

# The Contribution of the West Midlands Public Health Observatory to Regional Health Intelligence

Stacey Croft

Acting Principal Public Health Information Specialist  
West Midlands Public Health Observatory

# What is WMPHO?

- West Midlands Public Health Observatory
- Set up following Saving Lives: Our Healthier Nation to
  - Monitor trends
  - Identify areas for action
  - Provide advice on methodologies
  - Source datasets to fill information gaps
- One of a network of 12 Observatories that form the national Association of Public Health Observatories (APHO)
- Department of Health Governance
- Lead areas: Environment, Older People and Social Care

# Uses of public health intelligence in the Region

- SHA
  - Performance Management
  - Strategic planning
- PCT
  - Joint Strategic Needs Assessment
  - Service Planning & Commissioning
  - Local Area Agreements
- LA
  - Local Strategic Partnerships
  - Health Inequalities

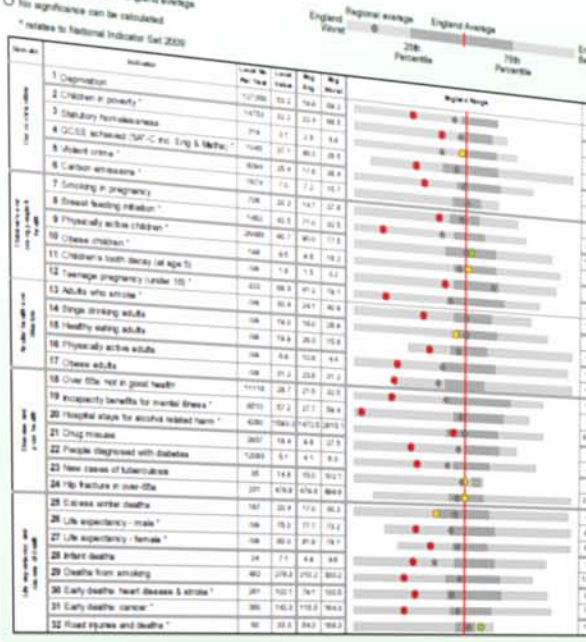
# The Work of the WMPHO

- Regularly updated, comparative indicator sets;
- Complex analyses and reports using multiple data sources;
- Bespoke local analytical work for PCTs, LAs, SHAs, academe and others;
- Ad hoc request service for information provision and methodological advice;
- Websites, tools and signposting of useful resources;
- Commissioned work for national and other bodies;
- Regional capacity building to support training and development of all those using information and intelligence to develop public health intelligence, skills and awareness;
- Capacity building through partnerships and networks.

# APHO Health Profiles

The chart below shows how people's health in this local authority compares to the rest of England. The local result for each indicator is shown as a circle, against the range of results for England which is shown as a bar. A green circle may still indicate an important public health problem.

- Significantly worse than England average
- Not significantly different from England average
- Significantly better than England average
- No significance can be established



**Notes:** (numbers in bold refer to the above indicators)

1 % of people in this area living in 20% most deprived areas of England 2007 2 % of children living in families receiving means tested benefits 2007 3 Crude rate per 1,000 population 2007 04 4 % of Key Stage 2 children with reading age below 5 years 2007 08 5 Reported violence against the person crime rate per 1,000 population 2007 08 6 Total and over 65 emissions per capita (tonnes CO2 per head) 2007 7 % of mothers smoking in pregnancy where status is known 2007 08 8 % of mothers initiating breast feeding where status is known 2007 08 9 % 5-15 year olds who spent at least 2 hours per week on high quality PE and school sport 2007 08 10 % of school children in recreation year 2007 08 11 Average number of teeth per child age 5 which were actively decayed. Most or had been extracted 2005/06 12 Under 16 conception rate 1,000 females (crude rate) 2005-2007 13 Modelled estimate from Health Survey for England 2005-2007 14 % of people on GP registers who recorded diagnosis of diabetes 2007 08 15 % who self-assessed general health as not good, obesity age and sex standardised 2007 16 Crude rate per 1,000 working age population 2007 17 Crude rate per 100,000 population 2005-2007 18 % of people on GP registers who recorded diagnosis of diabetes 2007 08 19 Crude rate per 100,000 population 2005-2007 20 Crude rate per 100,000 population 2005-2007 21 Crude rate per 100,000 population 2005-2007 22 Crude rate per 100,000 population 2005-2007 23 Crude rate per 100,000 population 2005-2007 24 Crude rate per 100,000 population 2005-2007 25 Crude rate per 100,000 population 2005-2007 26 Crude rate per 100,000 population 2005-2007 27 Crude rate per 100,000 population 2005-2007 28 Crude rate per 100,000 population 2005-2007 29 Crude rate per 100,000 population 2005-2007 30 Crude rate per 100,000 population 2005-2007 31 Crude rate per 100,000 population 2005-2007 32 Crude rate per 100,000 population 2005-2007

## Health Profile 2009 Stoke-on-Trent This is a Spearhead area

Health Profiles are produced annually by the Association of Public Health Observatories and funded by the Department of Health.

