Welcome

PHE data week 9-13 November was dedicated to the importance of data and intelligence and why it matters. A range of topics were introduced via Twitter (@PHE_UK) and a series of blogs (see page 3). The Local Update is a means of disseminating information about the latest data and intelligence for Public Health colleagues in the South West. This issue introduces a new feature for our monthly update: an infographic which presents a selection of data for South West based on latest releases (see page 2).

South West intelligence update

SWINPHO

The South West Intelligence Network meeting takes place three times a year. The latest held end of October brought together Public Health analysts from around the South West. The day focussed on PHE data tools & profiles presented by: Don Sinclair, Associate Director for LKIS South East, who has been instrumental in setting up Health Profiles and Local Health; and Wendi Slater, the lead analyst for PHE’s Sexual & Reproductive Health Profiles. John Battersby, Training and Workforce Development Lead for PHE, presented an update on intelligence training and PHE’s workforce strategy. If you would like to attend the meetings or join the email group, please contact stuart.harris@phe.gov.uk.

AGW (Avon, Gloucestershire & Wiltshire) public health intelligence training day

AGW Public Health Network CPD (continued professional development) event, organised by South Gloucestershire Public Health team, offered a diverse and engaging programme for public health professionals to learn about data & intelligence. The programme was developed in collaboration with PHE LKIS (Local Knowledge and Intelligence Service). The topics ranged from access to public health intelligence data, information governance and knowledge transfer to data visualisation, infographics and GIS (Geographical Information Systems). Materials from the event held 11 November are available online.

South West LKIS (Local Knowledge and Intelligence Service) webinar series

During November the SW webinar series introduced data tools to explore two important topics, diabetes and liver disease. Closely related to liver disease, a webinar on ‘the impact of alcohol in local communities’ will take place Tuesday 8 December, with many more to come in the New Year. For details and how to book see our webinar flyer. The presentations from earlier webinars are also available online.
Infographic: Mortality in the South West

The infographic page is a new feature in the Local Update. In this issue we present an infographic that shows a selection of mortality figures covering deaths between 2012-14 for the South West, based on the latest PHOF (Public Health Outcome Framework) update in November. For more information about the indicators, definitions and to access data for your local authority area go to www.phoutcomes.info.

**Preventable mortality in the South West**
Per 100 000 population 2012-14

- Overall preventable mortality continues to go down

207.6 per 100 000 population in the South West 2012-14 (279.8 in 2001-3)

122.3 per 100 000 population in 2012-14 in the South West (156.1 in 2001-3)

**Premature mortality by underlying cause**
Under 75 mortality rate per 100 000 population 2012-14, South West and England

- Cancer
  - South West (male): 146.0
  - South West (female): 116.0
  - England: 157.7

- All CVD
  - South West (male): 93.2
  - South West (female): 38.9
  - England: 106.2

- Respiratory
  - South West (male): 31.5
  - South West (female): 21.7
  - England: 38.3

- Liver disease
  - South West (male): 19.7
  - South West (female): 9.5
  - England: 23.4

- Suicide
  - South West (male): 15.2
  - South West (female): 5.3
  - England: 14.1

*Source: PHOF, 2015 November. Public Health England (based on ONS source data). Infographic produced by South West LKIS Knowledge Transfer team*
Recent PHE intelligence updates

#PHE data week

The week of 9-13 November was dedicated to PHE’s work and knowledge in the field of data via Twitter (@PHE_UK) and a series of blogs. Data is a core part of PHE’s function and the week highlighted data in action. Be it identifying routes to cancer diagnosis, or improving quality of care and outcomes for cardiovascular disease - data matters. Immunisation in numbers blog stressed the impact of vaccination programmes. For example, flu vaccine pilot areas have seen a 93% reduction in hospital admissions due to confirmed influenza cases in primary school children. Big data was a key theme of the week. Not just a buzzword, big data presents an opportunity to utilise the vast amount of data we now generate through apps, wearables, remote sensing and transactions to tailor prevention and healthcare. The emergence of data science, a discipline that brings statistics and computer science closer together, has been vital to cope with the enormity and complexity of big data. The week also promoted the Fingertips, PHE’s online platform that is becoming increasingly popular with usage levels rising. It now hosts over 1500 indicators, arranged in 30 profiles, with 9 geographical break downs. For more topics covered during the data week see PHE’s Public Health Matters data blog.

Routes to cancer diagnosis

The full and final Routes to Diagnosis data for every cancer site from 2006 to 2013 was published during the PHE data week. This innovative big data project has helped to reduce late diagnosis and emergency admissions. Using multiple routine datasets looking at 56 different cancer sites, the results show a fall in emergency admissions, from 25% of cancers in 2006 to 20% in 2013. This is against a rise in the overall cases of cancer. Outputs available for the 2006-2013 iteration include routes to diagnosis workbook in excel format and a preliminary short report.

