiff and Vale University Health Board: interim release to support Directors of Public Health annual reports

From other sources:

- Welsh Health Survey, Welsh Assembly Government (repackaged by the Public Health Wales Observatory)
- Public Health Wales, Vaccine Preventable Disease Programme
- Screening Division (Public Health Wales)
- Welsh Cancer Surveillance and Intelligence Unit (Public Health Wales)

The indicators have been presented under the following chapter headings: demography; determinants of health; use of services and health status. A summary of key points is included at the beginning of each chapter.

Maps included in this document show data by fifths of equal range within the health board area.

Included in Appendix A are web links for the original source reports and further information to support the used in this chart book.

A glossary of some of the terms used in this chart book is included in Appendix B.

Appendix C comprises of a series of local authority area maps showing the MSOA boundaries for the health board area.

2 Demography

2.1 Demography: key points

Population structure

The population of Cardiff and Vale University Health Board (UHB) is estimated to have been 461 thousand in 2009. More than 70 per cent of the Cardiff and Vale UHB population live in the Cardiff local authority area.

The age structure of the population is different to Wales with higher proportions of young children aged under 5 and adults aged 20-34, but lower proportions of persons aged 40 and over. The large student population in Cardiff contributes to a higher proportion aged 20 to 24 years than the Wales average.

At the health board level the proportion of the population aged 18 and over is comparable to that for Wales. At middle super output area level (MSOA), higher proportions of persons aged under 18 are found in the Ely; Trowbridge and St Melons areas of Cardiff. The areas with the lowest proportions are Cathays; Maindy and Blackweir in Cardiff where there is a large student population.

Among the older age groups the proportion aged 75 and over in Cardiff and Vale UHB area is below that for Wales. However at the local authority area level, Cardiff has a much lower proportion whereas the proportion for the Vale of Glamorgan is comparable to that for Wales as a whole. At the MSOA level, the highest proportions are found in the Rhiwbina; Garthmor and Pantmawr areas of Cardiff. For those aged 85 and over, the highest proportions are again found in the Rhiwbina; Garthmor and Pantmawr areas of Cardiff, and also in the Dyfan; Baruc, Illtyd; Penarth; St. Augustine's; Stanwell and Plymouth areas in the Vale of Glamorgan.

Population projections

The latest projections indicate that if current trends continue, the number of persons aged 65 and over resident in Cardiff and Vale UHB will increase by 60 per cent between 2008 and 2033. For Wales and the Vale of Glamorgan the proportion aged 75 and over is projected to increase from around eight or nine per cent to around 14 per cent over this period. However, the picture for Cardiff is very different with the proportion changing from just below 7 percent to around 7.5 per cent over the same period. In the Vale of Glamorgan, the percentage aged 85 and over is projected to double from around 2.5 per cent to around 5.5 per cent by 2033 which is comparable to Wales. Again the picture in Cardiff is quite different with the proportion aged 85 and over projected to increase much more slowly from 2 to 2.7 per cent by 2033.

The increase in the number of older people is likely to be associated with a rise in chronic conditions whose prevalence is strongly age-related such as circulatory and respiratory diseases and cancers. Meeting the needs of these individuals will be a key challenge for the health board. In the current economic climate, the relative (and absolute) increase in economically dependent and, in some cases, care-dependent populations will pose particular challenges to communities.

Birth rate

The General Fertility Rate (GFR) for Cardiff and Vale UHB is similar to the rate for Wales and there is little variation across the local authorities within the health board. At the MSOA level, there is considerable variation. Rates are particularly low in areas of Cardiff where there are high numbers of students (Cathays and Blackweir). The area with the highest rates is Ely in Cardiff.

All-cause mortality

The European age-standardised all-cause mortality rate takes into account the age structure of the population, allowing valid comparisons to be made between areas. The rate for Cardiff and Vale UHB is similar to Wales although the rate for the Vale of Glamorgan local authority is lower. At the MSOA level, variation is considerable with rates ranging from 357 to 1,061 per 100,000 population. The lowest rates are found in the Llanishen and Thornhill areas of Cardiff; the highest rates are found in the Plasnewydd and Roath areas of Cardiff. Among persons aged under 75 years the pattern is similar. The health board exhibits a decreasing trend in mortality in persons under 75 years from 2000 to 2009 which is generally in line with the all Wales pattern.

2.2 Population

2.2.1 Population by age and sex

Wales and Cardiff and Vale University Health Board

Proportion of population by age and sex Cardiff and Vale University Health Board: 2009

Produced by the Public Health Wales Observatory using data from 2009 mid year population estimates, Office for National Statistics

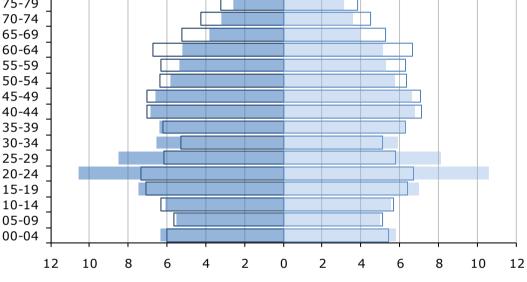
 85+

 80-84

 75-79

 70-74

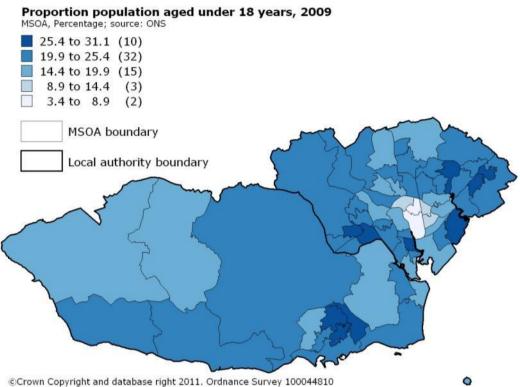
Cardiff and Vale females Cardiff and Vale males Ukales females Wales males



Proportion (%) of population

Population aged under 18 2.2.2

Middle super output areas



©Crown Copyright and database right 2011. Ordnance Survey 100044810 Produced by the Public Health Wales Observatory

Percentage of population aged under 18 in Cardiff and Vale University Health Board area,

Produced by Public Health Wales Observatory, using data from ONS (MYE)

¢ MSOA

Cardiff

012 010

—Health Board (20.8%)

———Wales (21.0%) - - - - Local Authority

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% under 18

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18.8

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17.1

16.8

16.4

15.5

13.1

9.9

9.7

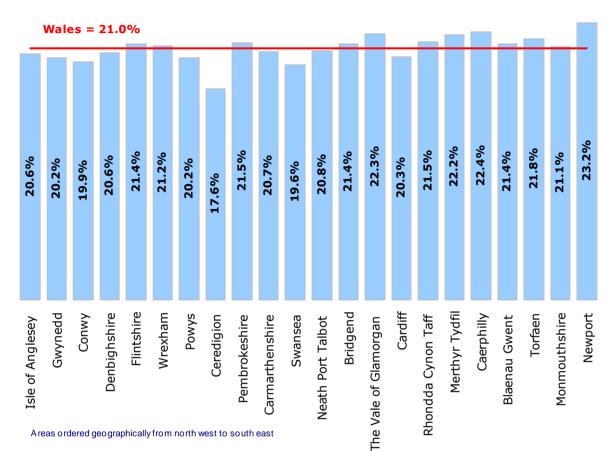
6.8

3.50

Cardiff

% = 20.3

Local authorities

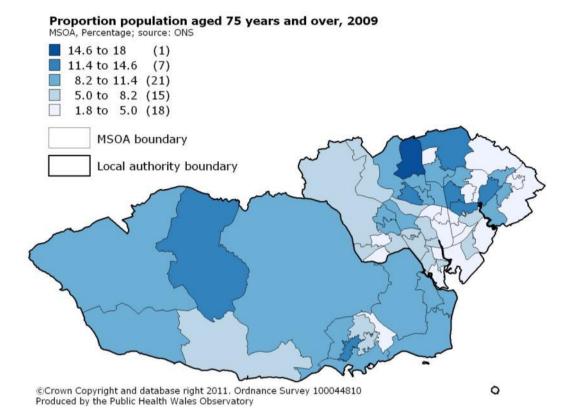


Percentage of population aged under 18 by local authority, 2009

Produced by Public Health Wales Observatory, using data from ONS (MYE)

2.2.3 Population aged 75 and over

Middle super output areas



Percentage of population aged 75 and over in Cardiff and Vale University Health Board area, 2009

Produced by Public Health Wales Observatory, using data from ONS (MYE)

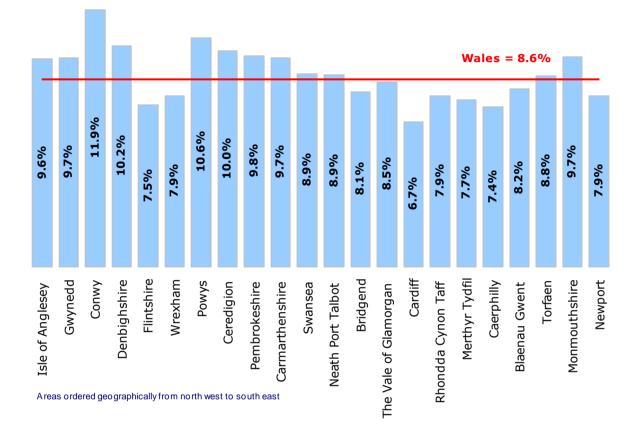
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The Vale of Glamorgan								
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Local authorities

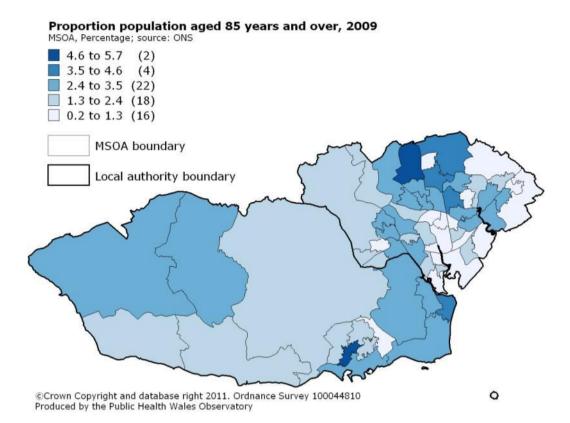
Percentage of population aged 75 and over by local authority, 2009

Produced by Public Health Wales Observatory, using data from ONS (MYE)



2.2.4 Population aged 85 and over

Middle super output areas



Percentage of population aged 85 and over in Cardiff and Vale University Health Board area, 2009

Produced by Public Health Wales Observatory, using data from ONS (MYE)

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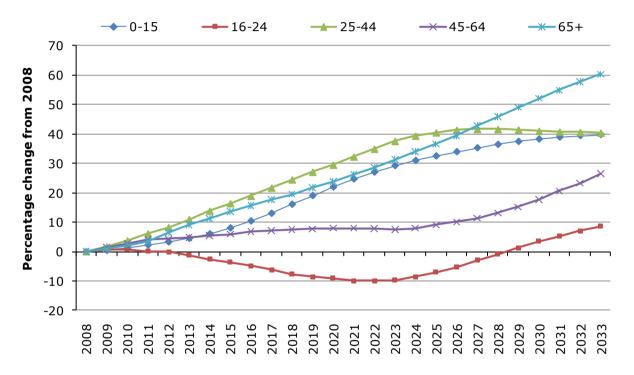
2.3 Population projections

2.3.1 Population projections by age group

Cardiff and Vale University Health Board

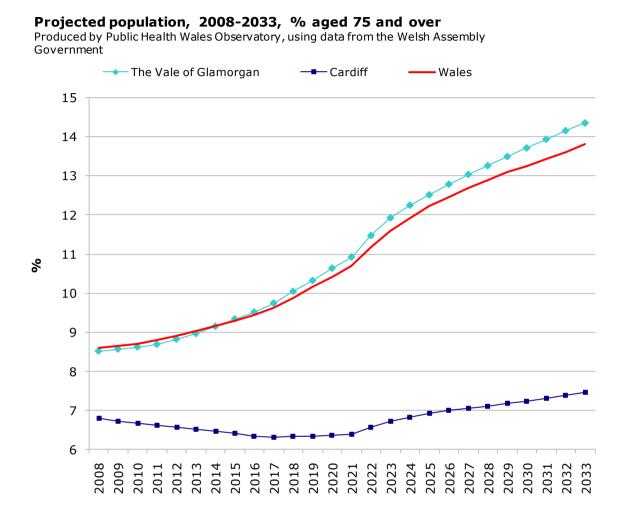
2008-based population projections for Cardiff and Vale University Health Board, persons: 2008 to 2033

Produced by the Public Health Wales Observatory, using data from the Welsh Assembly Government



