



Volume 9 Numbers 24 Published on: 10 July 2015

Current News

- ▶ **Infections among people who inject drugs in 2014**
- ▶ **Ebola virus disease: international epidemiological summary (at 5 July 2015)**

Infection Reports

HIV-STIs

- ▶ **Unlinked anonymous HIV and viral hepatitis monitoring among PWID: 2015 report**

Enteric

- ▶ **General outbreak of foodborne illness in humans, England and Wales: weeks 23-26/2015**
- ▶ **Common gastrointestinal infections, England and Wales: laboratory reports, weeks 23-26/2015**
- ▶ **Less common gastrointestinal infections, England and Wales: laboratory reports, weeks 14-26/2015**
- ▶ **Salmonella infections (faecal specimens) England and Wales, reports to Public Health England (salmonella data set): May 2015**
- ▶ **Suspected and laboratory-confirmed reported norovirus outbreaks in hospitals, with regional breakdown: outbreaks occurring in weeks 23-26/15.**

News

Volume 9 Number 24 Published on: 10 July 2015

Infections among people who inject drugs in 2014

Updated data tables for the Unlinked Anonymous Monitoring Survey of People Who Inject Drugs have been published by PHE [1] and a full commentary article on the data is included in the infection reports section of this issue of *Health Protection Report* [2].

The UAM-PWID survey measures the prevalence of antibodies to HIV, hepatitis C and hepatitis B – as well as levels of risk and protective behaviour – in the PWID population. The survey covers England, Wales and Northern Ireland, and data is presented at country level and for the English regions.

Overall, the data from the survey show that infections remain a problem among people who inject drugs. The data indicate that, in 2014, 1.0% of people who inject psychoactive drugs were living with HIV, and that 49% had antibodies to hepatitis C. The survey also found that 14% had ever been infected with hepatitis B (that is, had antibodies to the hepatitis B core antigen) and 0.58% had current hepatitis B infection (HBsAg). Overall, 17% of those currently injecting had shared needles and syringes during preceding the 28 days, and injecting drugs into higher risk sites on the body, such as the groin and hands, was also common. Although uptake of diagnostic testing for HIV and hepatitis C – and of the hepatitis B vaccine – are all high, the uptake of these interventions has not increased in recent years.

The *HPR* commentary concludes that interventions which aim to prevent infection through injecting drug use, including needle and syringe programmes [2] and opiate substitution therapy [3], need to be sustained.

References

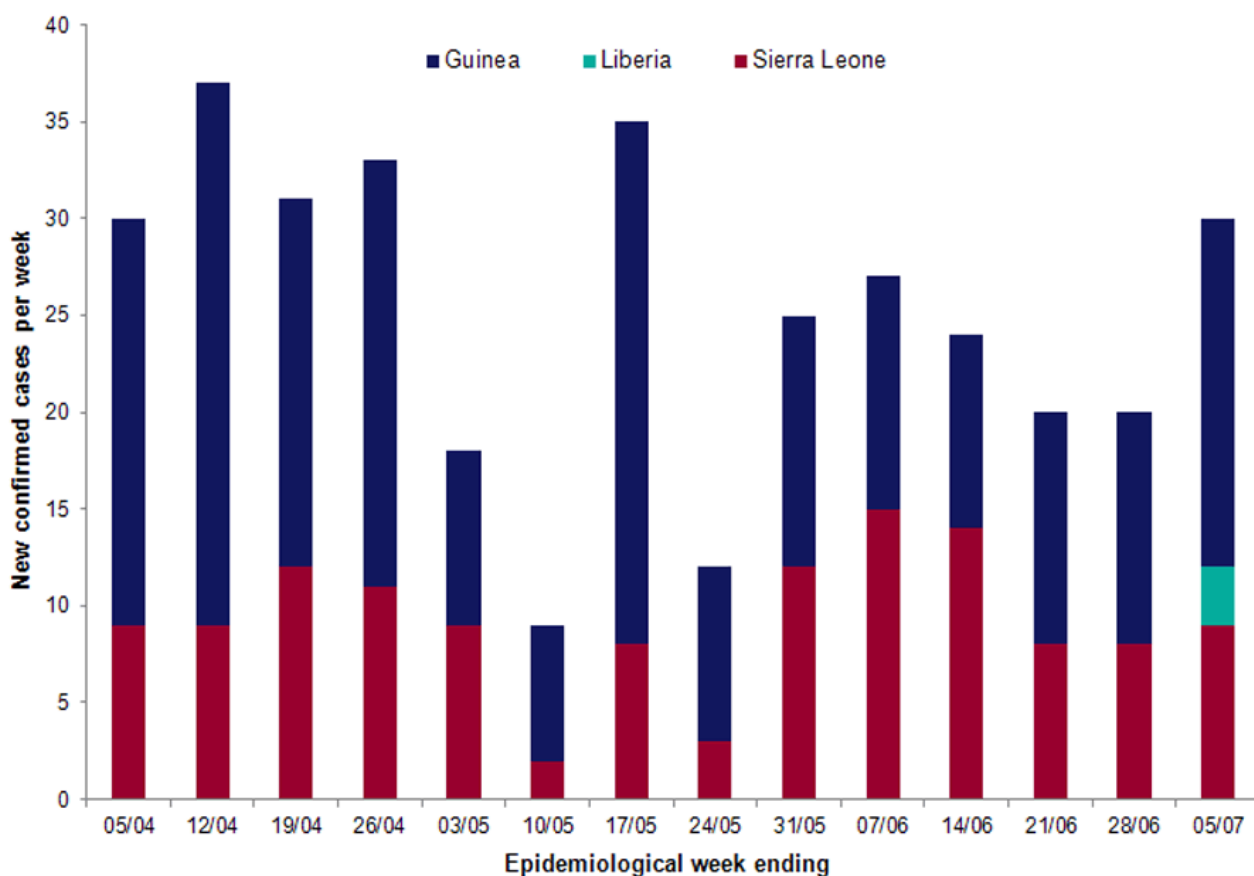
1. [PHE statistics webpages](#) (July 2015). Data tables of the Unlinked Anonymous Monitoring Survey of People Who Inject Drugs (psychoactive).
 2. [Unlinked anonymous HIV and viral hepatitis monitoring among PWID: 2015 report](#), *HPR* 9(24): HIV-STIs.
 3. NICE (April 2004). [Needle and syringe programmes: providing people who inject drugs with injecting equipment](#), Public Health Guidance, PH52.
 4. DH (England and devolved administrations (2007). [Drug misuse and dependence – guidelines on clinical management: update 2007](#).
-

Ebola virus disease: international epidemiological summary (as at 5 July)

The Ebola Virus Disease (EVD) outbreak in West Africa continues with between 10 and 30 cases reported each week from currently affected areas. As of 5 July 2015, a total of 27,609 clinically compatible cases of EVD and 11,261 deaths have been reported associated with the West African outbreak.