- Visit the Health Profiles website to
- View profiles for other areas
  - Use interactive maps
  - Access updated information
  - See more indicator data
- [www.healthprofiles.info](http://www.healthprofiles.info)



POPULATION 239,000  
 2007 population estimate  
 Source: National Statistics website [www.statistics.gov.uk](http://www.statistics.gov.uk)

Stoke-on-Trent at a glance

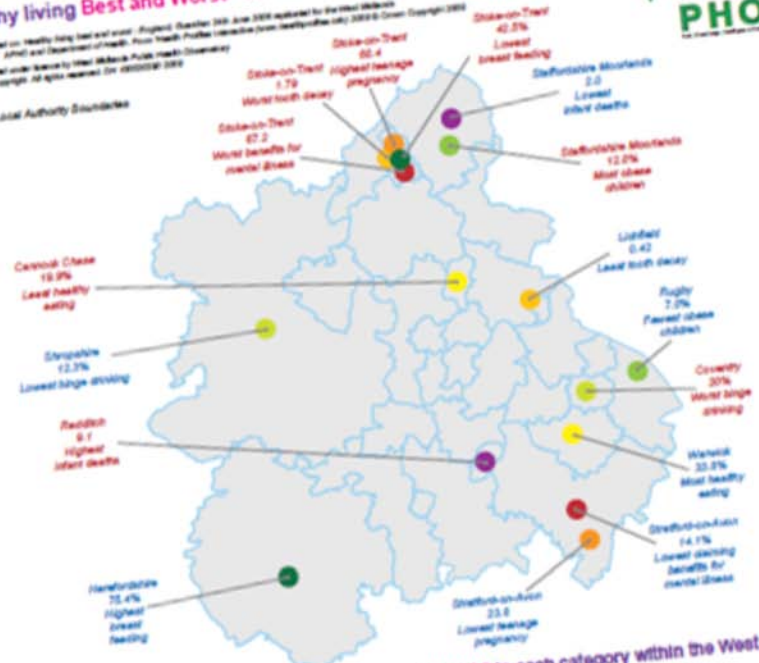
- The health of the people of Stoke-on-Trent is generally worse than the England average. This reflects the level of deprivation in Stoke-on-Trent, with over half of the population living in the most deprived fifth of areas in England. Road injuries and deaths and children's physical activity are the two indicators for which Stoke-on-Trent is better than the England average.
- Men from the least deprived areas can expect to live over 5 and a half years longer than those in the most deprived areas, whilst in women this difference is nearly 7 years.
- Although early death rates from heart disease & stroke remain above the England average, this gap is narrowing. Deaths from cancer remain above average.
- Children in poverty, teenage pregnancy and violent crime are all higher than the England average while GCSE achievement is lower.
- The estimated percentage of mothers and adults who smoke and deaths from smoking are above average.
- The estimated percentage of obese adults is high while the estimated percentages that eat healthy fruit and vegetables) and are adequately physically active is low.
- Priorities for Stoke-on-Trent are improving lifestyles, primary care and infant health. At a partnership level, education, economic and employment regeneration and alleviating poverty are also major priorities.
- Further information can be found in the Joint Strategic Needs Assessment and the report of the Director of Public Health for Stoke-on-Trent at [www.stoke.nhs.uk](http://www.stoke.nhs.uk)

## Healthy living Best and Worst - West Midlands

Compiled from Healthy Living Best and Worst - England Overview 2019 June 2020 published for the West Midlands  
 Data source: APHO and Department of Health. From Health Profiles interactive (www.healthprofiles.org) 2019 © Crown Copyright 2019  
 Map prepared under license from Ordnance Survey. Health Profiles  
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Local Authority Boundaries



- Regional analysis of APHO Health Profiles
  - Top 10 map
  - 3 “best” and 3 “worst”