2.3.2 Population projections, persons aged 75 and over

Local authorities within Cardiff and Vale University Health Board*



* Y-axis is truncated

2.3.3 Population projections, persons aged 85 and over

Local authorities within Cardiff and Vale University Health Board*

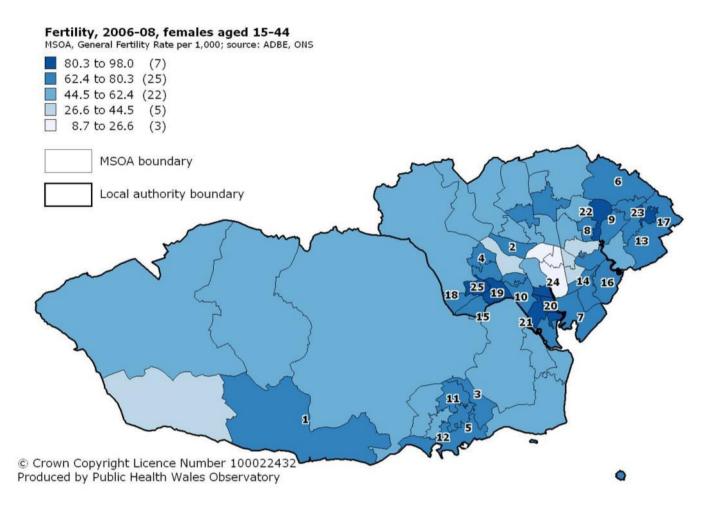
Projected population, 2008-2033, % aged 85 and over Produced by Public Health Wales Observatory, using data from the Welsh Assembly Government Wales ---- Cardiff 6.0 5.5 5.0 4.5 % 4.0 3.5 3.0 2.5 2.0 2008 2009 2010 2012 2013 2011

* Y-axis is truncated

2.4 Births

2.4.1 General fertility rate

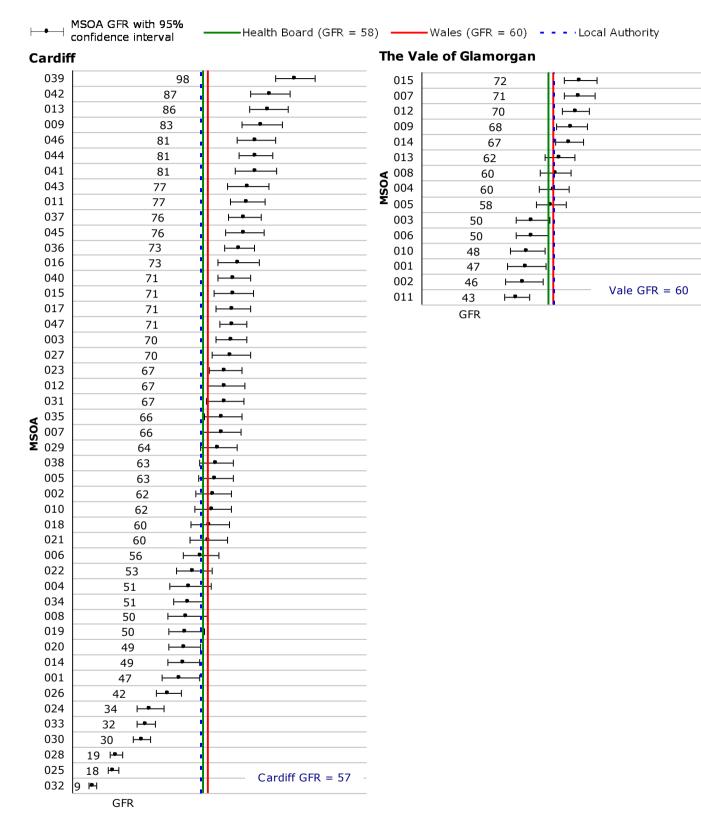
Middle super output areas



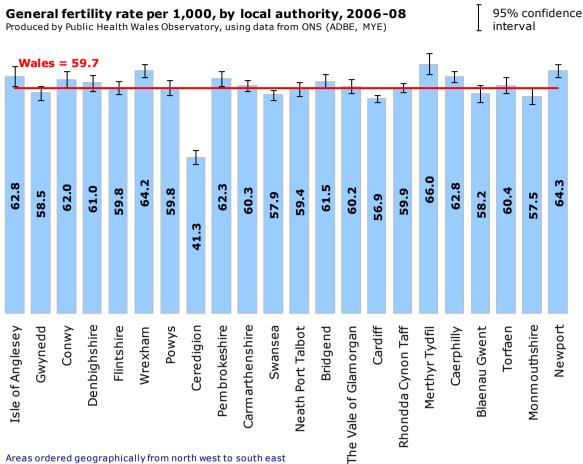
Numbers on map indicate MSOAs with a rate statistically significantly higher than the all Wales rate.

General fertility rate per 1,000 in Cardiff and Vale University Health Board area, females aged 15-44, 2006-08

Produced by Public Health Wales Observatory, using data from ONS (ADBE, MYE)



Local authorities

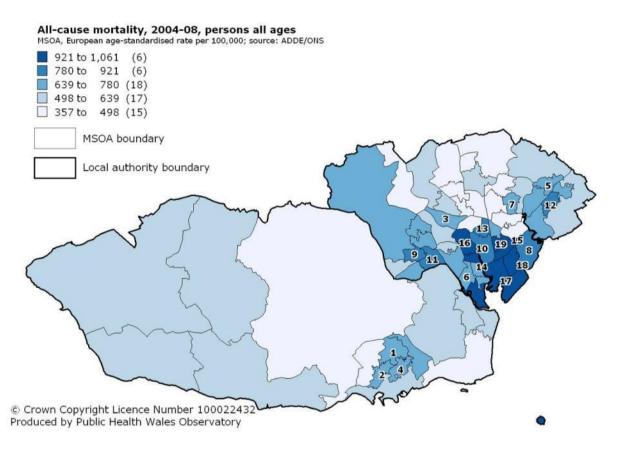


Areas ordered geographically from north west to south east

2.5 Deaths

2.5.1 All-cause mortality

Middle super output areas



Numbers on map indicate MSOAs with a rate statistically significantly higher than the all Wales rate.

All-cause mortality in Cardiff and Vale University Health Board area, all persons, 2004-08, European age-standardised rates per 100,000

Produced by Public Health Wales Observatory, using data from ONS (ADDE, MYE)

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MSOA EASR with 95% confidence interval
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Cardiff

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------ Health Board (EASR = 622) ------ Wales (EASR = 635) - - - · Local Authority
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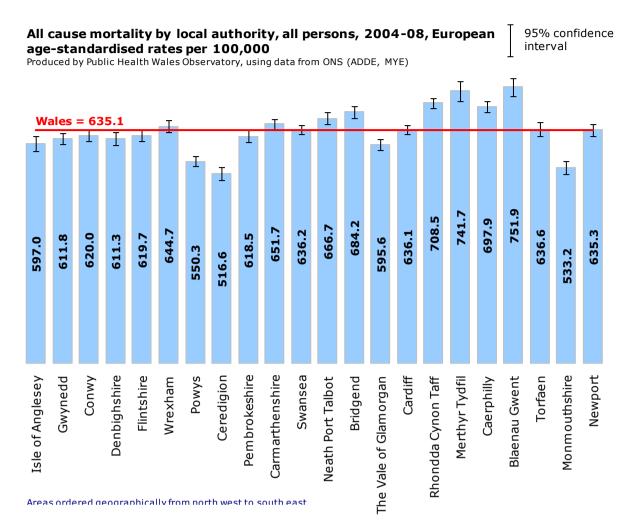
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The Vale of Glamorgan

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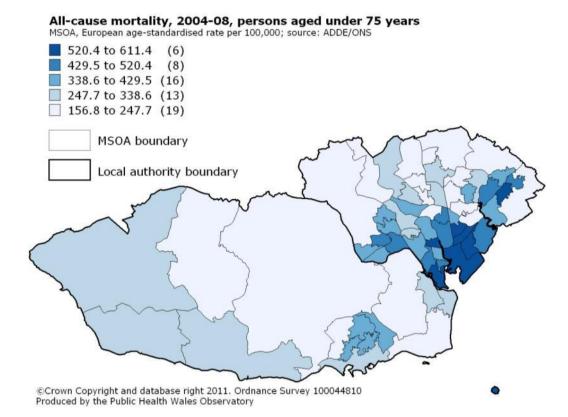
EASR per 100,000

Local authorities



2.5.2 All-cause mortality, aged under 75

Middle super output areas



All-cause mortality in Cardiff and Vale University Health Board area, persons aged under 75 years, 2004-08, European age-standardised rates per 100,000

Produced by Public Health Wales Observatory, using data from ONS (ADDE, MYE)

MSOA EASR with 95% confidence interval

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Health Board (EASR = 329) Wales (EASR = 331) ----- Local Authority
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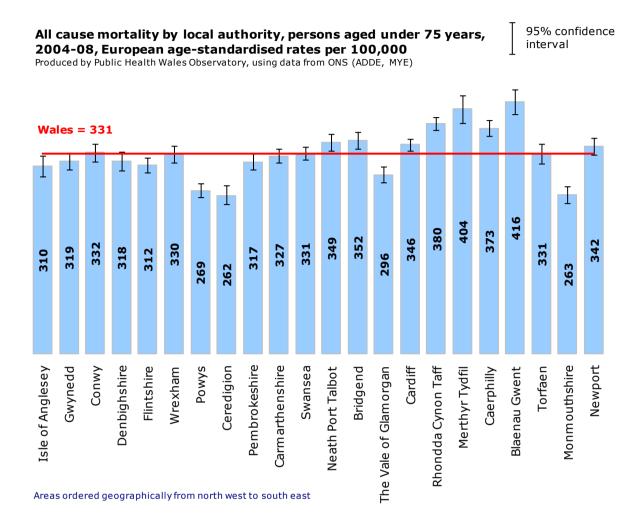
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014	237	
011	234	
024	222	
006	218	
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001	211	
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004	201 -	
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The Vale of Glamorgan

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001	259 ⊢∙	
002	239 🛏 🗕	
008	233 🛏 🕂	
010	232 🛏 🗕	
006	232 ⊢∙−-1	
003	231 ⊢•	Vale EASR = 296

EASR per 100,000

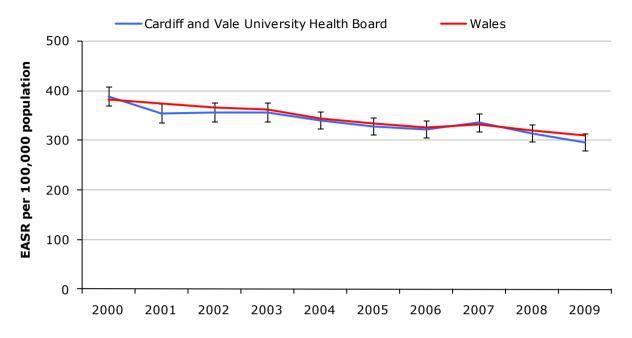
Local authorities



Wales and Cardiff and Vale University Health Board trend

All-cause mortality rate trend for Cardiff and Vale University Health Board, persons aged under 75: 2000 to 2009

Produced by the Public Health Wales Observatory, using data from ONS (ADDE, MYE)



3 Determinants of health

3.1 Determinants of health: key points

Pattern of deprivation

The pattern of deprivation as described by the Welsh Index of Multiple Deprivation shows that the most deprived areas are located in Barry in the Vale of Glamorgan and in Cardiff local authority, areas in places like Trowbridge; Llanrumney; Pentwyn; Splott,; Llandaff and Butetown. The least deprived areas are in the Vale of Glamorgan in places like Cowbridge and Llantwit Major.

Analysis of the association between deprivation and poor health

The association between socioeconomic deprivation and poor health outcomes is wellestablished. The Public Health Wales Observatory will be publishing a profile examining the relationship over time between deprivation and mortality later this year. This chart book contains some preliminary analysis released for inclusion in Director of Public Health Annual Reports. The analysis shows that the European age-standardised all-cause mortality rate in the most deprived fifth of areas within Cardiff and Vale UHB is almost three times that of the rate in the least deprived fifth. This gap is slightly higher in males than females. The charts also show the gap is not narrowing and that it may even be widening among females.

Lifestyle data

The Welsh Health Survey is a rich source of information on lifestyle. It is a self-reported survey randomly sampling around 15 thousand adults (aged 16+) per year in Wales. The sample is constructed to allow reporting at local authority level.

Lifestyle indicators in the Cardiff and Vale UHB area are generally similar to the Wales average with the exception of physical activity which is worse than the rate for Wales. Almost one in four people smoke, leading to around 680 deaths per year within the health board area.

Nearly half the population of the health board area drinks more alcohol than the recommended limits and nearly one third binge drink on at least one day a week. Hospital admissions due to alcohol and drugs are more common for Cardiff and Vale UHB residents than in Wales as a whole, with particularly high levels found in Cardiff. In total, over 7,500 hospital admissions and around 150 deaths are caused by alcohol each year.