In the week prior to 5 July, a total of 30 confirmed cases of EVD were reported, 18 in Guinea, three in Liberia and eight in Sierra Leone, an increase from 20 confirmed cases in the previous week (see figure below). The geographical distribution of cases in Guinea and Sierra Leone has stabilised in recent weeks but individuals evading quarantine continue to present a risk of seeding further outbreaks.

Figure 1. Number of new confirmed cases reported per week (5 April to 5 July 2015) in affected countries in West Africa



On 9 May 2015, the outbreak of EVD in Liberia, which began in March 2014, was declared over. However, the first case in Liberia since 20 March 2015 was reported at the end of June; as of 5 July, this localised outbreak in Margibi county has resulted in three confirmed cases and one probable case (see table and map below). This new outbreak is currently being treated as a separate incident from the main outbreak. The source of infection for this cluster of cases remains unknown and investigations continue. A lack of community engagement with EVD control measures continues to hamper tracing and monitoring of contacts and thus cessation of transmission chains.

More detailed information is available in PHE's full weekly [Ebola Epidemiological Update](#). A graphical indication of currently affected areas (in Guinea, Liberia and Sierra Leone) is presented in the [Ebola Outbreak Distribution Map](#) below.

Countries currently or previously affected by EVD as at 5 July 2015

Country	Total CCCs [‡]	Total CCs	Total deaths	New CCCs [‡] reported in preceding week [*]	New confirmed cases in preceding week [*]	Current status (Date declared EVD free)	
Guinea	3,748	3,287	2,499	19	18	Active transmission	
Liberia	Outbreak 1	10,666	3,151	4,806	0	0	Declared over 9 May 2015 ^{**}
	Outbreak 2	4	3	1	4	3	Localised transmission ^{**}
Sierra Leone	13,155	8,674	3,940	36	9	Active transmission	
Italy	1	1	0	0	0	Awaiting EVD clearance	
UK	1	1	0	0	–	EVD free (7 March 2015)	
Nigeria	20	19	8	0	–	EVD free (19 Oct 2014)	
Senegal	1	1	0	0	–	EVD free (17 Oct 2014)	
Spain	1	1	0	0	–	EVD free (2 Dec 2014)	
Mali	8	7	6	0	–	EVD free (18 Jan 2015)	
USA	4	4	1	0	–	Considered EVD free [^] (23 Oct 2014 [^])	
TOTAL	27,609	15,189	11,261	59	30	–	

Data sources: WHO Ebola Situation Report 8 July 2015 (data to 5 July) and statement from Ministry of Health Italy on imported Italian case, 10 June 2015.

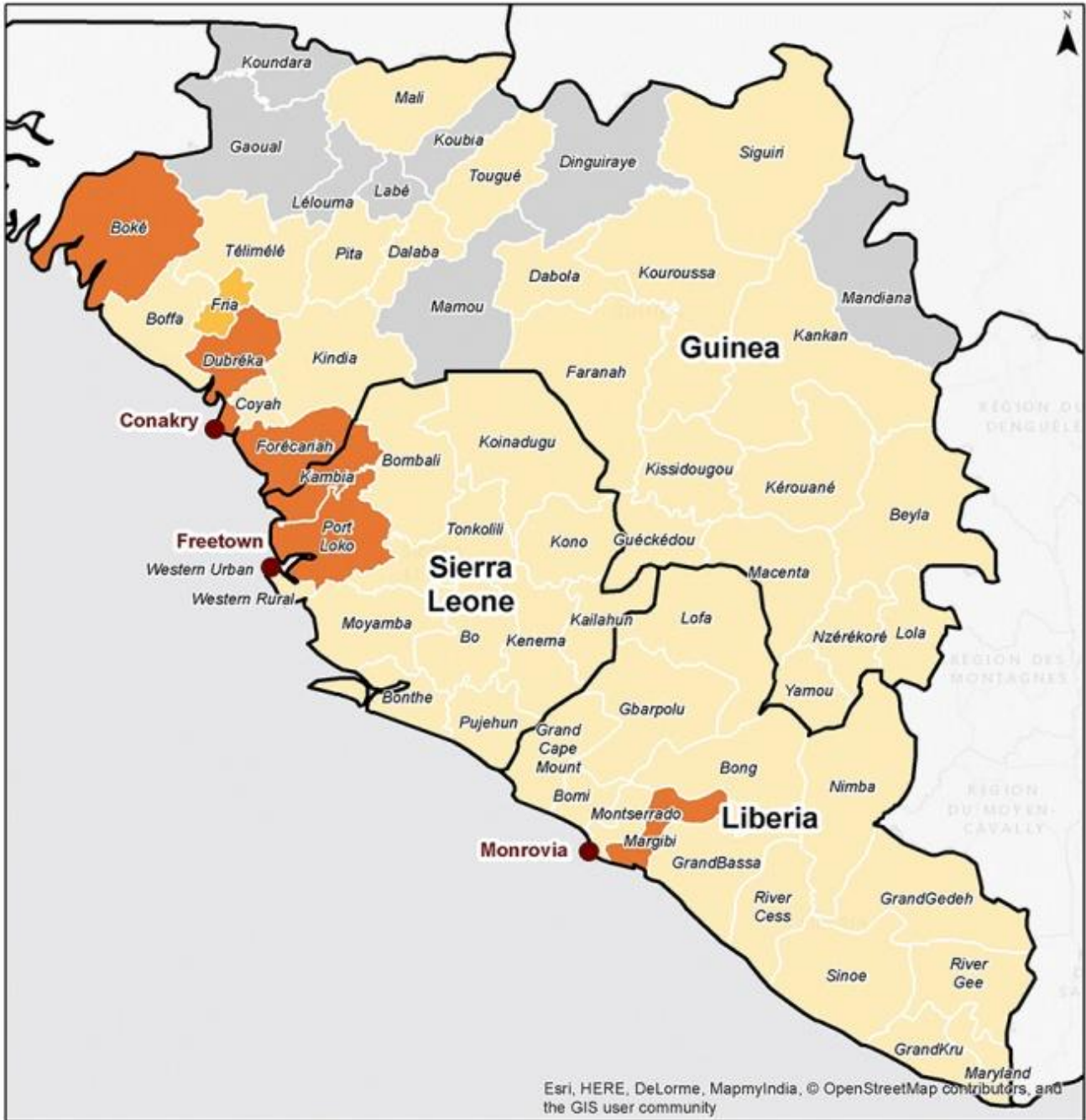
[‡] Clinically compatible cases (CCC) represents a combination of suspected, probable and confirmed cases. CCC totals are under constant revision and reclassification as suspect cases are confirmed or discounted.