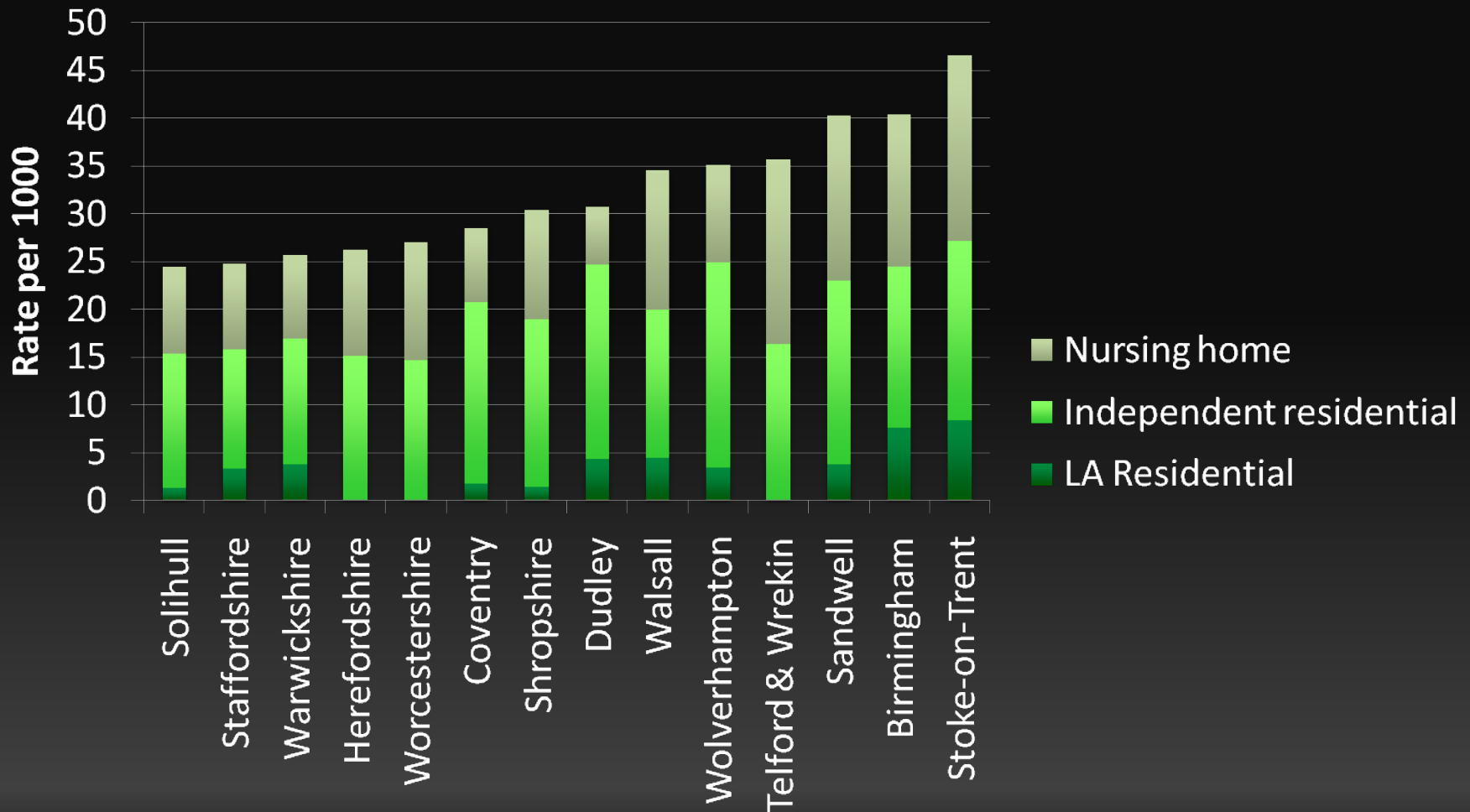
### Best 3 in each category within the West Midlands

- Breast feeding**  
% of mothers who breastfeed  
England best 80.2  
Staffordshire 75.4  
Shropshire 74.3  
Herefordshire 71.4%  
Staffordshire Moorlands 71.4%  
Highest breast feeding
- Obese children**  
% of population aged 15-17  
England best 9.8  
Rugby 7.9  
Warwick 7.5  
Staffordshire Moorlands 7.3
- Binge drinking adults**  
% drinking more than twice the recommended daily allowance  
England best 8.7  
Shropshire 12.3  
Warwick 16.9  
Staffordshire Moorlands 17.0
- Healthy eating**  
% eating five or more portions of fruit and veg a day  
England best 46.8  
Warwick 30.8  
Staffordshire Moorlands 30.0  
Malvern Hills 31.8
- Tooth decay**  
average number of decayed missing and filled teeth in five year olds  
England best 0.0  
Leicestershire 0.40  
Telford 0.46  
Bromsgrove 0.56
- Teenage pregnancy**  
rate per 1,000 women aged 15-17  
England best 15.0  
Staffordshire Moorlands 23.8  
Staffordshire Moorlands 23.8  
Malvern Hills 24.0  
Bromsgrove 24.2
- Benefits from mental illness**  
rate per 1,000 of working age population  
England best 6.7  
Staffordshire Moorlands 14.1  
South Staffordshire 15.0  
Wolverhampton 18.0
- Infant deaths**  
(less than one year)  
per 1,000 live births  
England best 1.3  
Staffordshire Moorlands 2.0  
Wolverhampton 2.0

### Worst 3 in each category within the West Midlands

- Breast feeding**  
% of mothers who breastfeed  
England worst 33.5  
Stoke-on-Trent 40.8  
Warwick 52.3  
Sandwell 52.5
- Obese children**  
% of population aged 15-17  
England worst 16.2  
Staffordshire Moorlands 12.8  
Wolverhampton 12.3  
Telford and Wrekin 11.8
- Binge drinking adults**  
% drinking more than twice the recommended daily allowance  
England worst 26.6  
Coventry 20.3  
Warwick 18.1  
Stoke-on-Trent 19.0
- Healthy eating**  
% eating five or more portions of fruit and veg a day  
England worst 15.8  
Cannock Chase 19.9  
Stoke-on-Trent 19.9  
Sandwell 20.3
- Tooth decay**  
average number of decayed missing and filled teeth in five year olds  
England worst 3.0  
Stoke-on-Trent 1.79  
Herefordshire 1.79  
Herefordshire-under-Lyme 1.57
- Teenage pregnancy**  
rate per 1,000 women aged 15-17  
England worst 79.1  
Stoke-on-Trent 86.4  
Wolverhampton 82.9  
Sandwell 80.9
- Benefits from mental illness**  
rate per 1,000 of working age population  
England worst 56.4  
Stoke-on-Trent 57.2  
Wolverhampton 56.8  
Birmingham 36.6
- Infant deaths**  
(less than one year)  
per 1,000 live births  
England worst 8.6  
Rushden & 1  
East Staffordshire 8.4