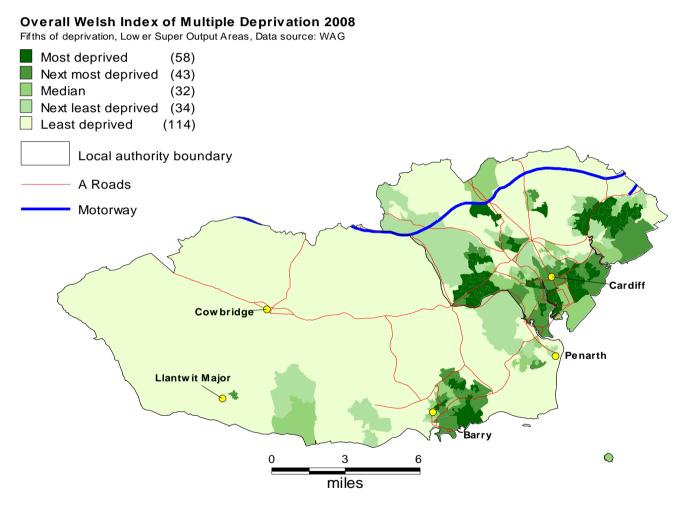
Overall, only around 40 per cent of people eat the recommended amount of fruit and vegetables, with even lower levels seen in the Vale of Glamorgan. The proportion of adults meeting recommended guidelines for physical activity are higher in the Vale or Glamorgan than in Cardiff. Improving diet and physical activity are essential to reducing the high proportions of people who are overweight or obese. Around 55 per cent of adults in the health board area are either overweight or obese.

3.2 Wider determinants of health

3.2.1 Deprivation in relation to Wales

The Welsh Index of Multiple Deprivation (2008) is produced at a small area level called lower super output area, and is derived from a broad range of factors including income, employment, health, education, skills and training, community safety, housing, physical environment and access to services. It is a geographically based deprivation measure which can be used to show inequalities in health and suggest areas likely to most need measures to improve health and manage ill-health.

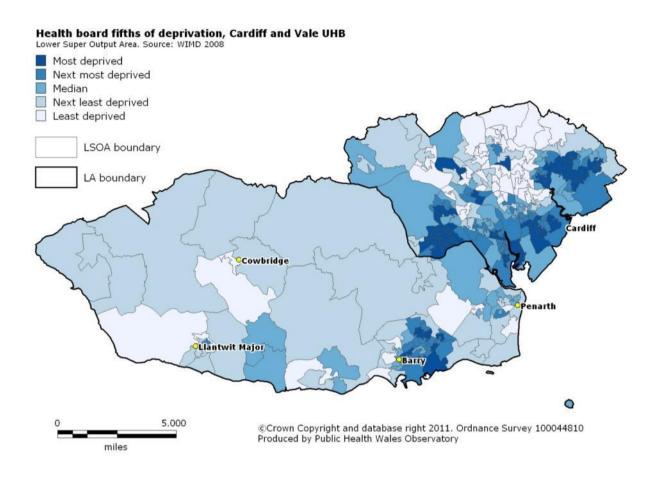
This map shows the level of deprivation in the health board in comparison to the rest of Wales.



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3.2.2 Deprivation within the health board

This map shows the most and least deprived fifths within the health board. It is this grouping that is used to demonstrate inequalities in mortality in the next section.



3.2.3 Inequality in all-cause mortality

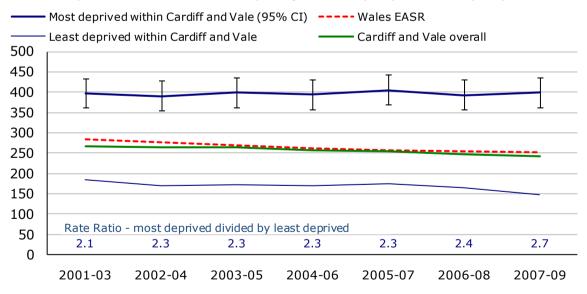
These graphs compare mortality in the most deprived fifth of the health board population with the least deprived fifth of health board population.

All-cause mortality, under 75, males, European age-standardised rate (EASR) per 100,000, Cardiff and Vale UHB and Wales, 2001-09

Produced by Public Health Wales Observatory, using ADDE/MYE (ONS), WIMD 2008 (WAG) Most deprived within Cardiff and Vale (95% CI) Least deprived within Cardiff and Vale Cardiff and Vale overall 900 800 700 600 500 400 300 200 Rate Ratio - most deprived divided by least deprived 100 2.6 2.5 2.4 2.5 2.8 2.9 2.8 0 2001-03 2002-04 2003-05 2004-06 2005-07 2006-08 2007-09

All-cause mortality, under 75, females, European age-standardised rate (EASR) per 100,000, Cardiff and Vale UHB and Wales, 2001-09

Produced by Public Health Wales Observatory, using ADDE/MYE (ONS), WIMD 2008 (WAG)

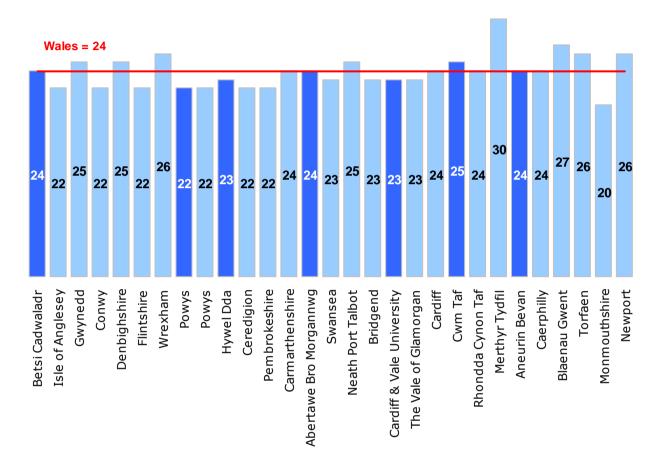


3.3 Lifestyle factors

3.3.1 Smoking as reported by adults

Adults who reported being a current smoker by local authority and health board, age standardised percentage, 2008-2009

Produced by Public Health Wales Observatory using data from the Welsh Health Survey, 2008 and 2009

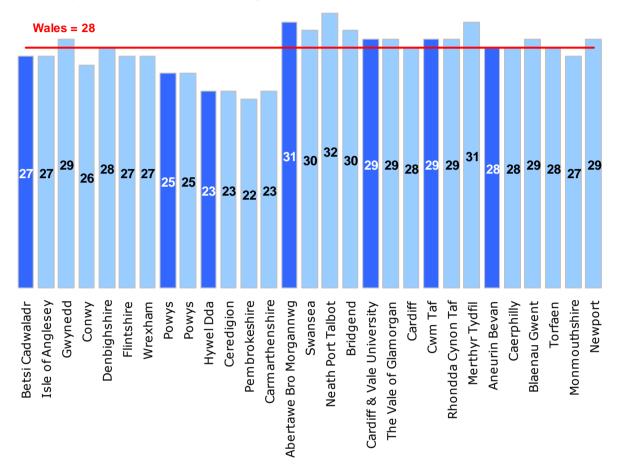


Areas ordered geographically from north west to south east

3.3.2 Binge drinking as reported by adults

Adults who reported binge drinking on at least one day in the past week by local authority and health board, age standardised percentage, 2008-2009

Produced by Public Health Wales Observatory using data from the Welsh Health Survey, 2008 and 2009



Areas ordered geographically from north west to south east

3.3.3 Five or more fruit or vegetables a day as reported by adults

Wales = 36 42 41 40 39 39 39 39 39 39 38 38 37 37 37 37 37 35 34 33 33 33 32 33 32 31 29 29 29 28 Powys Conwy Powys Pem brokeshire **Carm arthenshire** Swansea Monmouthshire Newport Betsi Cadwaladr Denbighshire Flintshire Ceredigion Abertawe Bro Morgannwg Cardiff Aneurin Bevan Torfaen Isle of Anglesey Gwynedd Hywel Dda Neath Port Talbot Bridgend Cwm Taf Rhondda Cynon Taf Cardiff & Vale University The Vale of Glamorgan **Merthyr Tydfil** Caerphilly Blaenau Gwent Wrexham

Areas ordered geographically from north west to south east

Adults who reported eating five/more portions fruit/veg the previous day by local authority/health board, age standardised percentage, 2008-2009 Produced by Public Health Wales Observatory using data from the Welsh Health Survey, 2008 and 2009

3.3.4 Physical activity as reported by adults

Wales = 29 39 39 36 34 34 33 33 33 31 31 30 30 30 30 30 29 27 28 28 28 28 28 28 27 26 27 26 26 25 Powys Monmouthshire Betsi Cadwaladr Isle of Anglesey Gwynedd Denbighshire Flintshire Powys Hywel Dda Ceredigion Pem brokeshire Carm arthenshire Abertawe Bro Morgannwg Swansea Neath Port Talbot Bridgend Cardiff Cwm Taf Blaenau Gwent Newport Cardiff & Vale University Rhondda Cynon Taf Aneurin Bevan Caerphilly Torfaen Conwy Wrexham The Vale of Glamorgan Merthyr Tydfil

Areas ordered geographically from north west to south east

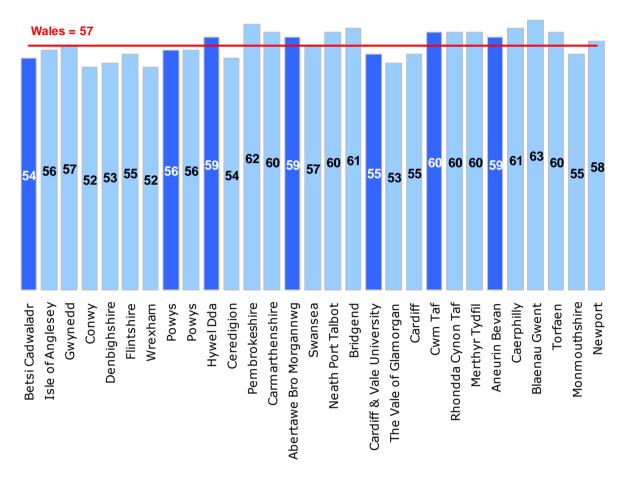
Adults who reported meeting physical activity guidelines in the past week by local authority/health board, age standardised percentage, 2008-2009 Produced by Public Health Wales Observatory using data from the Welsh Health Survey, 2008 and 2009

33

3.3.5 Overweight and obesity, adults based on self reported data

Adults who were overweight or obese by local authority and health board, age standardised percentage, 2008-2009

Produced by Public Health Wales Observatory using data from the Welsh Health Survey, 2008 and 2009



Areas ordered geographically from north west to south east

4 Use of services

4.1 Use of services: key points

Childhood immunisations

Childhood immunisation uptake rates show positive long term trends, although remain below target rates in a number of key areas. Immunisations in children under one year of age reach the 95% target. All immunisations scheduled for children in their second year of life do not reach the 95% target, and coverage of immunisations in five year olds and sixteen year olds are also below target. MMR vaccine uptake is a particular concern given a large outbreak of measles in Wales in 2009, and ongoing outbreaks in Europe in 2011. Uptakes of one dose of MMR in two year olds and two doses in five year olds have improved since 2005, but a 95% uptake of two doses is needed to eliminate measles in line with WHO goals. Improving uptake of pre-school and teenage immunisation will reduce risk of outbreaks of vaccine preventable diseases in future.

Seasonal influenza vaccination

In Wales, free seasonal influenza immunisation is offered to all people aged 65 years and over, and people between 6 months and 65 years in clinical risk groups (currently chronic respiratory disease, chronic heart disease, chronic renal disease, chronic liver disease, chronic neurological conditions, diabetes mellitus, and immunosuppression), residents of long-stay care homes and those who were the main carer for an elderly or disabled person whose welfare may be at risk if the carer fell ill. For 2009/10 WAG set a target immunisation uptake rate of 70% for people aged 65 years and over. For the 2010/11 seasonal influenza immunisation campaign the national uptake target was raised to the WHO target of 75% uptake in recommended groups. This target was also put in place for those younger than 65 years in `at-risk' groups. During the 2010/11 campaign influenza immunisation was also offered to pregnant women who were not an existing clinical risk group.

Uptake of seasonal influenza immunisation for Cardiff and Vale University Health Board in persons aged 65 years and over during 2010/11 was 9% under the target level. In persons aged under 65 years in the at risk groups, uptake during 2010/11 was 28% below the target level.

Population Based National Screening Programmes in Wales

Uptake/coverage rates in Cardiff and Vale UHB for the national screening programmes for bowel, breast and cervical cancer and newborn hearing screening are consistently lower than Wales overall. Only the rate for newborn hearing screening achieves the UK target rates, the other programmes all fall short of the targets. Rates in Cardiff for all screening programmes are noticeably lower than those for the Vale of Glamorgan.

Primary care services

The latest Welsh Health Survey data show that age-standardised percentages of primary care service use by adults in Cardiff and Vale UHB are on a par with or above those for Wales as a whole.