^{*} The reporting period is one week: 28 June to 5 July (WHO latest Ebola situation report 8 July 2015).

^{**} Liberia was declared EVD free on 9 May, 2015, following 42 days without a case with the country entering a three-month period of enhanced surveillance. On 29 June, routine surveillance confirmed a new case in Margibi County, with two further cases reported in contacts in the following days. The origin of infection is currently under investigation.

[^] More than 42 days have passed since last case tested negative.

Ebola Outbreak Distribution Map



	Capital Cities	Confirmed cases by district
	Country Boundaries	 Active transmission
WHO data as of 5 July (Source: WHO)		 No active transmission for more than 21 days
		 No active transmission for more than 42 days
		 Unaffected
		 Declared free of Ebola transmission on 9 May 2015

Map Created: 10/07/2015



Volume 9 Number 24 Published on: 10 July 2015

Infection Reports

HIV/STIs

- ▶ **Unlinked anonymous HIV and viral hepatitis monitoring among PWID: 2015 report**

Enteric

- ▶ **General outbreak of foodborne illness in humans, England and Wales: weeks 23-26/2015**
- ▶ **Common gastrointestinal infections, England and Wales: laboratory reports, weeks 23-26/2015**
- ▶ **Less common gastrointestinal infections, England and Wales: laboratory reports, weeks 14-26/2015**
- ▶ **Salmonella infections (faecal specimens) England and Wales, reports to Public Health England (salmonella data set): May 2015**
- ▶ **Suspected and laboratory-confirmed reported norovirus outbreaks in hospitals, with regional breakdown: outbreaks occurring in weeks 23-26/2015.**

Unlinked anonymous HIV and viral hepatitis monitoring among PWID: 2015 report

New data from the ongoing Unlinked Anonymous Monitoring (UAM) Survey of HIV and Viral Hepatitis among People Who Inject Drugs (PWID) have been published on the PHE website; the updated set of tables present data from the survey for the period 2004 to 2014 inclusive [1]. These data are from the main UAM Survey, which is targeted at people who inject psychoactive drugs, such as, heroin, crack cocaine and amphetamines. Data from the main survey for 1990 to 2003, and data from the biennial sub-surveys of people who inject image and performance enhancing drugs, such as, anabolic steroids and melanotan, can be found in previous years' data tables [1,2].

This article presents an overview of the trends between 2004 and 2014 for HIV, hepatitis B, hepatitis C and risk behaviours from people who inject psychoactive drugs participating in the main UAM Survey. In addition to data for the whole of England, Wales and Northern Ireland (the areas covered by this survey), the tables include data for each country separately and the regions of England. Further data from this survey related to hepatitis C will appear in the Hepatitis C in the UK: 2015 report [3] to be published later this month.

HIV transmission in PWID

The prevalence of HIV among the 3,091 PWID who took part in the main UAM Survey across England, Wales and Northern Ireland in 2014 was 1.0% (95% CI, 0.07%-1.4%). Between 2004 and 2013, prevalence varied between 1.1% and 1.6% (see figure 1; and table 1 of the dataset). In 2014 the HIV prevalence was 1.1% (95% CI, 0.22%-3.4%; table 24 of the dataset) in Wales and 0.65% (95% CI, 0.01%-3.9%; table 25 of the dataset) in Northern Ireland. In England, the HIV prevalence was 1.0% (95% CI, 0.69%-1.5%) in 2014, not significantly different from 2004 when the prevalence was 1.4% (95% CI, 1.0%-2.0%; see table 11 of the dataset; and statistical note a).

The HIV prevalence among "recent initiates" to injecting drug use (i.e. those who first injected during the preceding three years) is an indicator of recent transmission. The prevalence of HIV among the recent initiates surveyed in England, Wales and Northern Ireland varied over time and ranged from 0.37% to 1.3% between 2004 and 2014. In 2014, the prevalence in this group was 0.41% (95% CI, 0.01%-2.5%; see figure 1; table 26 of the dataset; and statistical note b)

and is similar to that found in previous years. This indicates that HIV transmission is continuing to occur among PWID at a low level.

Self-reported uptake of voluntary confidential testing (VCT) for HIV has increased significantly since 2004; rising from 63% (95% CI, 61%-65%) in 2004 to 77% (95% CI, 75%-78%) in 2014 (see figure 1; table 7 of the dataset; and statistical note c). The proportion of participants with antibodies to HIV and reporting that they were aware of their HIV infection was 85% (95% CI, 66%-94%) in 2014 (see table 7 of the dataset).