Sugar Reduction—The evidence for action

PHE has published its evidence review on sugar reduction along with a range measures to curb down excessive consumption. Currently children consume 3 times the recommended levels. The authors estimate that if sugar intake dropped to recommended levels within 10 years, over 4,000 early deaths and over 200,000 cases of tooth decay would be avoided and the burden of diseases associated with obesity such as diabetes would be reduced, saving the NHS around £480 million every year.
PHE intelligence updates in brief

- **Public Health Outcomes Framework (PHOF)** was updated in November. 20 indicators now include the latest data not previously in the public domain, indicators such as air pollution (2013) and various mortality indicators (2012-14). Indicators relating to diet have been corrected and excess weight in adults have been revised to be based on 3 years of data (2012-2014). The recently published ONS Area Classifications (based on the 2011 Census) have also been included. A new indicator for bowel cancer screening coverage has been added to PHOF. Screening coverage is higher in the South West than the England average: 60.3% v 57.1% of people aged 60–74 resident in the area.

- **Inequalities in life expectancy and healthy life expectancy 2009-13**: A new ONS report produced in conjunction with PHE has been published to assess the scale of inequalities in life expectancy and healthy life expectancy across England, and within local authorities. First analysis of its kind, this will aid health professionals to assess, down to small geographies, where to focus resources. South West has the narrowest gap in healthy life expectancy compared to other regions, for both males and females. The slope index of inequality (SII) shows that at regional level, compared with the most deprived areas in the South West, healthy life expectancy for those living in the most affluent areas were higher by 12.0 years for males and 10.9 years for females (England, 16.7 and 16.8 respectively).

- **HIV New Diagnoses, Treatment and Care in the UK** highlights that the number of people living with diagnosed HIV in the UK continues to rise. This reflects the longer life expectancy due to effective antiretroviral therapy (ART), ongoing HIV transmission and steady numbers of new diagnoses.

- **Shooting up report on injecting drug users** 2015 describes the extent of infections among people who injected drugs in the United Kingdom in 2014. The report out this month found that almost half of injecting drug users (48%) were unaware of having hepatitis C. Prevalence of HIV among this group remain low (1%). Sharing and reusing needles and syringes in England has fallen from 28% in 2004 to 16% in 2014.

- **Sexual and Reproductive Health Profiles** were updated early November. Additions to the tool include new HIV diagnosis rates 2011 to 2014 and GP prescribed LARC excluding injections 2011 to 2014. GP prescribed LARC was updated and revised for years 2011 to 2014. A district level data is also now available. Sexual offences rate were updated to 2014/15.
Other updates in brief

- **ONS National population projections 2014** were released end of October. The UK population is projected to increase by 9.7 million over the next 25 years. The median age of the population is projected to rise from 40.0 years to 42.9 by mid-2039, with more than 1 in 12 of the population to be aged 80 or over.

- **Mid year population estimates 2014** at national, regional and local authority level are also available from ONS. The data release provides a breakdown by age and gender. **Small area population estimates** for 2013 and 2014 are out 25 November.

- **Childbearing for women born in different years** estimates in England and Wales have been updated with 2014 births by ONS. The average completed family size is 1.91 children per woman, compared to their mothers’ generation who had 2.29 children on average. These figures present statistics by the year of birth of mother rather than by the year of birth of child. **NHS Maternity statistics 2014-15** for England are also released 25 Nov by HSCIC.


- **Psychological Therapies, Annual report on the use of IAPT services - England - 2014/15** was released 24 November by HSCIC.

South West Events

**South West Scientific Conference**

**South West Scientific Conference** will be held in Bristol 16 March 2016. Registrations are not yet open but abstracts can be submitted for consideration by the abstract committee with the closing date by Monday 30 November 2016.

**HES (Hospital Episode Statistics) training**

Preparation is nearing completion for the HES training, as part of the forthcoming release of HES Data Extracts to local authorities. Principally intended to help local analysts understand the structure of HES, and how to use that information to meaningfully interrogate the three HES databases, the training will be provided by Roy Maxwell, and a colleague from the West Midlands, George Fowajuh. More details are to follow, but if you have any questions in the meantime please email roy.maxwell@phe.gov.uk.
South West Events cont.

Applied Epidemiology Scientific Conference 2016

Public Health England’s Applied Epidemiology Scientific Conference 2016 conference will be held on 22 – 23 March 2016. The event website is now open to book your place and abstract submissions for oral or poster presentation are invited in a range of categories. The deadline for submissions via the conference website is midnight on Friday 11 December 2015.

The conference will take place at Warwick University and will support high quality and innovative applied scientific activity through the sharing of good practice including the work of the National Institute for Health Research (NIHR) Health Protection Research Units.

The conference will be a mix of plenary sessions, posters and parallel sessions. Key speakers will include Susan Michie, who will talk on a behavioural change and David Heymann who will talk on global health, rapid response teams and ebola lessons.

Trainees and early career scientists are most welcome. There will be opportunities to present, share and discuss work and prizes will be awarded in five categories for the best abstracts.

We hope you will be able to participate in the event and suggest you book your place as soon as possible. To see full details about how to submit an abstract, registration fees and to book your place, please visit the conference website.

Local Knowledge and Intelligence Service (South West) workshops

LKIS offers workshops on different PHE data tools on request. These bespoke workshops are available to all Public Health teams across South West and tailored to local priorities, from mental health, early years to health behaviours and specific chronic conditions. To discuss and arrange please contact nicola.bowtell@phe.gov.uk or mia.moilanen@phe.gov.uk.

Suggestions for news items, updates, infographics or events to be included in future issues please email SouthWestKIT@phe.gov.uk.