Use of secondary and tertiary care

Age-standardised overall hospital admission rates in persons aged under 75 years for 2009 in Cardiff and Vale UHB and its local authority areas show that overall rates are similar to Wales. Drilling down to the MSOA level there is considerable variation. Rates are lowest in the Gabalfa area of Cardiff and highest in the Ely and Riverside areas of Cardiff.

Looking at emergency admissions in this age group, the health board rate is below that of Wales and lower in Cardiff than the Vale of Glamorgan. At the MSOA level the rate varies greatly with the lowest rates found in the Heath area and highest in the Riverside area of Cardiff. High rates of emergency hospital admission may be indicative of inadequate self-care and primary care services.

The health board and Cardiff local authority area elective admission rates are very similar to that for Wales, whereas the rate for the Vale of Glamorgan is marginally higher. At the MSOA level rates are highest in the Rumney and Trowbridge areas of Cardiff. The lowest rates are found in the Gabalfa; Cathays; Blackweir; Lisvane and Llanishen areas of Cardiff.

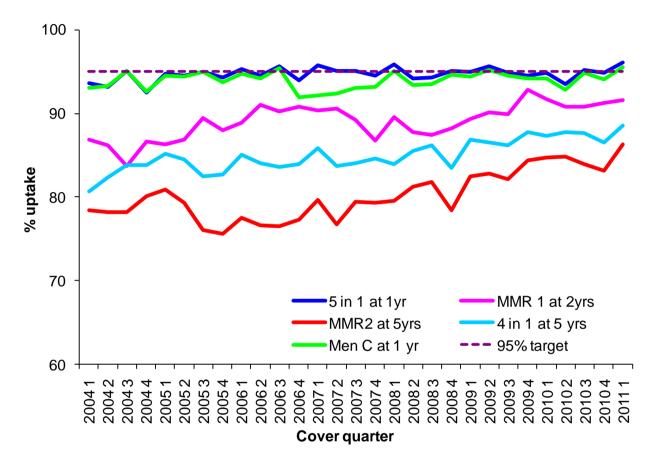
4.2 Prevention services: vaccination uptake

Note: Y-axes in the graphs of this section are truncated

4.2.1 Childhood immunisations

Routine childhood immunisation Cardiff and Vale University Health Board area, trends 2004-2011

Produced by Public Health Wales Vaccine Preventable Disease Programme, from the Public Health Wales COVER reports



Routine childhood immunisation Cardiff and Vale University Health Board area, 2011 quarter 1

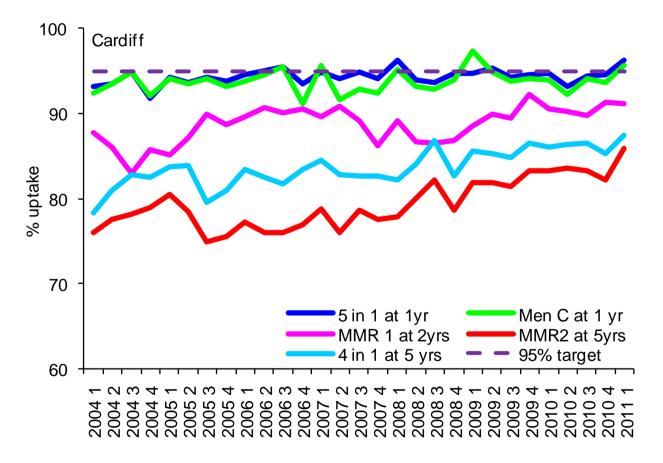
Produced by Public Health Wales Vaccine Preventable Disease Programme, from the Public Health Wales COVER reports



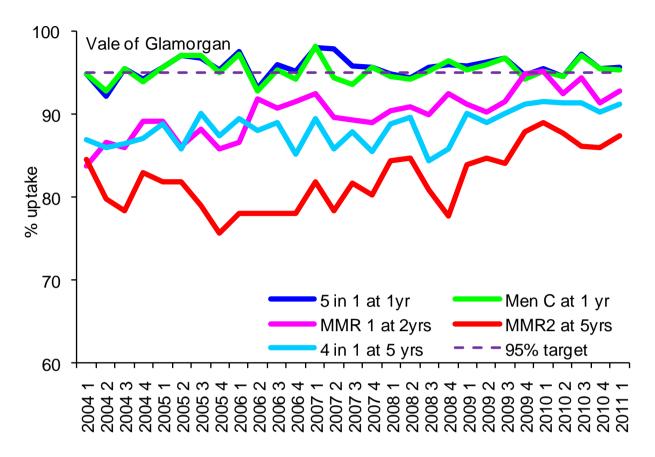
Cardiff and Vale UHB Summary - COVER98

Routine childhood immunisation Cardiff local authority area, trends 2004-2011

Produced by Public Health Wales Vaccine Preventable Disease Programme, from the Public Health Wales COVER reports



Routine childhood immunisation Vale of Glamorgan local authority area, trends 2004-2011 Produced by Public Health Wales Vaccine Preventable Disease Programme, from the Public Health Wales COVER reports



4.2.2 Seasonal influenza vaccination

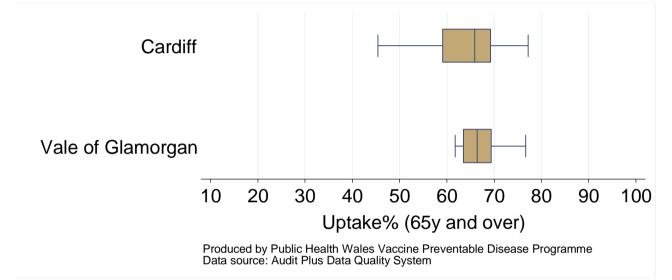
Uptake of seasonal influenza immunisation in Cardiff and Vale University Health Board area, 2010/2011

Produced by Public Health Wales Vaccine Preventable Disease Programme, data source: Audit +

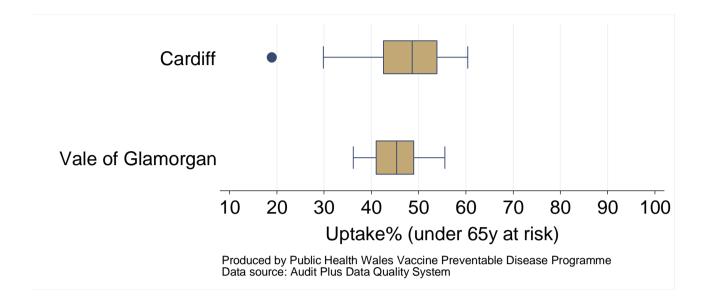
	-	•					
	Patients	s aged 65y a	and over	Patients aged under 65y at risk			
	Total patients	Patients immunised	Uptake (%)	Total patients	Patients immunised	Uptake (%)	
Cardiff	47,977	31,312	65.3	33,833	16,116	47.6	
Vale of Glamorgan	22,007	14,760	67.1	12,410	5,673	45.7	
Health Board total	69,984	46,072	65.8	46,243	21,789	47.1	

Distribution of practice level seasonal influenza immunisation uptake rates (patients aged 65 years and over), Cardiff and Vale University Health Board area, 2010/2011

Produced by Public Health Wales Vaccine Preventable Disease Programme, data source: Audit +



Distribution of practice level seasonal influenza immunisation uptake rates (patients aged under 65 years at risk), Cardiff and Vale University Health Board area, 2010/2011 Produced by Public Health Wales Vaccine Preventable Disease Programme, data source: Audit +



The line inside the shaded box represents the median practice uptake rate (half of the local authority practices have an uptake higher than the median value and half have an uptake lower than the median value). The shaded box represents the spread in uptake rates of the central 50% of practices, this is called the interquartile range. The whiskers extending above and below the shaded box represent the spread in practice uptake rates for the majority of practices within the local authority. Any practices with uptake rates that are very different from the majority of practices within the local authority are termed 'outliers' and appear as dots outside the whiskers.

4.3 **Population Based National Screening Programmes in Wales**

Screening is a process of identifying apparently healthy people who may be at increased risk of a disease or condition. They can then be offered information, further tests and appropriate treatment to reduce their risk and/or any complications arising from the disease or condition.

In the context of screening programmes:

Uptake is the proportion of people routinely invited for screening for who a screening test result is recorded within the same invitation episode. Uptake is an important measure of the acceptability of a screening programme. There are minimum uptake standards and targets set for each of the programmes.

Coverage is the proportion of people resident and eligible at a particular point in time who have been screened at least once in a defined time period (dependent on the screening interval of the different programmes).

4.3.1 Uptake of national screening programmes in Wales

Uptake of breast, bowel, cervical and newborn screening programme statistics for Cardiff and Vale University Health Board area, period 1 April 2009-31 March 2010 compared to all Wales

Screening programme	Age range / Test frequency in Wales	UK target rate	Wales rate	Cardiff & Vale	Cardiff	Vale of Glamorgan
Bowel Screening ¹	Currently 60-69 years / every 2 years	Uptake: 60%	55.3%	51.1%	48.8%	55.6%
Breast Screening ²	50-70 years / every 3 years	Uptake: Minimum 70%, Target 80%	76.2%	70.7%	66.4%	78.8%
Cervical Screening ³ (aged 20-64)		Coverage: 80% at 5 years (aged 25-64)	76.2%	73.2%	71.0%	79.9%
Cervical Screening ⁴ (aged 25-64)		Coverage: 80% at 5 years (aged 25-64)	79.5%	77.8%	76.2%	82.1%
Newborn Hearing Screening⁵	Newborn babies / within first month of birth	Uptake: 95%	99.7%	99.6%	99.4%	99.9%

Produced by Screening Division, Public Health Wales

<u>Notes</u>

1 Bowel: Uptake of people invited April 2009 to end of March 2010

2 Breast: uptake stated (of those routinely invited, number screened)

3 Cervical (aged 20-64): coverage stated, tested within 5 years

4 Cervical (aged 25-64): coverage stated, tested within 5 years - the 25-64 age range allows direct comparison with England

5 Newborn: uptake stated (of babies born, number tested)

4.4 Primary care services

4.4.1 Use of primary care as reported by adults

Cardiff and Vale University Health Board adults who reported particular service use, Welsh Health Survey 2008 & 2009.

		Δ	
	Observed per cent	Age- standardised percent	Wales per cent
Health service use	·		· ·
Family doctor (GP) in the past two weeks	17	18	18
In the past three months: Accident, injury or poisoning needing hospital treatment or a visit to casualty	5	5	5
In the past twelve months:			
Pharmacist	72	73	70
Dentist	70	70	70
Optician	50	52	49
Unweighted base (i)			
All aged 16+	3,242	3,242	29,331

Source: Welsh Health Survey 2008 + 2009

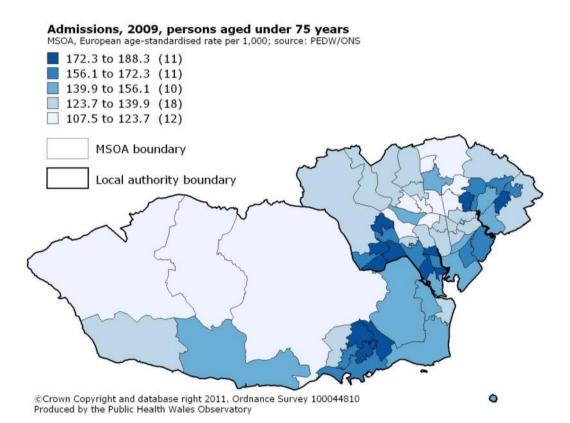
(i) Bases vary: those shown are for the whole sample.

Age standardised rate is standardised to the Wales population.