Hepatitis B transmission among PWID

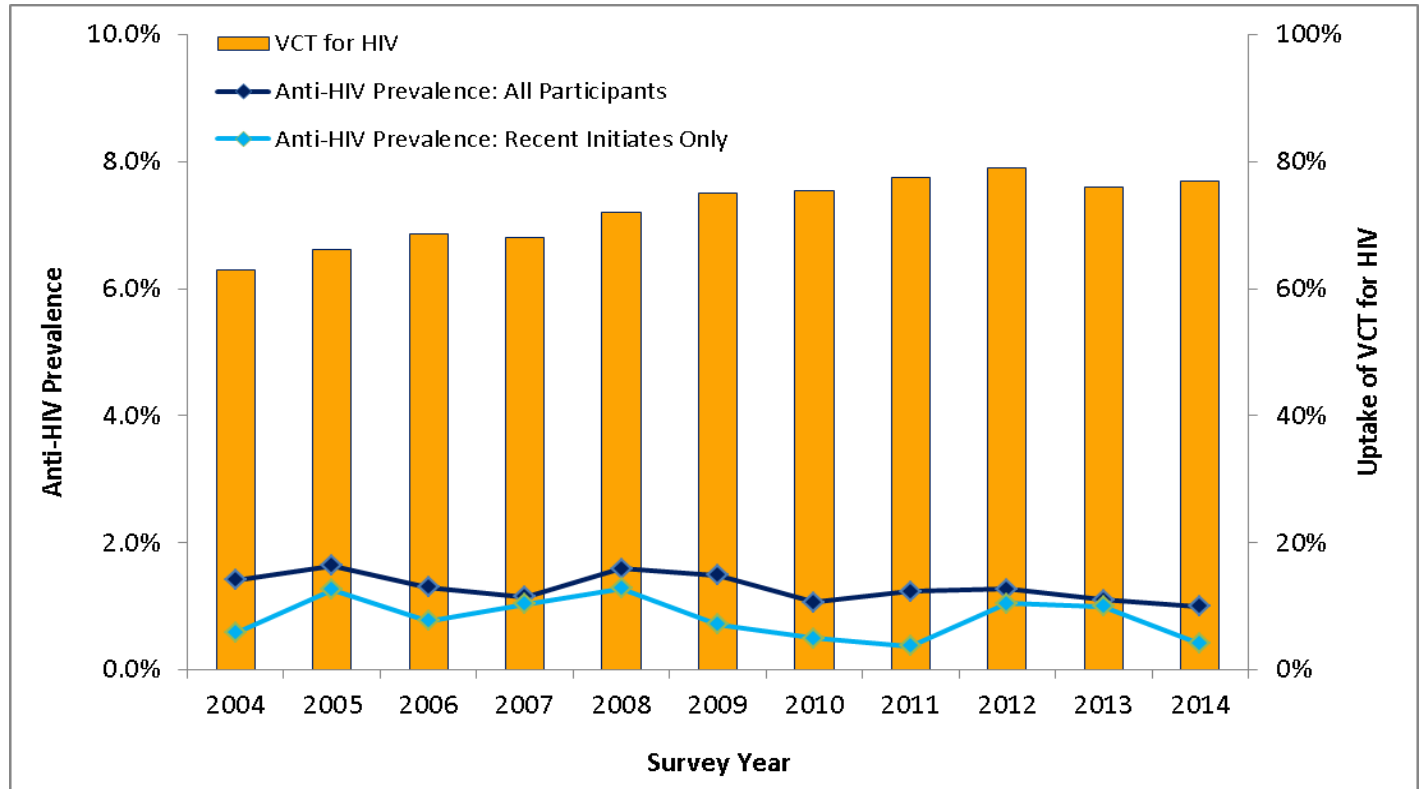
The prevalence of antibodies to the hepatitis B core antigen (anti-HBc, a marker of past or current infection with hepatitis B) has declined since 2006. During the period 2004 to 2006 the anti-HBc prevalence fluctuated between 26% and 28%, before declining to 14% (95% CI, 13%-16%) in 2014 (figure 2; table 2 of the dataset; and statistical note d). By country, anti-HBc prevalence in 2014 was as follows: Northern Ireland, 7.1% (95% CI, 3.9%-12%, table 25 of the dataset); Wales, 11% (95% CI, 7.9%-15%; table 24 of the dataset); and England, 15% (95% CI, 14%-17%; table 11 of the dataset).

The prevalence of anti-HBc among recent initiates to injecting drug use taking part in the survey across England, Wales and Northern Ireland was 2.1% (95% CI, 0.74%-4.9%) in 2014. During the period 2004 and 2013 the prevalence in this group fluctuated between 3.1% and 14%, with the prevalence in 2014 significantly lower than in 2004 (8.9%, 95% CI, 4.4%-9.9%; see figure 2; table 26 of the dataset; and statistical note e).

Samples where anti-HBc was detected were also tested for hepatitis B surface antigen (HBsAg), a marker of current infection. In 2014, 4.0% (18/445, 95% CI, 2.5%-6.3%) of samples with anti-HBc had HBsAg detected. This represents 0.58% (18/3,091, 95% CI, 0.36%-0.93%) of all the PWID surveyed in England, Wales and Northern Ireland in 2014.

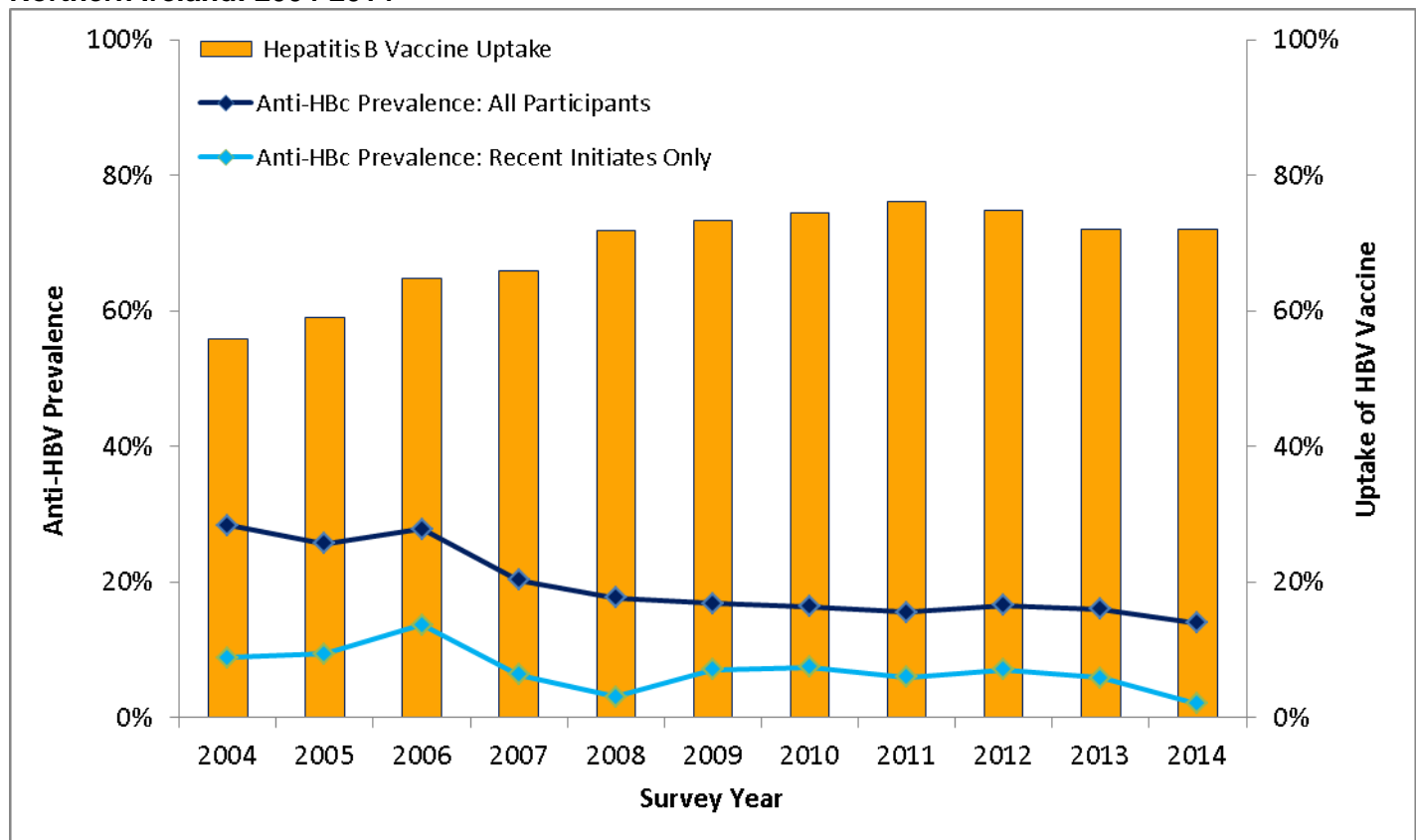
Self-reported vaccine uptake among the survey participants increased from 56% (95% CI, 54%-58%) in 2004 to 76% (95% CI, 75%-78%) in 2011. In 2014, uptake had dropped slightly to 72% (95% CI, 71%-74%; table 6 of the dataset; and statistical note f).