# Residential care rates age 65+ West Midlands 2007/08





# Quarterly Health Improvement Report

## 3.4 – Smoking During Pregnancy Stoke-on-Trent – Oct-Dec 08

### Alerts

Data:	
Trend:	
Target:	
WM Average:	▲

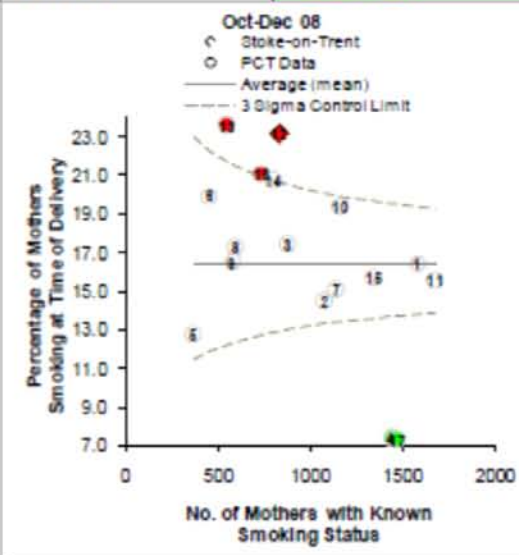
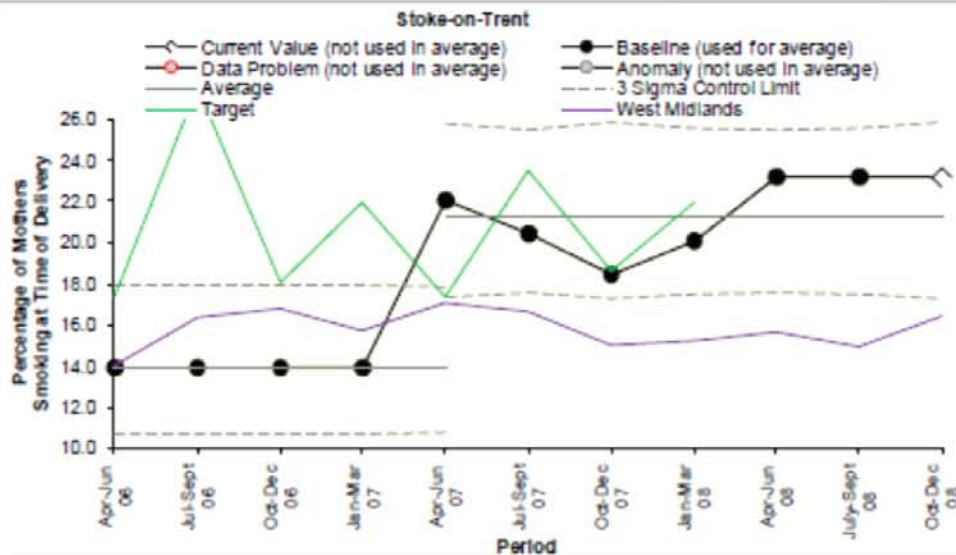
This indicator measures the number of mothers who smoke at the time of delivery as a proportion of mothers with known status. It is anticipated that the smoking status of 95% of new mothers will be established. There is a national target to reduce smoking during pregnancy rates by 1 percentage point per annum. Data Source: LDPR-C via Unify2 & HSCIC

- Stoke-on-Trents rate of smoking at time of delivery for Oct-Dec 08 was 23.1%.
- Current performance is not significantly different to the latest baseline average (i.e. within the control limits for trend).
- Current performance is significantly higher than the West Midlands average (i.e. above the funnel upper control limit).
- Of the 17 PCTs, 3 were worse than and 2 were better than expected from the West Midlands average.