4.5 Use of secondary and tertiary care

4.5.1 Hospital admissions: individuals aged under 75

Middle super output areas



Hospital admissions in Cardiff and Vale University Health Board area, persons aged under 75, 2009, European age-standardised rates per 1,000

Produced by Public Health Wales Observatory, using data from NWIS (PEDW), ONS (MYE)

MSOA EASR with 95% confidence interval

```
Health Board (EASR = 140) Wales (EASR = 145) ---- Local Authority
```

Cardif	f	
039	188	⊢ ●–1
042	186	⊢●→
041	182	⊢●1
016	178	⊢●→
017	176	⊢●→
045	175	⊢∙
046	174	⊢●→
027	173	⊢∙
009	169	⊢∙
037	169	⊢●→
031	168	⊢●→
043	163	⊢●→
007	160	⊢●→Ⅰ
013	160	⊢●→
040	159	⊢●→
038	158	┝╼╾┥
044	157	⊢●→
015	152	₽_●_1
047	150	┝╴╇┈┥
036	149	⊢ ●1
005	146	- ▶1
022	144 H	↓
4 ⁰²³	142 +	•
V 023 V 029 V 011	138 🛏	- 1
	136 🛏	-
035	134 🛏	
033	133 🛏	•
024	131	
014	129 +	
028	129	
004	128	
034 006	127	
008	127	
010	127 ⊢●⊣	
003	125 ⊢• 125 ⊢•	
012	123	
012	124	4
001	124 .	
001	123	
002	120	
018	119	
021	119	
021	119 118	
019	117	
020	113	
025	108 ++	 Cardiff EASR = 139 -
	EASR per 1,000	

The Vale of Glamorgan

			••
012	178		⊢●⊣
007	176		⊢∙⊣
009	173		⊢ •
013	163		⊢●⊣
015	157		⊢ ●
008	152		⊷
∢ ⁰⁰⁶	149	ŀ	- p
0 004 0 14	143	H	4 ₁₁
ž 014	142	H	÷.
010	137		
005	135		4
011	126	⊢∙−	
003	123	⊢ •–-	
001	122	⊢∙−∙∣	Vale EASR = 148
002	120		V die EASR = 148

EASR per 1,000

45

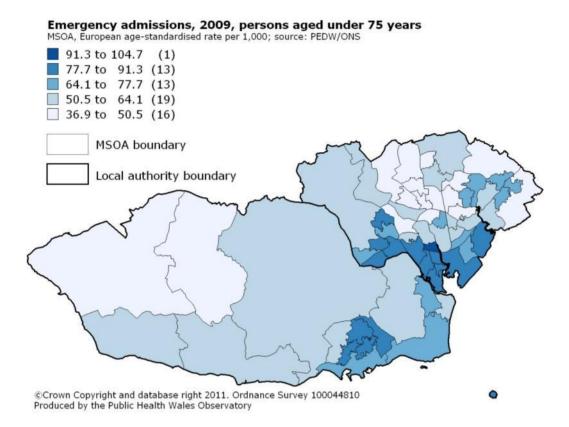
Local authorities

95% confidence Hospital admissions by local authority, persons aged under 75, 2009, interval European age-standardised rates per 1,000 Produced by Public Health Wales Observatory, using data from NWIS (PEDW), ONS (MYE) Ι Ι Ι Wales = 145.1 Ι Ι Т Т Т Т т Т Ι Ι 175.5 167.7 162.5 159.2 156.8 155.2 152.0 150.0 148.2 147.5 145.8 145.5 145.0 144.8 141.9 141.4 141.0 137.6 137.1 138.7 128.0 125.7 Cardiff Powys Torfaen Conwy Flintshire Merthyr Tydfil Gwynedd Denbighshire Bridgend Monmouthshire Newport Isle of Anglesey Wrexham Ceredigion Pembrokeshire Carmarthenshire Rhondda Cynon Taff Caerphilly Swansea Blaenau Gwent Neath Port Talbot The Vale of Glamorgan Areas ordered geographically from north west to south east

46

4.5.2 Emergency hospital admissions: individuals aged under 75

Middle super output areas



Emergency hospital admissions in Cardiff and Vale University Health Board area, persons aged under 75, 2009, European age-standardised rates per 1,000

Produced by Public Health Wales Observatory, using data from NWIS (PEDW), ONS (MYE)

```
MSOA EASR with 95% confidence interval
```

----- Health Board (EASR = 62) ----- Wales (EASR = 68) ----- Local Authority

Cardif	f		
042	105		⊢●→
046	91		⊢
039	90		⊢
044	84		⊢●1
041	82		⊢●1
045	82		⊢
027	81		⊢ ●i
040	79		⊢●→
037	79		⊢●1
047	78		┝━━━┥
031	77		⊢ ●
036	77		┝━━━┥
043	75		_●
016	75		 1
038	70	⊢	●
017	70	⊢	₽
009	69	μ	P1
007	68	-	<u> </u>
028	66 H	•	
013	65 ^L	•	
015	63 H	•	4
033	61 ⊢		
	61 H		
40 35 034 032	60 🛏		
	59 ⊢-•		4
005	59 🛏	H	
030	57 ⊣●	H	
006	57 ⊢●	1	
023	56 ⊢•		
029	55 ⊢●		
014	55 ⊢∙		
022	55 ⊢●		
001	52		
011	50 +++	_	
003	50 +++		
025 010	49 H		
	<u>48</u> ⊢⊶ 47 ⊢⊶		
026 004	17		
004	10		
024	10		
021	46 ⊨ ● ⊣ 45 ⊨ ● ⊣		
012			
002	42 ⊢• 42 ⊢•I		
020	41 +•+		
019	41 +• +		
018	37 ⊢⊷⊣		Cardiff EASR = 60
	EASR per 1,000	-	

The Vale of Glamorgan

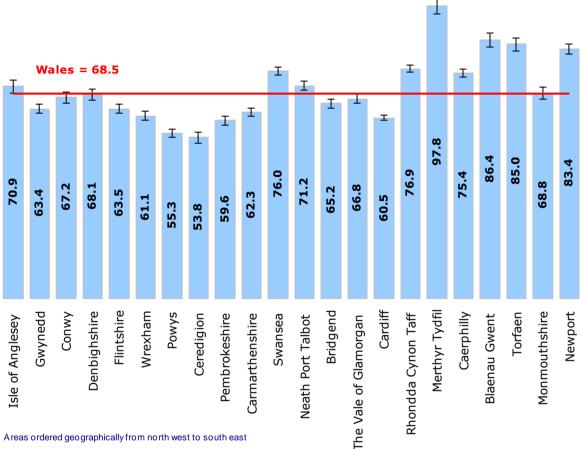
007	89	⊢⊷⊣
012	86	⊢⊷⊣
009	86	⊢∙⊣
013	81	⊢∙
015	74	- ●
008	68	
∢ 004	66 H	
80 004 006 005	63 H	<mark>→ •</mark> •
Σ 005	60 ⊢•	-
014	56 ⊢•	
010	54 ⊢●→	
003	53 ⊢●→	
011	52 ⊢•	
002	49 ⊢∙–	
001	47 ⊢●→	Vale EASR = 67
	E4.0D 1.000	

EASR per 1,000

Local authorities

Emergency hospital admissions by local authority, persons aged under 75, 2009, European age-standardised rates per 1,000 Produced by Public Health Wales Observatory, using data from NWIS (PEDW), ONS (MYE)

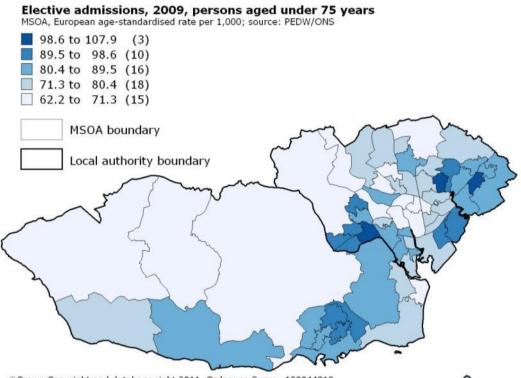
95% confidence linterval



Areas ordered geographically from north west to south east

4.5.3 Elective hospital admissions: individuals aged under 75

Middle super output areas



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Elective hospital admissions in Cardiff and Vale University Health Board area, persons aged under 75, 2009, European age-standardised rates per 1,000

Produced by Public Health Wales Observatory, using data from NWIS (PEDW), ONS (MYE)

MSOA EASR with 95% confidence interval

Health Board (EASR = 78) Wales (EASR = 77) ----- Local Authority

Cardif	f	
016	108	⊢ ●
017	103	⊢●→
041	100	⊢
039	98	⊢●→
009	94	⊢●(
027	93	⊢●──┤
037	93	⊢●→
045	92	⊢●⊣
043	91	⊢ ●i
038	90	⊢ ●
013	89	⊢ •−−1
022	89	⊢ ●
015	88	⊢●──┤
031	86	┝━━━┥
007	86	┝━━━┥
042	85	●
046	84	_●
023	83	-●
011	82 +	- ●
005	81 +	- ●
040	81 ⊢	●
018	78 ⊢	 1
⋖ ⁰²⁴	76 🛏	
024 019 029	76 🛏	
	75 ⊢●	
036	74 🛏	
004	74 🛏	-
003	74	-
002	74	-
008	73	H
035	73	-
021 010	73	H
010 047	73	
047	73 ⊢● 72 ⊢●	<u></u>
033	72	4
012	71	
030		Г Н
026	71 •• 70 ••	<u> </u>
020	69 ⊢	
014	69 ⊢	
006	69 +	
028	67	
034	64 ++	
025	62 +	
032	62	0 1/11 51 00 77
001	62 H	— Cardiff EASR = 77 -
ı	EASR per 1.000	

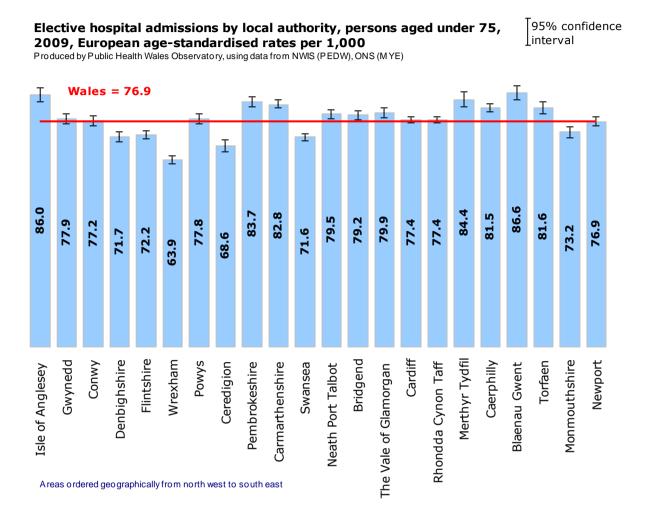
The Vale of Glamorgan

012	95	⊢●1
009	91	⊢∙
007	90	┝╼╾┥
013	83	
014	83	⊬∙⊷⊣
006	82 +	- •1
⋖ ⁰¹⁰	82 ⊦	↓ ●
0 015 W 004	81 +	↓ ●
Σ ₀₀₄	78 ⊢	-
008	78 ⊢	<u>i</u>
011	74 ⊢●	-
005	71 ⊢●	
001	70 ⊢●	
003	67 ⊢●	Vale EASR = 80
002	65 🛏	

EASR per 1,000

EASR per 1,000

Local authorities



52

5 Health status

5.1 Health status: key points

There are consistent general patterns exhibited across the various indices of health status. Cardiff and Vale UHB generally has similar or better levels of health than Wales as a whole. Between the local authority areas of the health board, Cardiff shows poorer levels of health than the Vale of Glamorgan; however there is considerable variation within local authority areas.

Low birth weight

Low birth weight is associated with poor maternal health and lifestyle and there is increasing evidence to show an association with adverse effects later in life. The percentage of singleton live born babies weighing under 2500g in Cardiff and Vale UHB is similar to Wales. At the MSOA level, the areas with the highest percentages are Fairwater, Llanrumney and Pontprennau in Cardiff.

Self-reported health status

The Welsh Health Survey contains a number of questions on health status, including the SF36 questionnaire which can be summarised into overall physical and mental health scores. The latest results show that self reported physical and mental health scores are broadly similar to Wales as a whole. At the local authority level, self reported physical and mental health scores are better in the Vale of Glamorgan than in Cardiff. The data also show that Cardiff and Vale UHB and its local authority areas have lower age-standardised self reported rates of limiting long term illness (which includes problems related to old age) than Wales. Looking at persons reporting current treatment for a mental health condition, the health board and local authority rates are again similar to Wales.

Mortality from specific conditions

Circulatory disease includes heart disease and stroke and is the most common underlying cause of death in Wales. Lifestyle factors such as diet, exercise, alcohol consumption and especially smoking are known to be implicated in circulatory disease. The European agestandardised mortality rate for Cardiff and Vale UHB is lower than that for Wales and there is no substantial variation across the two local authority areas. However, at MSOA level there is over a trebling of the rate between the lowest and highest areas. The lowest rates are found in the Cyncoed area of Cardiff and the highest in the Plasnewydd; Roath and Riverside areas of Cardiff. The pattern is broadly similar for morality from circulatory disease for the under 75 age group. Coronary heart disease is a sub-category within circulatory disease and includes heart attacks. Smoking is a major cause of coronary heart disease. The European age-standardised mortality rate for Cardiff and Vale UHB is lower than that for Wales and there is no substantial variation across the two local authorities in the health board area. At MSOA level, once again, variation is high. Highest rates are seen for the Butetown; Grangetown; Cathays and Blackweir in Cardiff. The lowest rates are in the Cyncoed; Lisvane; Llanishen; Rhiwbina; Garthmor and Pantmawr areas of Cardiff.

Cancer is the second most common cause of death in Wales. Causes of cancer are multifactorial, varying depending on the site but smoking and other lifestyle factors are important risk factors. The European age-standardised mortality rate for Cardiff and Vale UHB is similar to Wales but at local authority level, the rate for Cardiff is higher than the rate for the Vale of Glamorgan. At MSOA level there is significant variation. The lowest rates are located in Llanishen and Thornhill areas of Cardiff; with the highest rates in the Splott area of Cardiff.