Figure 1. Prevalence of anti-HIV and uptake of voluntary confidential testing (VCT) for HIV among participants in the Unlinked Anonymous Monitoring Survey of PWID: England, Wales and Northern Ireland: 2004-2014



Note: A recent initiate is someone who first injected during the preceding three years.

Figure 2. Prevalence of anti-HBc and uptake of the vaccine against hepatitis B among participants in the Unlinked Anonymous Monitoring Survey of PWID: England, Wales and Northern Ireland: 2004-2014



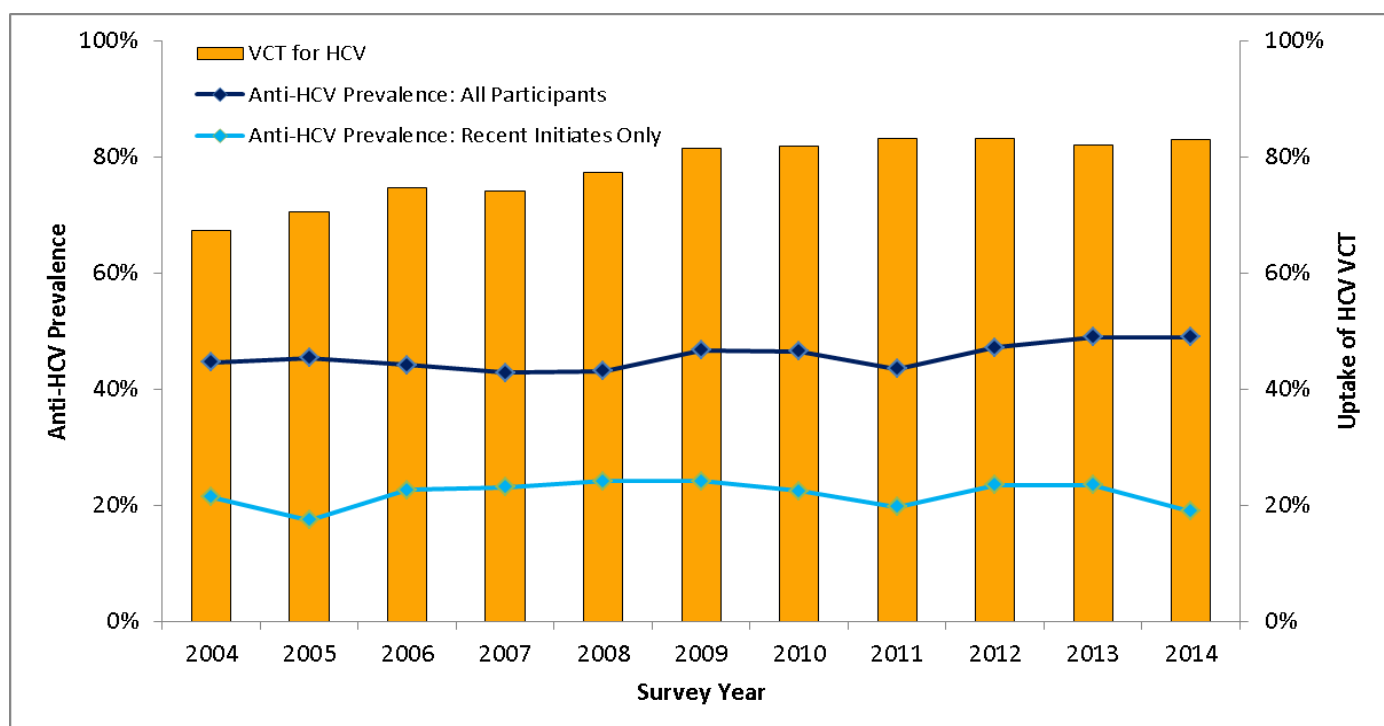
Note: A recent initiate is someone who first injected during the preceding three years.

Hepatitis C transmission among PWID

The prevalence of antibodies to the hepatitis C virus (anti-HCV) among the survey participants across England, Wales and Northern Ireland was 49% (95% CI, 47%-51%) in 2014. This is similar to the anti-HCV prevalence of 45% (95% CI, 43%-47%) seen in 2004 (see figure 3; table 3 of the dataset; and statistical note g). However, the level seen during the last decade, though a little higher than at the end of the 1990s, is much lower than those found in the early 1990s when prevalence was over 60% [4]. By country, anti-HCV prevalence in 2014 was as follows: Northern Ireland, 23% (95% CI, 17%-31%; see table 25 of the dataset); Wales, 50% (95% CI, 44%-56%; see table 24 of the dataset); and England, 50% (95% CI, 49%-52%; see table 11 of the dataset). The anti-HCV prevalence in England and Northern Ireland has not changed significantly over the last decade (see tables 11 and 25 of the dataset; and statistical notes h and i). In Wales, although the anti-HCV prevalence in 2014 was significantly higher than it was a decade ago, it had not changed greatly in recent years (see table 24 of the dataset; and statistical note j).

The prevalence of anti-HCV among the recent initiates taking part in the survey across England, Wales and Northern Ireland was 19% (95% CI, 15%-25%) in 2014. This is a similar level to that seen in this group over the last decade; prevalence in this group was 21% (95% CI, 17%-26%) in 2004 (see figure 3; table 26 of the dataset; and statistical note k).