### Funnel Key:

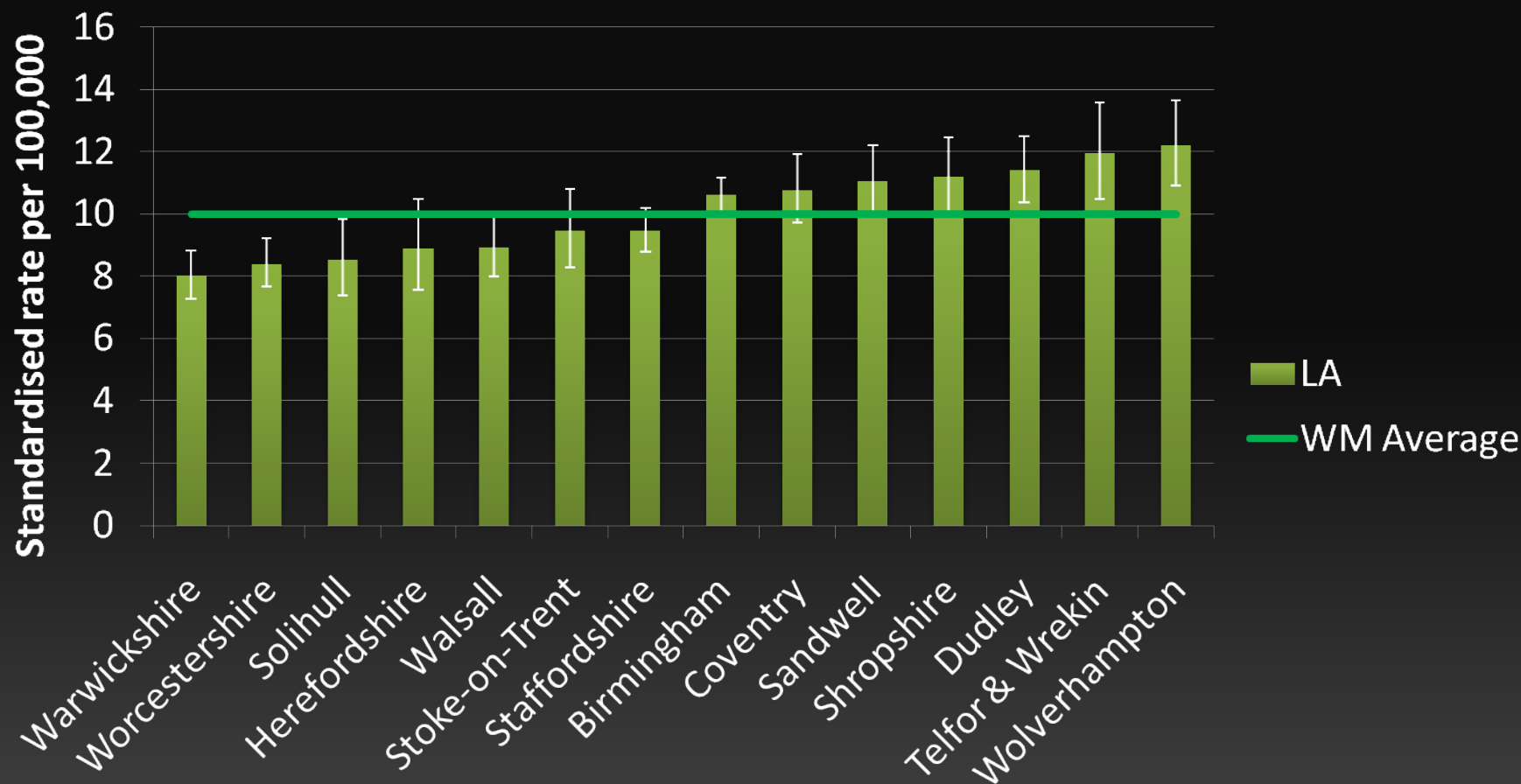
- Birmingham East & North
- Coventry
- Dudley
- Heart of Birmingham
- Herefordshire
- North Staffordshire
- Sandwell
- Shropshire

- Southall
- South Birmingham
- South Staffordshire
- Stoke-on-Trent
- Telford & Wrekin
- Walsall
- Warwickshire
- Wolverhampton
- Worcestershire