Respiratory disease is a very common cause of death. Once again, smoking is a major risk factor for respiratory disease. The European age-standardised mortality rate for Cardiff and Vale UHB is similar to Wales and there is no substantial variation across local authorities in the health board area. At the MSOA level there is considerable variation with the highest rate more than seven times greater than the lowest rate. The wider confidence intervals on the caterpillar charts are indicative of the fact that there are fewer respiratory disease deaths than for cancer or circulatory disease. The lowest rates are found in Llanishen; Thornhill; Radyr; Morganstown; Pentyrch; Heath; Whitchurch; Tongwynlais; Cyncoed and Pentwyn areas of Cardiff. Higher rates are seen in Splott in Cardiff.

Cancer survival

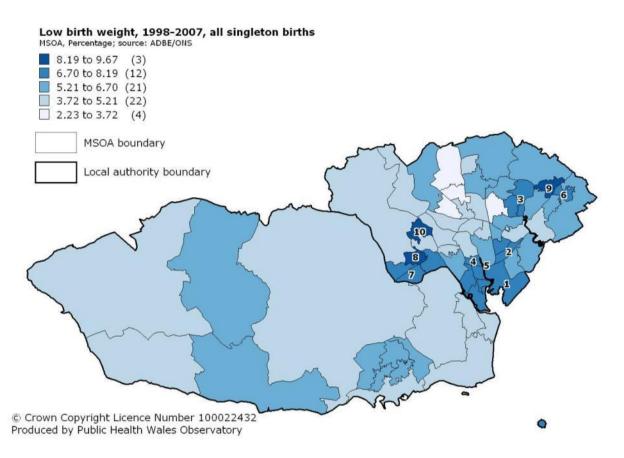
Relative survival is the most widely used method in population studies. It is the ratio of the survival observed in the group of cancer patients to the survival that would be expected if they were subject to the same overall mortality rates by age, sex and calendar period as the general population. The expected probabilities are obtained from life tables for Wales that provide the life expectancy of persons for a given year by age and sex. The problems arising with crude survival are therefore overcome. It enables one to measure variations in cancer survival (or its complement, mortality) independently of variations in expected (background) mortality associated with various factors (age and sex in these analyses). The regional data for Wales indicate a steady improvement in one year relative survival for both males and females.

The site-specific one and five year relative survival figures are comparable between Cardiff and Vale UHB and Wales as a whole. However, all malignancies survival for one and five years for males and survival for one year for females are statistically significantly better in Cardiff and Vale UHB than Wales, as is five year survival for prostate cancer (males).

5.2 Physical and mental health

5.2.1 Low birth weight

Middle super output areas



Numbers on map indicate MSOAs with a rate statistically significantly higher than the all Wales rate.

Low birth weight in Cardiff and Vale University Health Board area, percentage of singleton live births, 1998-2007

Produced by Public Health Wales Observatory, using data from ONS (ADBE, MYE)

F

MSOA % with 95% _____ Health Board (6.0%) _____ Wales (5.8%) _ - - · Local Authority confidence interval

Ca	Cardiff					
(027	9.7	• • • • •			
(007	9.0	• • • • • • • • • • • • • • • • • • • •			
(039	8.5	• • • •			
(045	7.8	• • · · · · · · · · · · · · · · · · · ·			
(013	7.7	•			
(044	7.6	▶ • • • • • • • • • • • • • • • • • • •			
(042	7.6	<mark>₽</mark> ↓			
(009	7.4	• • • • • • • • • • • • • • • • • • • •			
(036	7.4	<mark>₽</mark>			
(047	7.4	• •			
	046	7.3 ⊦	• • • • • • • • • • • • • • • • • • •			
	043	7.1 ⊢	₽ ●1			
	033	7.0 ⊢				
	017	6.9 ⊢				
	041	6.7 ⊣				
	038	6.6 ⊢				
	015	6.5 ⊢				
	030	6.3 -				
	005	6.1 ⊢	l <mark></mark> -			
	011	6.1 ⊢				
	040	<u>6.1</u> ⊢				
	037	6.0 ⊢				
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	003	5.8 ⊢• 5.7 ⊢•	• · · ·			
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	020	3.6 ⊢ • 1	-			
	012	3.2	Cardiff %LBW = 6.2			
(019	⊢ −•−−1 2.2				

The Vale of Glamorgan

	012	6.7 H-	- -
	007	6.6 💾	-•l
	002	6.5 ⊢	• I
	013	6.4 ⊢ -	
	009	6.0 -	•I
	014	6.0 ⊢	•I
	010	5.3 ⊢ •	
so	015 008	5.0 -	-1
Σ	800	4.9 ⊢	1
	004	4.9 ⊢	-4
	011	4.6 + •	
	001	4.4	
	005	4.3 ⊢	
	003	4.2 ⊢	Vale %LBW = 5.5
	006	4.1 ⊢ ● ↓	

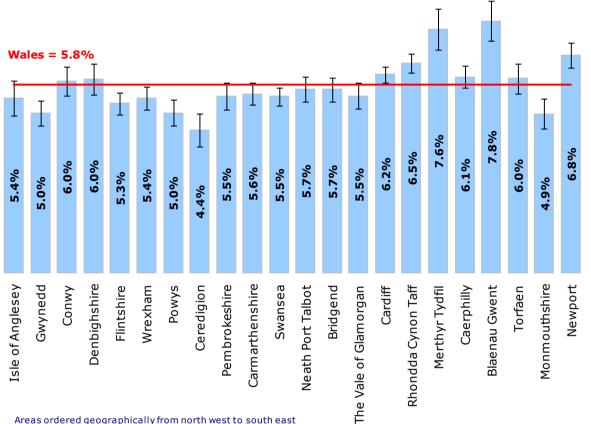
% low birthweight

Local authorities

Low birth weight by local authority, percentatge of singleton live births, 1998-2007

95% confidence interval

Produced by Public Health Wales Observatory, using data from ONS (ADBE, MYE)

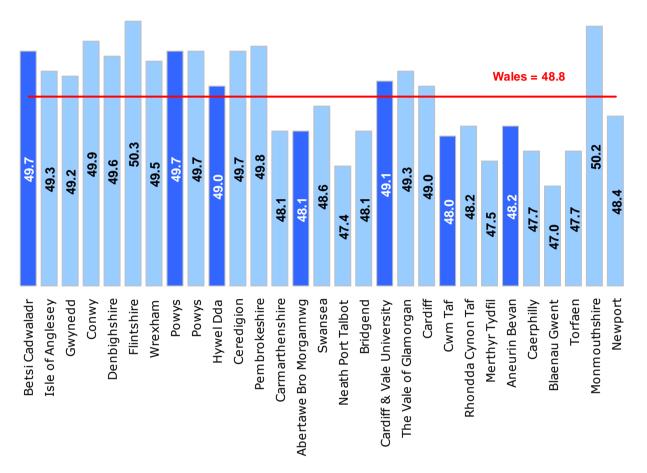


Areas ordered geographically from north west to south east

5.2.2 Physical health as reported by adults*

Mean SF-36 Physical component summary score by local authority and health board, age standardised rate, 2008-2009

Produced by Public Health Wales Observatory using data from the Welsh Health Survey, 2008 and 2009



Areas ordered geographically from north west to south east

* Y-axis is truncated to 45

5.2.3 Mental health as reported by adults*

Wales = 49.9 51.6 51.6 51.3 51.3 51.2 51.0 51.0 51.0 50.7 50.7 50.3 50.2 50.2 50.1 49.8 49.6 49.5 49.7 49.7 49.3 49.4 49.1 49.2 48.9 48.6 48.7 48.5 48.0 47.7 Powys Powys Carm arthenshire Monmouthshire Denbighshire Ceredigion Pem brokeshire Abertawe Bro Morgannwg Swansea Newport Hywel Dda Bridgend Blaenau Gwent Betsi Cadwaladr Isle of Anglesey Gwynedd Flintshire Wrexham Neath Port Talbot Cardiff & Vale University The Vale of Glamorgan Cwm Taf Rhondda Cynon Taf Aneurin Bevan **Caerphilly** Torfaen Conwy Cardiff **Merthyr Tydfil**

Areas ordered geographically from north west to south east

* Y-axis is truncated to 45

Mean SF-36 Mental component summary score by local authority and health board, age standardised rate, 2008-2009

Produced by Public Health Wales Observatory using data from the Welsh Health Survey, 2008 and 2009

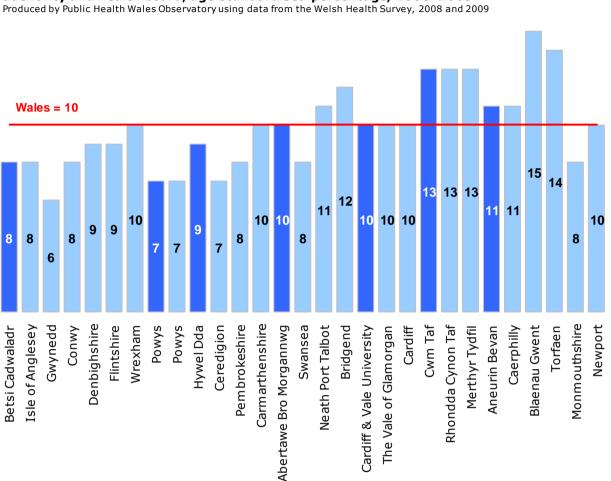
5.2.4 Limiting long term illness as reported by adults

Adults who reported having a limiting long-term illness by local authority

and health board, age standardised percentage, 2008-2009 Produced by Public Health Wales Observatory using data from the Welsh Health Survey, 2008 and 2009 Wales = 27 33 32 31 31 31 30 30 30 29 28 29 29 29 28 27 26 26 26 26 26 26 25 25 25 24 24 24 24 23 Powys Powys Ceredigion Pem brokeshire Carm arthenshire Abertawe Bro Morgannwg Swansea Cardiff Monmouthshire Newport Denbighshire Hywel Dda Bridgend The Vale of Glamorgan Aneurin Bevan Torfaen Betsi Cadwaladr Flintshire Neath Port Talbot Cardiff & Vale University Cwm Taf **Rhondda Cynon Taf** Isle of Anglesey Gwynedd Conwy Wrexham **Merthyr Tydfil** Caerphilly Blaenau Gwent

Areas ordered geographically from north west to south east

60



5.2.5 Mental illness as reported by adult

Adults who reported currently being treated for a mental illness by local authority and health board, age standardised percentage, 2008-2009 Produced by Public Health Wales Observatory using data from the Welsh Health Survey, 2008 and 2009

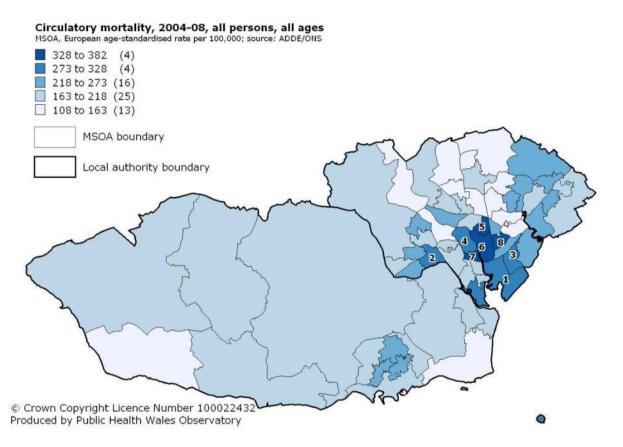
Areas ordered geographically from north west to south east

Director of Public Health Annual Report: Chart Book

5.3 Mortality from specific conditions

5.3.1 Mortality from circulatory disease, all ages

Middle super output areas



Numbers on map indicate MSOAs with a rate statistically significantly higher than the all Wales rate.