Figure 3. Prevalence of anti-HCV and uptake of voluntary confidential testing (VCT) for hepatitis C among participants in the Unlinked Anonymous Monitoring Survey of PWID: England, Wales and Northern Ireland: 2004-2014



Note: A recent initiates is someone who first injected during the preceding three years.

There has been a significant increase over the past decade in the self-reported uptake of VCT for hepatitis C, with the proportion ever tested rising from 67% (95% CI, 65%-69%) in 2004 to 82% (95% CI, 80%-83%) in 2010. The level has been stable since then and was 83% (95% CI, 82%-85%) in 2014 (see figure 3; table 8 of the dataset; and statistical note l). Over half (52%, 95% CI, 50%-55%) of participants with anti-HCV, who answered the questions on the uptake of VCT for hepatitis C, reported that they were aware of their hepatitis C infection in 2014 (see table 8 of the dataset). This indicates that almost half of the hepatitis C infections in this population remain undiagnosed.

Symptoms of an infection at an injection site

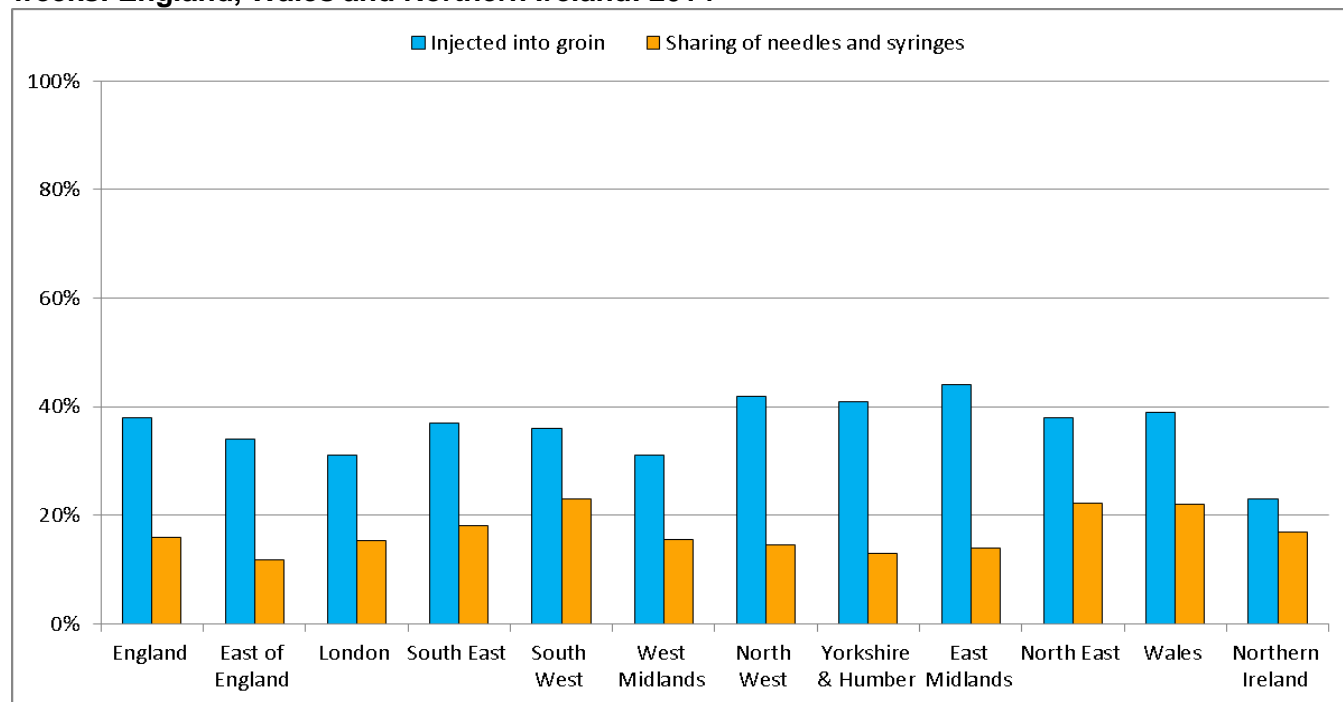
Symptoms of a possible injecting-site infection are common among PWID across England, Wales and Northern Ireland. In 2014, 31% (95% CI, 29%-33%) of PWID who had injected during the preceding year reported that they had experienced an abscess, sore or open wound at an injection site – all possible symptoms of an injecting-site infection – in that 12-month period (see table 9 of the dataset).

Behavioural factors

The level of needle and syringe (direct) sharing among those who had injected during the preceding four weeks has declined, from 28% (95% CI, 26%-30%) in 2004 to 17% (95% CI, 15%-19%) in 2014 (see table 4 of the dataset; and statistical note m). Direct sharing was found to vary across England, Wales and Northern Ireland, ranging from 12% (95% CI, 5.5%-22%) in the East of England to 23% (95% CI, 17%-30%) in the South West of England (figure 4; and see tables 11 to 25 of the dataset). Throughout the 2004 to 2014 period, direct sharing levels were higher among women than men; in 2014, 21% (95% CI, 17%-26%) of women reported direct sharing compared with 15% (95% CI, 14%-18%) of men (see table 4 of the dataset).

Injecting drugs into higher risk sites on the body was common. The most commonly used higher risk site was the groin; with 38% (95% CI, 35%-40%) of PWID reporting that they had injected into their groin during the previous four weeks in 2014 (see table 27 of the dataset). The extent of groin injecting varied across England, Wales and Northern Ireland (figure 4; and see tables 11 to 25 of the dataset) from 23% (95% CI, 11%-40%) in Northern Ireland to 44% (95% CI, 38%-51%) in the East Midlands. The use of other higher risk injection sites was less common: with 11% (95% CI, 10%-13%) reporting that they had injected into their feet, 23% (95% CI, 21%-26%) into their legs, and 30% (95% CI, 28%-32%) into their hands (see table 27 of the dataset).

Figure 4. Levels of needle and syringe sharing and injection into the groin among participants in the Unlinked Anonymous Monitoring Survey of PWID who had injected during the preceding four weeks: England, Wales and Northern Ireland: 2014



In 2014, over two-thirds (68%, 95% CI, 66%-70%) of the participants reported having anal or vaginal sex during the preceding year – this level has changed little over time (see table 10 of the dataset). Of those who had sex in the preceding year, 40% (95% CI, 38%-42%) reported having had two or more sexual partners during that time and, of these, only 22% (95% CI, 19%-25%) reported always using condoms for anal or vaginal sex (see table 10 of the dataset).