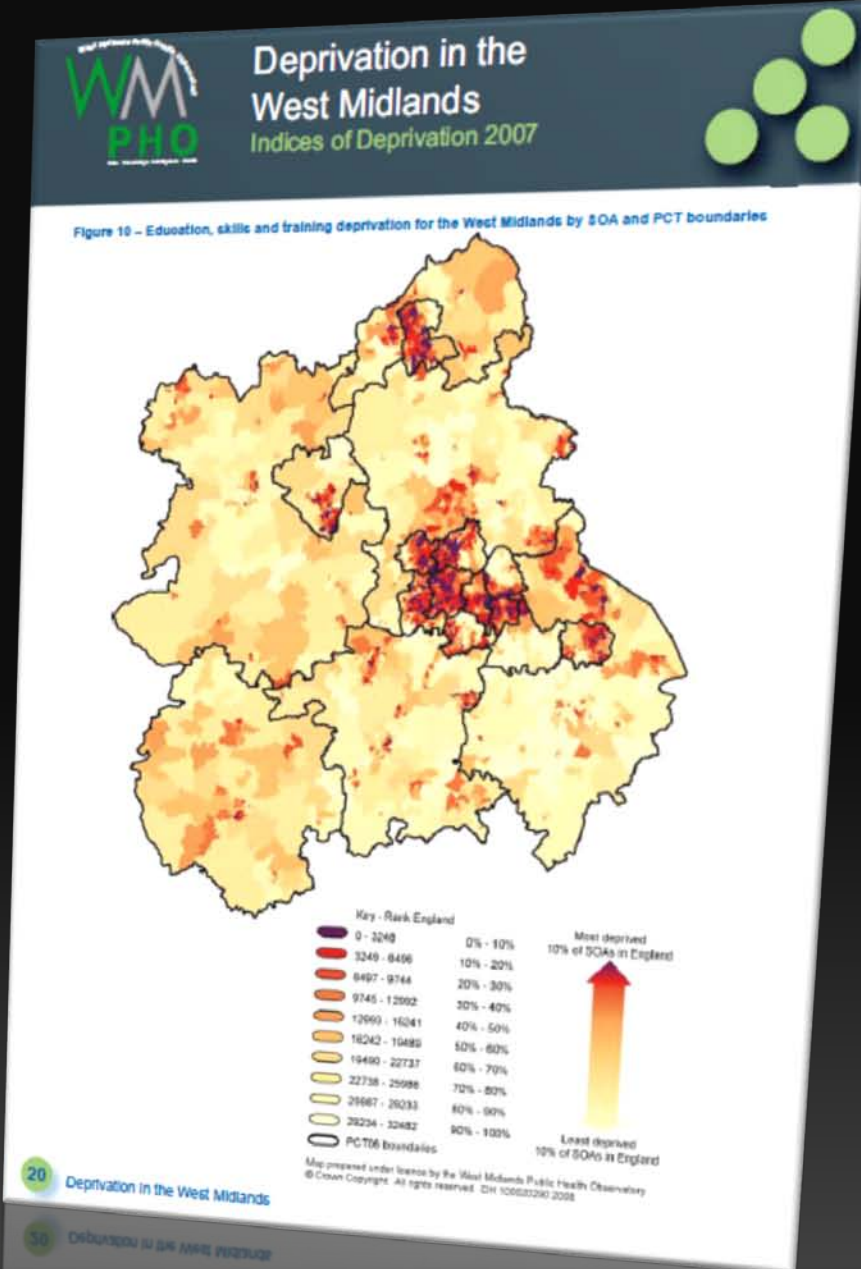


# NI 55 % At risk of Obesity Reception West Midlands 2007/08

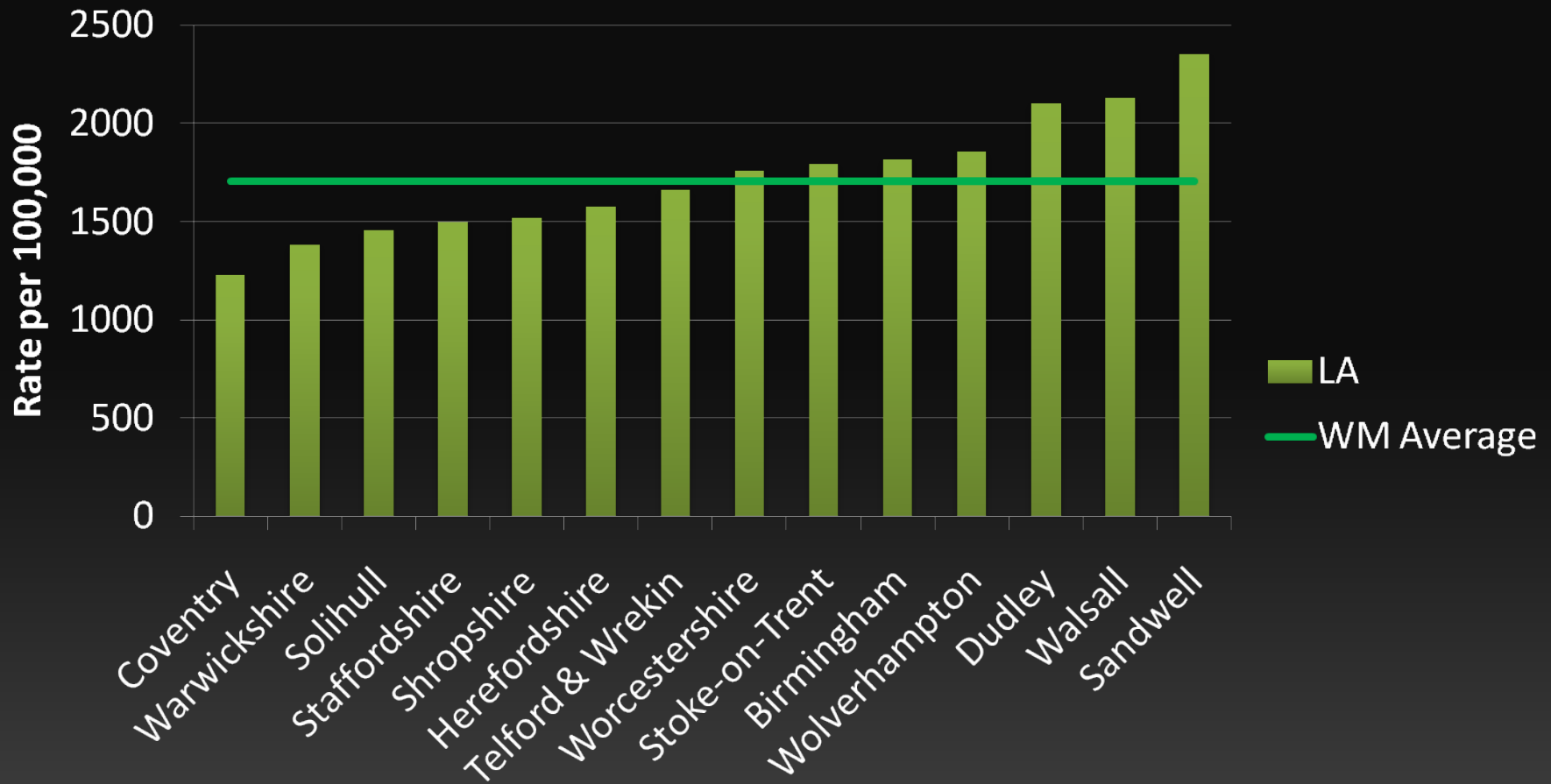


# Regional Reports

- Deprivation in the West Midlands
- Infant and Early Childhood Health and Well-Being
- Health Inequalities: Life expectancy in the West Midlands
- Stop Smoking Services: Regional Equity Profile
- Coming Soon:
  - Excess Winter Deaths
  - Adult Social Care



# Alcohol harm related admission rate West Midlands 2007/08





## West Midlands Public Health Observatory

[Data](#) | [Knowledge](#) | [Intelligence](#) | [Health](#)

Lead Areas: Older People, Environment, Social Care

[PH Talk](#)

[WMeHNet](#)

[NDTMS](#)

[Information Requests](#)

[Publications](#)

[Tools](#)

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[News and Events](#)

[Topics](#)

[Local Profiles](#)

[Health Improvement](#)

[Learning](#)

[Partners](#)

[Links](#)

### Welcome to WMPHO

Welcome to the redesigned West Midlands Public Health Observatory website. We hope you will find the new version to your liking, suited to your needs and helpful for Joint Strategic Needs Assessment (JSNA).

We are still adding material to the new website but would welcome feedback and any suggestions for further material or functionality that you think would make it more useful.

### News

#### [Building a Society for All Ages - strategy published](#)

As a country we are living through an enormous demographic change. This has... [\[more\]](#)

#### [WMPHO Spine Chart Tool](#)

This is an Excel 2007 tool WMPHO have produced to create spine charts as... [\[more\]](#)

### Events

#### [Key Health Data Launch 2009](#)

**10:00-14:30, Monday, 7 September 2009**

The Public Health, Epidemiology and Biostatistics Unit at the University of... [\[more\]](#)

#### [Key Health Data Launch 2009](#)

**10:00-14:30, Tuesday, 8 September 2009**

The Public Health, Epidemiology and Biostatistics Unit at the University of... [\[more\]](#)  