Mortality from circulatory disease in Cardiff and Vale University Health Board area, all persons, 2004-08, European age-standardised rates per 100,000

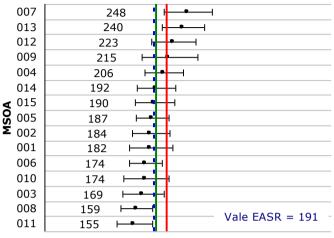
Produced by Public Health Wales Observatory, using data from ONS (ADDE, MYE)

MSOA EASR with 95% confidence interval

- Health Board (EASR = 195) - Wales (EASR = 214) - - · Local Authority

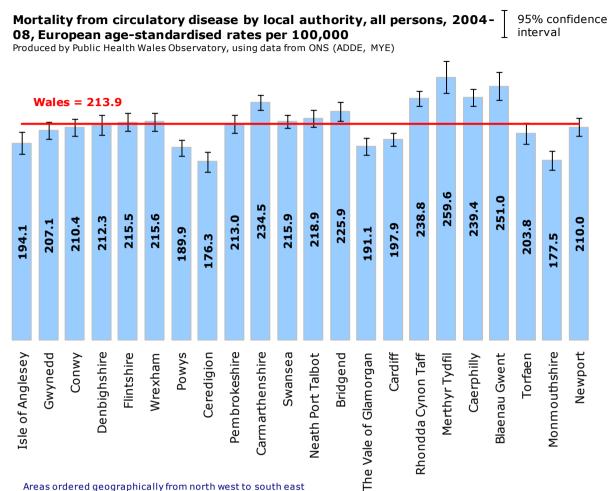
Cardiff F ŀ -1 н F H F F ŀ **V 043** 011 013 F -1 н Н н ŀ ł F н H н ŀ F -1 124⊢ -1 121 --1 119 --1 Cardiff EASR = 198 -108 -EASR per 100,000

The Vale of Glamorgan



EASR per 100,000

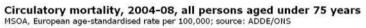
Local authorities

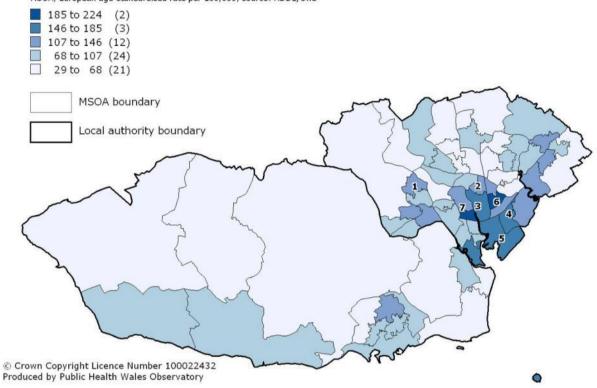


Areas ordered geographically from north west to south east

5.3.2 Mortality from circulatory disease, under 75s

Middle super output areas





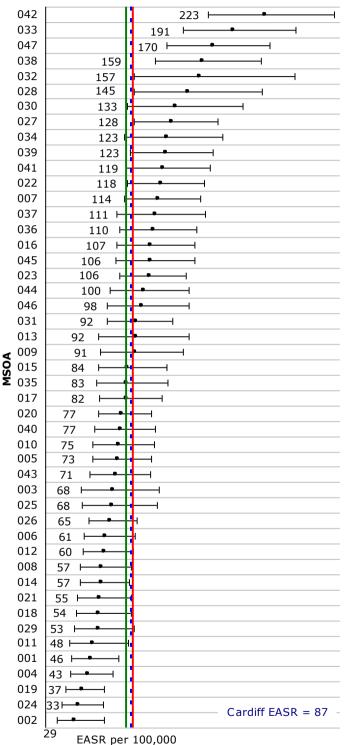
Numbers on map indicate MSOAs with a rate statistically significantly higher than the all Wales rate.

Mortality from circulatory disease in Cardiff and Vale University Health Board area, all persons aged under 75, 2004-08, European age-standardised rates per 100,000 Produced by Public Health Wales Observatory, using data from ONS (ADDE, MYE)

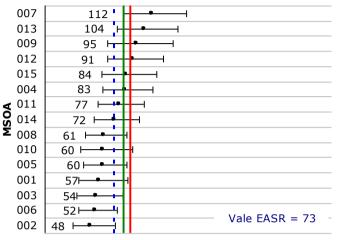
MSOA EASR with 95% confidence interval

- Health Board (EASR = 82) ------ Wales (EASR = 90) - - - ·Local Authority

Cardiff

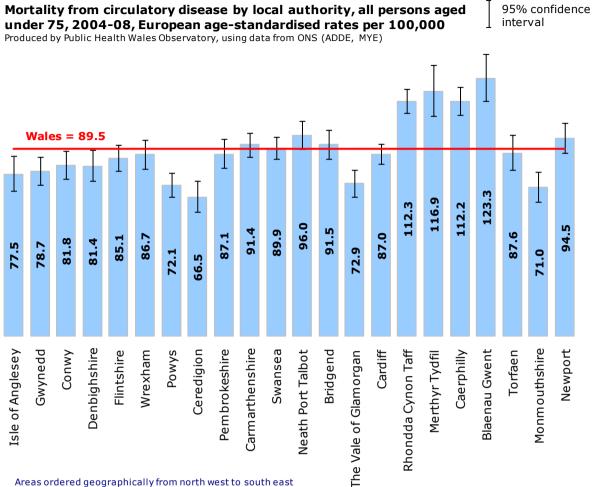


The Vale of Glamorgan



EASR per 100,000

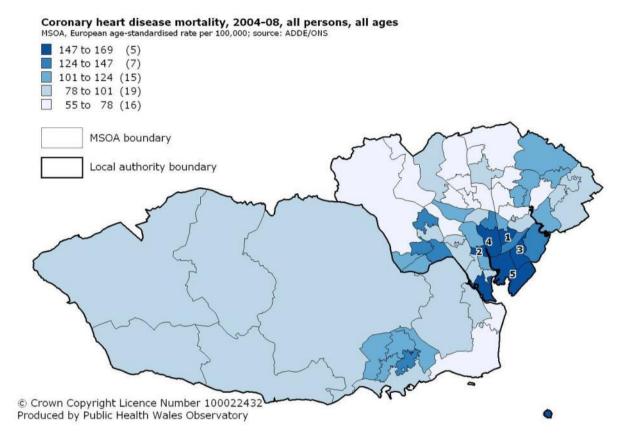
Local authorities



Areas ordered geographically from north west to south east

5.3.3 Mortality from coronary heart disease

Middle super output areas

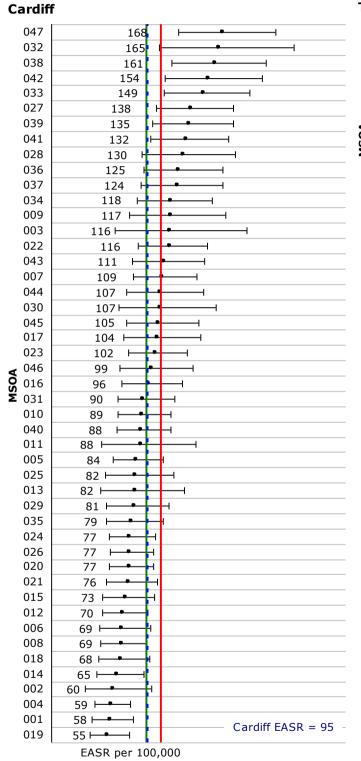


Numbers on map indicate MSOAs with a rate statistically significantly higher than the all Wales rate.

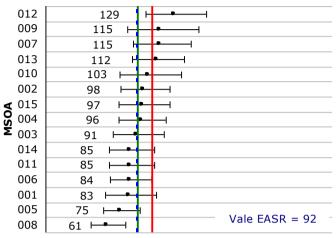
Mortality from coronary heart disease in Cardiff and Vale University Health Board area, all persons, 2004-08, European age-standardised rates per 100,000

Produced by Public Health Wales Observatory, using data from ONS (ADDE, MYE)

MSOA EASR with 95%



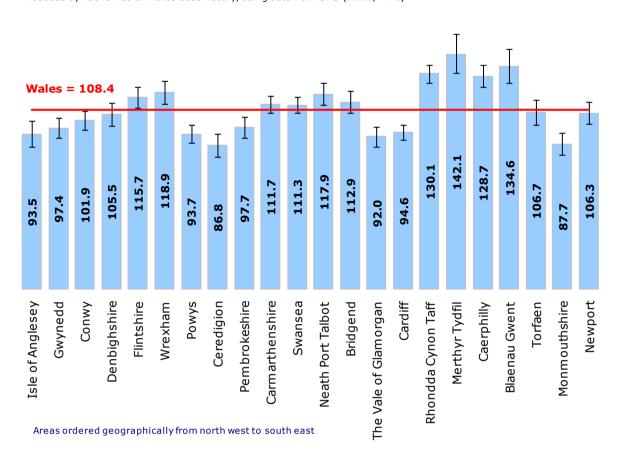
The Vale of Glamorgan



EASR per 100,000

Local authorities

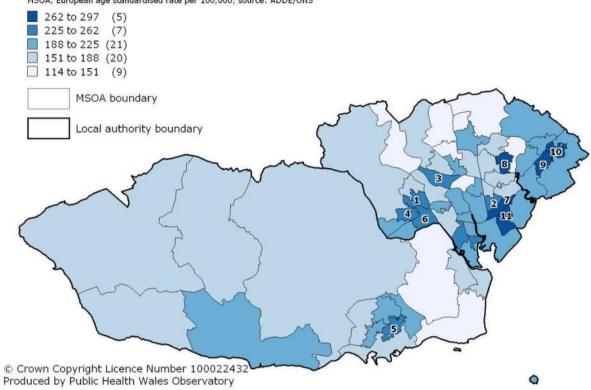
Mortality from coronary heart disease by local authority, all persons, 2004-08, European age-standardised rates per 100,000 Produced by Public Health Wales Observatory, using data from ONS (ADDE, MYE) 95% confidence interval



5.3.4 Mortality from cancer

Middle super output areas





Numbers on map indicate MSOAs with a rate statistically significantly higher than the all Wales rate.

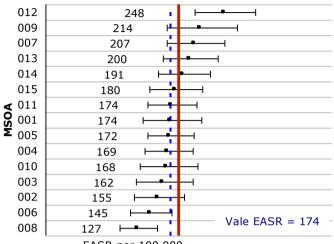
Mortality from all cancers in Cardiff and Vale University Health Board area, all persons, 2004-08, European age-standardised rates per 100,000

Produced by Public Health Wales Observatory, using data from ONS (ADDE, MYE)

MSOA EASR with 95% ——— Health Board (EASR = 187) ——— Wales (EASR = 186) - - · Local Authority confidence interval

Cardiff H ⊢ _ ⊢ н -1 н F F -H Н F MSOA -1 ŀ F F ŀ F н F F **-**---Ť Н -1 131 ⊦ F Cardiff EASR = 194 115 ⊢ EASR per 100,000

The Vale of Glamorgan

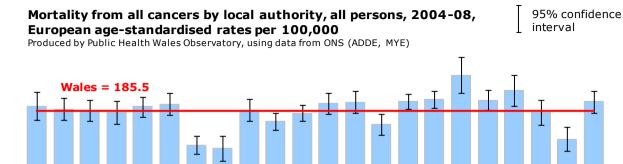


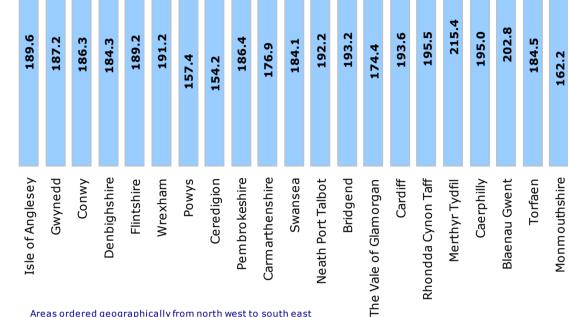
EASR per 100,000

193.4

Newport

Local authorities

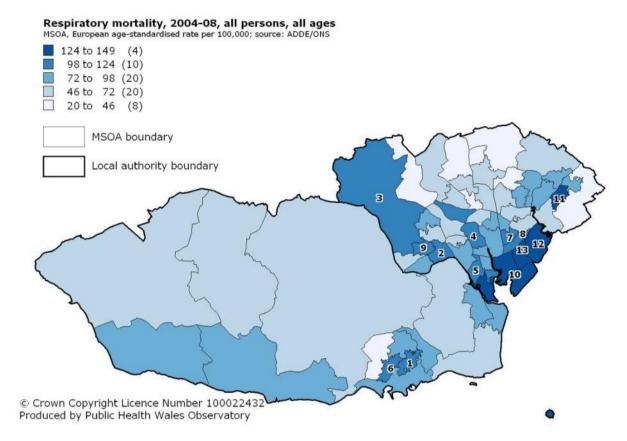




Areas ordered geographically from north west to south east

5.3.5 Mortality from respiratory disease

Middle super output areas



Numbers on map indicate MSOAs with a rate statistically significantly higher than the all Wales rate.