Social and environmental factors

Homelessness and imprisonment were both common, with 74% (95% CI, 72%-75%) of participants in 2014 reporting that they had ever been homeless and 69% (95% CI, 67%-71%) reporting that they had ever been imprisoned. These levels are similar to those seen in previous years (see table 27 of the dataset).

PWID who exchange sex for money, goods or drugs may be particularly vulnerable to harm. Overall, 12% (95% CI, 11%-13%) of participants reported ever having exchanged sex for money, goods or drugs in 2014 (see table 27 of the dataset).

Conclusion

Data from the main UAM Survey of PWID indicate that the prevalence of anti-HBc has declined and the prevalence of HIV and hepatitis C among people who inject psychoactive drugs are currently stable; though the prevalence of hepatitis C in Wales is higher than a decade ago. Although reported needle and syringe sharing has declined over the last decade, the levels of these three infections among recent initiates to injecting suggest that the extent of their transmission has changed little in recent years. The uptake of important interventions, such as hepatitis B vaccination and HIV testing, is higher than a decade ago. However, the uptake of these interventions has changed little over the last five years, and around half of PWID with antibodies to hepatitis C remain unaware of their infection and so are unable to enter a care pathway.

These findings indicate that unsafe injecting continues to be a problem and that there is a need to maintain and strengthen public health interventions that aim to reduce injection related risk behaviours. The impact of public health interventions which aim to prevent HIV and hepatitis C infection through injecting drug use, such as needle and syringe programmes [5] and opiate substitution therapy [6], has been shown to be dependent on their coverage [7-10]. In addition to these interventions, increasing the treatment of hepatitis C infection in PWID should also reduce the transmission of hepatitis C among PWID [11]. The provision of interventions that aim to reduce infections among PWID should be regularly reviewed to ensure that the coverage of these is appropriate to local need.

References

1. National Infection Service, Public Health England. Unlinked Anonymous Monitoring Survey of People Who Inject Drugs: data tables. July 2015.
<https://www.gov.uk/government/statistics/people-who-inject-drugs-hiv-and-viral-hepatitis-monitoring>
2. Health Protection Agency, Centre of Infections. Unlinked Anonymous Monitoring Survey of Injecting Drug Users in Contact with Specialist Services: data tables. July 2010.
http://webarchive.nationalarchives.gov.uk/20140629102627/http://hpa.org.uk/web/HPAweb&HPAwebStandard/HPAweb_C/1202115519183
3. *Hepatitis C in the UK: 2015 report* (forthcoming). London: Public Health England, July 2015. Downloadable from the PHE health protection website: Home › Publications › Infectious diseases › Bloodborne infections › Hepatitis C in the UK.
4. Sweeting MJ, Hope VD, Hickman M, *et al.* Hepatitis C infection among injecting drug users in England and Wales (1992-2006): There and back again? *American Journal of Epidemiology* 2009; 170:352-60.
5. Needle and syringe programmes: providing people who inject drugs with injecting equipment. NICE, Public Health Guidance, PH52, April 2014. <http://guidance.nice.org.uk/PH52>.
6. Drug misuse and dependence – guidelines on clinical management: update 2007. London: Department of Health, 2007.
7. Van Den Berg C, Smit C, Van Brussel G, *et al.* Full participation in harm reduction programmes is associated with decreased risk for human immunodeficiency virus and hepatitis C virus: evidence from the Amsterdam Cohort Studies among drug users. *Addiction* 2007; 102:1454-1462.
8. Craine N, Hickman M, Parry JV, *et al.* Incidence of hepatitis C in drug injectors: the role of homelessness, opiate substitution treatment, equipment sharing, and community size. *Epidemiol Infect.* 2009; 137:1255-1265.
9. Hope VD, Hickman M, Ngui SL, *et al.* Measuring the incidence, prevalence, and genetic relatedness of hepatitis C infections among community recruited sample of injecting drug users using dried blood spots. *Journal of Viral Hepatitis*, 2011; 18:262-70.
10. Turner KM, Hutchinson S, Vickerman P, *et al.* The impact of needle and syringe provision and opiate substitution therapy on the incidence of hepatitis C virus in injecting drug users: pooling of UK evidence. *Addiction* 2011; 106:1978-88.
11. Martin NK, Vickerman P, Grebely J, *et al.* Hepatitis C virus treatment for prevention among people who inject drugs: Modeling treatment scale-up in the age of direct-acting antivirals. *Hepatology* 2013;58:1598-609

Statistical notes

- a) After adjusting for age, gender and region of recruitment (London vs. elsewhere) in a multi-variable analysis, the odds ratio for 2014 was 0.83 [95% CI, 0.49-1.4] compared to 1.0 in 2004; indicating no significant change in the HIV prevalence in England over time. However, compared to 2004, prevalence was significantly higher in 2008.
- b) After adjusting for age, gender, and region of recruitment (London vs. elsewhere) in a multi-variable analysis, the HIV prevalence among the recent initiates did not vary between 2003 and 2013, with an odds ratio of 0.60 [95% CI, 0.053-6.8] in 2014 compared to 1.0 in 2004; indicating no significant change in prevalence over time.