10:00-14:30, Tuesday, 8 September 2009

# Local Profile Data



## West Midlands Public Health Observatory

Data | Knowledge | Intelligence | Health

Lead Areas: Older People, Environment, Social Care

PH Talk | WMeHNet | NDMS | Information Requests | Publications | Tools | Search | HIA Gateway

[Home](#) > [Local Profiles](#) > [Lifestyle](#) > Teenage Pregnancy

- Home
- Local Profiles
- Populations
  - Age and Gender
  - Ethnicity
  - Households
  - Projections
  - IMD 2007
  - Car Ownership
- Deaths
  - Deaths
  - Infant Mortality
  - Life Expectancy
  - Healthy Life Expectancy
- Hospital Admissions
  - Admissions (Adult)

### Teenage Pregnancy Rates

Geography Type:

Geography:

Time Period:

[View Metadata](#)

There are 2 results tables:

- Results by all years for selected geography
- Results by all geographies for selected year

Scroll down to see lower tables.

#### Results by All Years for selected Local Authority

Geography Name	Geography Code	Year	Number	Rate	% Leading to Abortion
Birmingham	00CN	2007	1,119	52.8	51
Birmingham	00CN	2006	1,148	53.2	49
Birmingham	00CN	2005	1,148	23.5	48
Birmingham	00CN	2004	1,116	25.8	21

# Analytical Tools



## West Midlands Public Health Observatory

[Data](#) | [Knowledge](#) | [Intelligence](#) | [Health](#)

Local Areas: [Older People](#), [Expenditure](#), [Social Care](#)

[Partners](#) | [WPHO Help](#) | [AOPMS](#) | [Information Resources](#) | [Publications](#) | [Tools](#) | [Search](#) | [RIA Gateway](#)

[Home](#) > [Tools](#)

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## Tools

Providing support to other public health professionals is an important part of our role as the regional public health observatory. In addition to other assistance, we aim to disseminate good practice in methods for analysing health data.

Below is a list of health data analysis tools developed by our analysts as well as links to other organisations and their tools. We hope you will find them useful.