Mortality from respiratory disease in Cardiff and Vale University Health Board area, all persons, 2004-08, European age-standardised rates per 100,000

-

4

Produced by Public Health Wales Observatory, using data from ONS (ADDE, MYE)

confidence interval

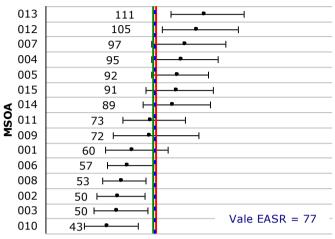
21

MSOA EASR with 95% ______ Health Board (EASR = 75) _____ Wales (EASR = 77) - - Local Authority

Cardiff 038 148 ŀ 037 143 F 016 130 047 126 039 118 036 117 033 116 046 110 034 109 014 106 041 106 023 99 044 97 017 97 ⊢ 032 96 F 045 93 Н 028 93 F 015 91 H 013 90 ĿН 007 87 ⊢ 009 86 H 040 85 F 030 76 ⊦ **V 030** 042 027 76 ⊦ 73 ŀ 031 67 H 043 67 ⊢ 022 65 H 025 64 ⊢ 035 63 ⊦ 010 62 F 020 57 005 57 H 003 52 ⊢ 019 52 ⊢ 024 50 ⊢ 029 49⊢ 012 47 ⊢ 026 46 ⊢ . 018 46 ⊢ . 004 45 **⊢** 011 44 ⊢ 001 44 ⊢-• 008 35 --021 33 H . -1 006 32⊢ . Cardiff EASR = 74 -002 F -1

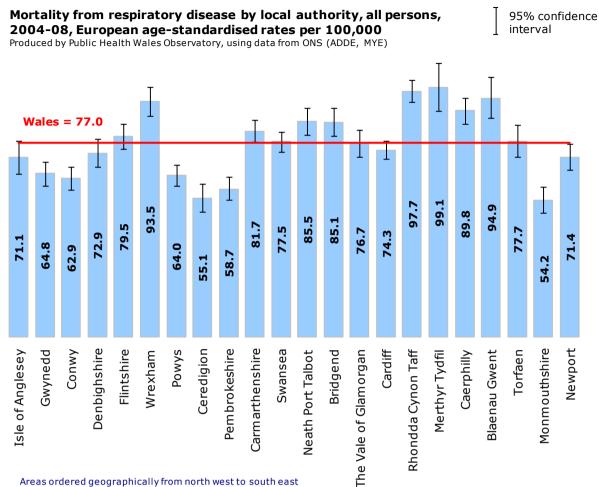
EASR per 100,000

The Vale of Glamorgan



EASR per 100,000

Local authorities

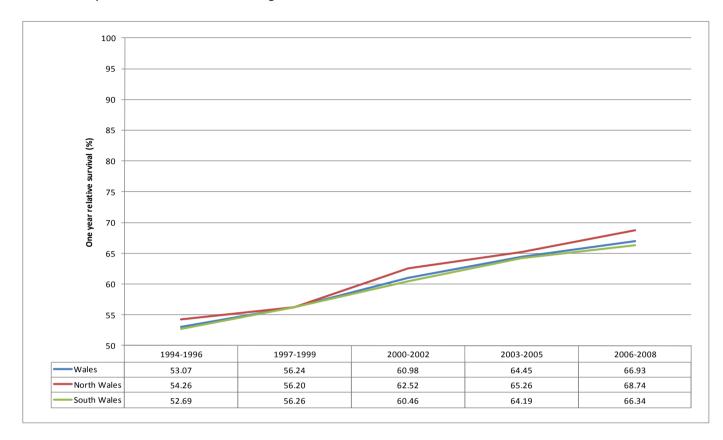


Areas ordered geographically from north west to south east

5.3.6 Cancer survival

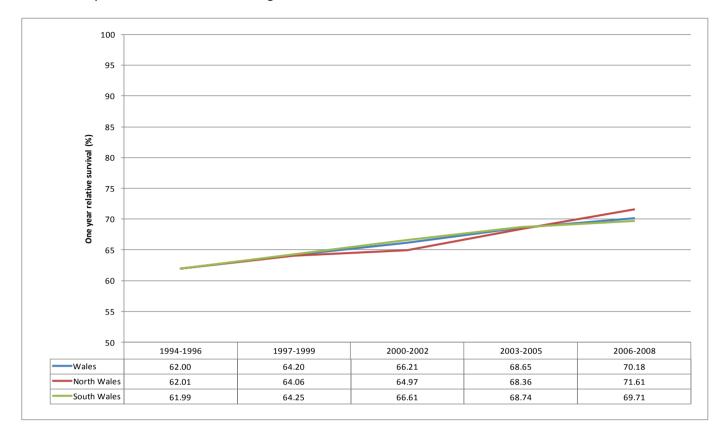
One year relative survival, all cancer (excluding non melanoma skin cancer), males, Wales regions, all persons, 1994/6-2006/8

Produced by the Welsh Cancer Intelligence and Surveillance Unit



One year relative survival, all cancer (excluding non melanoma skin cancer), females, Wales regions, all persons, 1994/6-2006/8

Produced by the Welsh Cancer Intelligence and Surveillance Unit



One year and five year relative survival, by cancer site Cardiff and Vale University Health Board area, males and females, 2000-2004 (95% confidence intervals) Produced by the Welsh Cancer Intelligence and Surveillance Unit

Male

	1 year relative survival			
Cancer Site	Cardiff & Vale All Wales			
Prostate	91.14 (88.96, 92.90)	88.80 (87.95, 89.59)		
Lung	22.92 (19.71, 26.28)	22.84 (21.71, 24.00)		
Colorectal	72.88 (68.73, 76.58)	71.51 (70.12, 72.85)		
Bladder	85.38 (80.69, 89.00)	86.10 (84.51, 87.53)		
All malignancies (excl NMSC)	64.65 (63.20, 66.07)	62.11 (61.57, 62.63)		

	5 year relative survival		
Cancer Site	Cardiff & Vale	All Wales	
Prostate	83.06 (79.75, 85.87)	77.17 (75.83, 78.45)	
Lung	4.96 (3.37, 6.99)	5.36 (4.73, 6.04)	
Colorectal	49.09 (44.20, 53.80)	48.59 (46.91, 50.24)	
Bladder	72.50 (66.12, 77.89)	72.34 (70.04, 74.50)	
All malignancies (excl NMSC)	49.05 (47.40, 50.67)	45.39 (44.79, 45.99)	

Female

	1 year relative survival	
Cancer Site	Cardiff & Vale	All Wales
Breast	95.01 (93.40, 96.24)	93.41 (92.83, 93.94)
Lung	27.82 (23.78, 31.99)	25.53 (24.09, 26.99)
Colorectal	71.64 (66.97, 75.77)	68.80 (67.19, 70.36)
Ovary	69.49 (62.46, 75.47)	63.92 (61.50, 66.24)
Corpus Uteri	88.96 (82.63, 93.08)	89.83 (87.90, 91.46)
All malignancies (excl NMSC)	69.70 (68.23, 71.11)	67.24 (66.71, 67.76)

	5 year relative survival	
Cancer Site	Cardiff & Vale	All Wales
Breast	84.33 (81.68, 86.62)	82.06 (81.14, 82.94)
Lung	7.39 (5.10, 10.22)	6.85 (6.00, 7.76)
Colorectal	52.55 (47.03, 57.76)	49.18 (47.31, 51.01)
Ovary	37.92 (30.75, 45.04)	39.29 (36.78, 41.80)
Corpus Uteri	76.08 (67.59, 82.63)	77.77 (75.02, 80.25)
All malignancies (excl NMSC)	54.87 (53.17, 56.53)	52.76 (52.17, 53.36)

Significantly higher than Wales Significantly lower than Wales

Excl NSCM: Excluding non melanoma skin cancer

Appendix A: Original source reports and further information

The original reports for the data included in this chart book, together with further information and, in some cases, methodological information and other guides to interpretation can be found through the producers of the charts, tables or data included:

Demography	Public Health Wales Observatory	www.publichealthwalesobservatory. wales.nhs.uk
Determinants of health	Public Health Wales Observatory	www.publichealthwalesobservatory. wales.nhs.uk
Use of prevention services: vaccination uptake	Vaccine Preventable Disease Programme	http://www.wales.nhs.uk/sitesplus/ 888/page/43510
Use of prevention services: screening	Public Health Wales Screening Services	http://www.screeningservices.org.u k/
Use of primary care by adults	Welsh Assembly Government, Welsh Health Survey	http://new.wales.gov.uk/
Use of secondary and tertiary care	Public Health Wales Observatory	www.publichealthwalesobservatory. wales.nhs.uk
Health status	Public Health Wales Observatory	www.publichealthwalesobservatory. wales.nhs.uk
Cancer survival	Welsh Cancer Surveillance and Intelligence Unit	http://www.wales.nhs.uk/sites3/ho me.cfm?OrgID=242

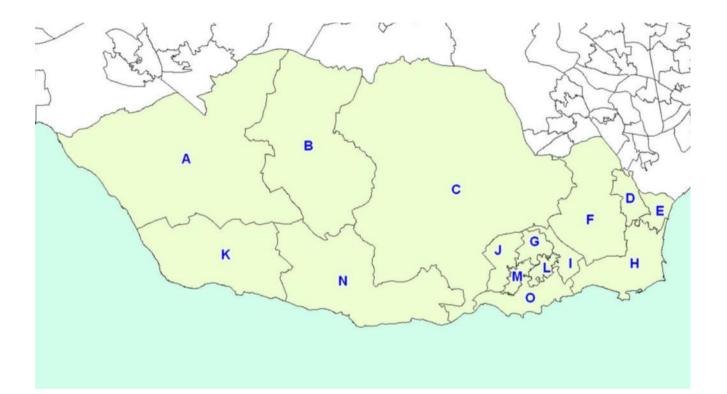
Appendix B: Glossary

Middle Super Output Areas	Middle super output areas (MSOAs) were released by the Office for National Statistics (ONS) in 2004. In contrast with administrative boundaries such as electoral divisions (wards), super output areas were created for the purpose of showing statistical data. MSOAs have a mean population of 7,500 and a minimum of 5,000. There are 413 MSOAs in Wales and 62 MSOAs in the Cardiff and Vale University Health Board area. These are shown on the maps in Appendix 2. The ONS have stated that super output area geographies will be fixed for at least 10 years. The advantage of using these statistical geographies is stability and homogeneity. However, the main drawback is that they do not conform to known administrative boundaries such as electoral divisions (wards); this makes them less amenable to the public and local government.
Age- standardised rate	Age-standardisation allows comparison of rates across different populations while taking account of the different age structures of those populations. This chart book uses the direct standardisation method, which produces the rate you would get if the population had the same age-structure as a particular 'standard' population. The Wales standard population has been used for the Welsh Health Survey indicators and the theoretical European standard population (ESP) has been used for all other age-standardised indicators included in this chart book. An age-standardised rate only allows for comparison between the rates which have been standardised to the same standard population.
Confidence intervals	Confidence intervals are indications of the random variation that would be expected around a rate. Confidence intervals must be considered when assessing or interpreting a rate. The 95% confidence interval represents a range which has a 95% probability of including the underlying population rate. The range of the confidence interval is dependent on the size of the population from which the events came. Rates based on small populations are likely to have wider confidence intervals and rates based on large populations are likely to have narrower confidence intervals.
Statistical significance	A result may be deemed statistically significant if it is considered unlikely to have occurred by chance alone. The basis for such judgements is a predetermined and arbitrary cut-off, usually taken as 5% or 0.05. A result may be clinically significant whilst not being statistically significant and vice versa.

Appendix C: Maps showing Middle Super Output Areas in the Cardiff and Vale University Health Board area

The Public Health Wales Observatory has also produced a web-based interactive map showing MSOA boundaries, with the added facility of background Ordnance Survey mapping. Follow this link: <u>http://www2.nphs.wales.nhs.uk/InstantAtlas/GeographyTool/atlas.html</u>

Vale of Glamorgan



- A The Vale of Glamorgan 001
- B The Vale of Glamorgan 002
- C The Vale of Glamorgan 003
- D The Vale of Glamorgan 004
- E The Vale of Glamorgan 005
- F The Vale of Glamorgan 006
- G The Vale of Glamorgan 007 H The Vale of Glamorgan 008
- I The Vale of Glamorgan 009
- J The Vale of Glamorgan 010
- K The Vale of Glamorgan 011
- L The Vale of Glamorgan 012
- M The Vale of Glamorgan 013
- N The Vale of Glamorgan 014
- O The Vale of Glamorgan 015

Cardiff



A B C D E F G H I J K L M N	Cardiff 001 Cardiff 002 Cardiff 003 Cardiff 004 Cardiff 005 Cardiff 006 Cardiff 007 Cardiff 008 Cardiff 009 Cardiff 010 Cardiff 011 Cardiff 012 Cardiff 013 Cardiff 014	Y Z AB AC AD AF AG AI AJ AK AL	Cardiff 025 Cardiff 026 Cardiff 027 Cardiff 028 Cardiff 029 Cardiff 030 Cardiff 031 Cardiff 032 Cardiff 033 Cardiff 034 Cardiff 035 Cardiff 036 Cardiff 037 Cardiff 038
К	Cardiff 011	ΔT	Cardiff 035
••	04.4011	<i>,</i> . <u>-</u>	00.000
-	04.4011		00.000
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0	Cardiff 015	AM	Cardiff 039
Р	Cardiff 016	AN	Cardiff 040
Q	Cardiff 017	AO	Cardiff 041
R	Cardiff 018	AP	Cardiff 042
S	Cardiff 019	AQ	Cardiff 043
Т	Cardiff 020	AR	Cardiff 044
U	Cardiff 021	AS	Cardiff 045
V	Cardiff 022	AT	Cardiff 046
W	Cardiff 023	AU	Cardiff 047
Х	Cardiff 024		