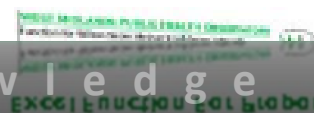
### Spine Chart Creator

[WMPHO Spine Chart Creator](#)



This is an Excel 2007 tool WMPHO have produced to create spine charts as used in the [WPHO Health Profiles](#). These charts are used to present area-based data, either as profiles of an area or comparatively across areas, to clearly show statistical significance of variations. A version that is compatible with [Excel 97-2013](#) is also available.

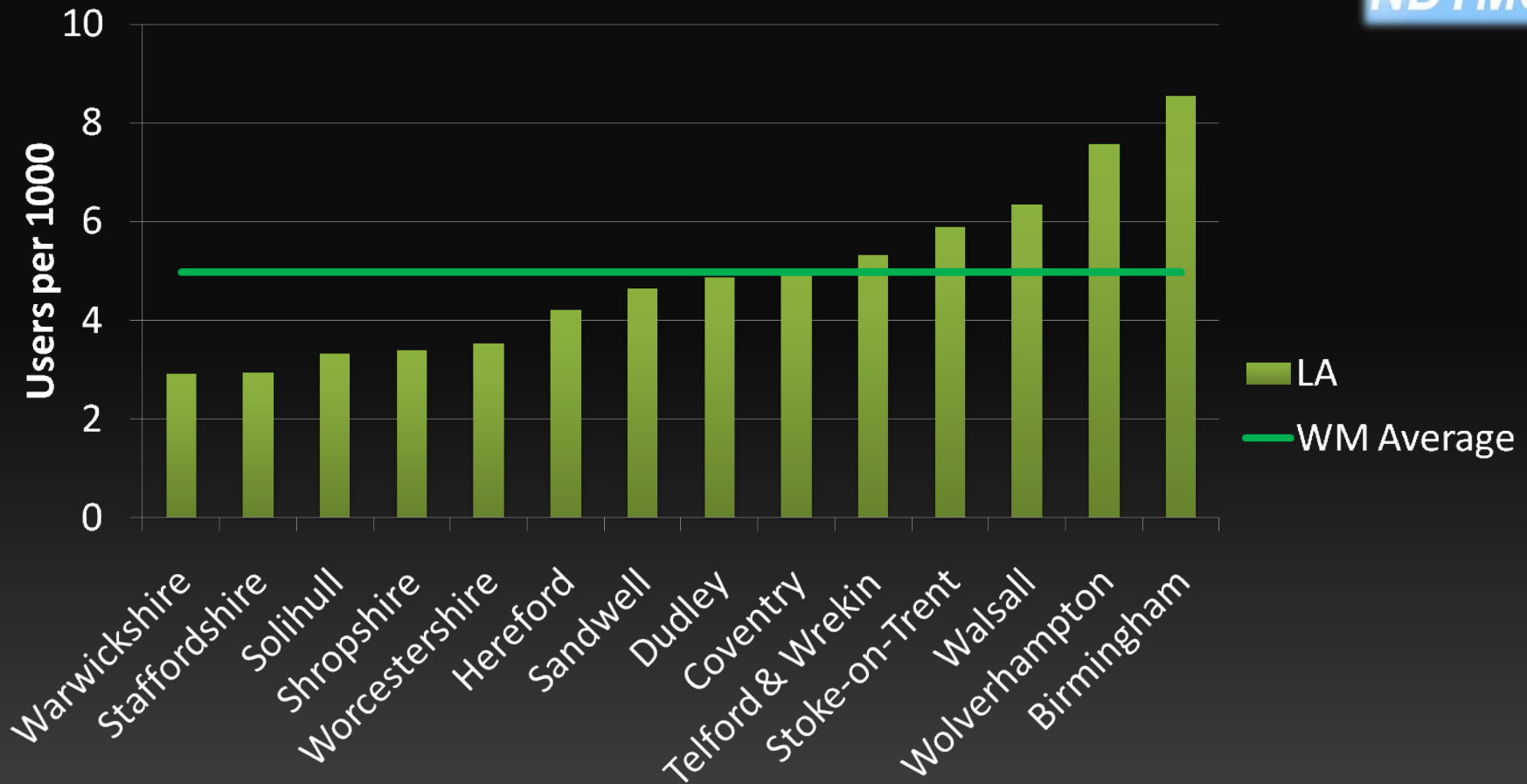
### Excel Function For Proportions and Percentages Confidence Intervals



The WMPHO have written Excel Function Add-Ins to calculate Wilson Score



# Drug users in Effective Treatment per 1000 population 2007-2008



# What is special about WMPHO?



- Heart of public health policy and practice, and our commitment to genuine partnership working
- Point of access to APHO expertise of over 150 public health intelligence professionals across all the PHOs.
- We help policy-makers, practitioners, commissioners and researchers to retrieve and commission the information they need.
- Our websites offer users a regular stream of products and tools.
- We champion our customers right to the best data and intelligence
- We learn and we improve

## Contact Details

[Stacey.Croft@wmpHO.org.uk](mailto:Stacey.Croft@wmpHO.org.uk)

Website:

[www.wmpHO.org.uk](http://www.wmpHO.org.uk)

Joining WMeHNet

<http://www.wmpHO.org.uk/wmehnet/>