- c) After adjusting for age, gender and region of recruitment in a multi-variable analysis, the odds ratio for 2014 was 2.1 [95% CI, 1.8-2.3] compared to 1.0 in 2004; indicating a significant increase in the uptake of VCT for HIV over time.
- d) After adjusting for age, gender, and region of recruitment in a multi-variable analysis, the anti-HBc prevalence in 2014 was significantly different from that in 2004; the odds ratio in 2014 was 0.42 [95% CI, 0.36-0.49] compared to 1.0 in 2004; indicating a significant decrease over time. Prevalence was also significantly lower than in 2005 and then from 2007 onwards.
- e) After adjusting for age, gender and region of recruitment in a multi-variable analysis, the anti-HBc prevalence among recent initiates has varied over time. The odds ratio for 2014 was 0.26 [95% CI, 0.091-0.75], lower than the odds ratio of 1.0 in 2004. Prevalence in this group was also significantly lower in 2008.
- f) After adjusting for age, gender and region of recruitment in a multi-variable analysis, the odds ratio for 2014 was 2.3 [95% CI, 2.0-2.6] compared to 1.0 in 2004; indicating a significant increase in hepatitis B vaccine uptake over time. If 2014 is taken as the baseline year, then vaccine uptake was higher in 2011 (odds ratio 1.22 [95% CI, 1.1-1.4]) than in 2014, and it was lower from 2004 to 2007 inclusive.
- g) After adjusting for age, gender and region of recruitment in a multi-variable analysis, the odds ratio in 2014 of 1.1 [95% CI, 0.99-1.3] was not significantly different from the odds ratio of 1.0 in 2004; indicating no significant change in hepatitis C prevalence between these two years. Prevalence was, however, significantly higher than in 2004 in both 2009 and 2013, and significantly lower in 2008.
- h) After adjusting for age, gender and region of recruitment in England in a multi-variable analysis, the odds ratio in 2014 of 1.1 [95% CI, 0.94-1.2] was not significantly different from the odds ratio of 1.0 in 2004; indicating no significant difference in the hepatitis C prevalence in England between these years. The prevalence in 2009 and 2013 was significantly higher than in 2004, and that in 2008 was significantly lower.
- i) After adjusting for age, gender and area of recruitment in Northern Ireland in a multi-variable analysis, the odds ratio in 2014 of 0.58 [95% CI, 0.30-1.1] was not significantly different from the odds ratio of 1.0 in 2004; indicating no significant change in hepatitis C prevalence in Northern Ireland.
- j) After adjusting for age, gender and area of recruitment in Wales in a multi-variable analysis, the odds ratio in 2014 of 3.1 [95% CI, 1.9-4.9] was significantly different from the odds ratio of 1.0 in 2003-2005; indicating a significant change in hepatitis C prevalence in Wales over time.
- k) After adjusting for age, gender, and region of recruitment in a multi-variable analysis, the odds ratio for 2014 was 0.97 [95% CI, 0.61-1.5] which was not significantly different from the odds ratio of 1.0 in 2004; indicating no significant change in the hepatitis C prevalence among the recent initiates between these years.
- l) After adjusting for age, gender and region of recruitment in a multi-variable analysis, the odds ratio for 2014 was 2.5 [95% CI, 2.2-2.8] compared to 1.0 in 2004 indicating a significant increase in uptake of VCT for hepatitis C over time.
- m) After adjusting for age, gender, and region of recruitment in a multi-variable analysis, the level of direct sharing in 2014 was significantly different from 2004; the odds ratio in 2014 was 0.65 [95% CI, 0.54-0.77] compared to 1.0 in 2004 indicating a significant decrease over time.
-

Infection reports / Enteric

Volume 9 Number 24 Published on: 10 July 2015

- ▶ **General outbreaks of foodborne illness in humans, England and Wales: weeks 23-26/2015**
- ▶ **Common gastrointestinal infections, England and Wales, laboratory reports: weeks 23-26/2015**
- ▶ **Less common gastrointestinal infections, England and Wales: laboratory reports weeks 14-26/2015**
- ▶ **Salmonella infections (faecal specimens) England and Wales, reports to Public Health England (salmonella data set): May 2015**
- ▶ **Suspected and laboratory-confirmed reported norovirus outbreaks in hospitals, with regional breakdown: outbreaks occurring in weeks 23-26/2015**

General outbreaks of foodborne illness in humans, England and Wales: weeks 23-26/2015

Preliminary information has been received about the following outbreaks.

PHE Centre/ Health Protect'n Team	Organism	Location of food prepared or served	Month of outbreak	Number ill	Cases positive	Suspect vehicle	Evidence
Essex	<i>Clostridium perfringens</i> suspected	Club	May	17	–	No food identified – None given	None
West Midlands North	Campylobacter	Hotel	June	2	–	Not known	Not known
Essex	Campylobacter	School	June	12	4	No food identified – None given	Not known
North Yorkshire and Humber	<i>Salmonella</i> spp, non- typhoidal or unspecified	School	June	2	–	Not known	Not known
Thames Valley	<i>Salmonella</i> spp, unspecified	Pub	June	4	–	Not known	Not known

Common gastrointestinal infections, England and Wales, laboratory reports: weeks 23-26/2015

Laboratory reports	Number of reports received				Total reports 23-26/15	Cumulative total	
	23/15	24/15	25/15	26/15		1-26/15	1-26/14
Campylobacter	1510	1746	1541	1639	6453	28485	29649
<i>Escherichia coli</i> O157 *	11	15	11	21	58	190	271
Salmonella †	147	63	3	13	226	2986	2511
<i>Shigella sonnei</i>	26	19	29	13	87	560	505
Rotavirus	228	234	231	140	833	4118	3355
Norovirus	143	102	77	78	400	5395	3096
Cryptosporidium	69	80	60	45	254	1658	1399
Giardia	69	100	92	73	334	1999	1687

*Vero cytotoxin-producing isolates: data from PHE's Gastrointestinal Bacteria Reference Unit (GBRU).

† Data from GBRU.

Less common gastrointestinal infections, England and Wales: laboratory reports weeks 14-26/2015

Laboratory reports	Total reports 14-26/2015	Cumulative total to 26/2015	Cumulative total to 26/2014
Astrovirus	52	205	157
Sapovirus	53	144	73
<i>Shigella boydii</i>	16	37	28
<i>Shigella dysenteriae</i>	10	16	17
<i>Shigella flexneri</i>	177	430	344
<i>Plesiomonas</i>	14	25	22
<i>Vibrio</i> spp.	21	34	25
<i>Yersinia</i> spp	7	17	29
<i>Entamoeba histolytica</i>	14	35	23
<i>Blastocystis hominis</i>	21	55	90
<i>Dientamoeba fragilis</i>	1	2	20

Salmonella infections (faecal specimens) England and Wales, reports to Public Health England (salmonella data set): May 2015

Details of 630 serotypes of salmonella infections recorded in April are given in the table below. In June 2015, 209 salmonella infections were recorded.

Organism	Cases: May 2015
S. Enteritidis PT4	8
S. Enteritidis (other PTs)	168
S. Typhimurium	121
S. Virchow	31
Others (typed)	302
Total salmonella (provisional data)	630

Note: Following the introduction of a new laboratory reporting system (SGSS) in December 2014, direct comparisons with data generated by the previous system (LabBase2) may not be valid.

Suspected and laboratory-confirmed reported norovirus outbreaks in hospitals, with regional breakdown: outbreaks occurring in weeks 23-26/15

The hospital norovirus outbreak reporting scheme (HNORS) recorded 21 outbreaks occurring between weeks 23 and 26, 2015, 30 of which (95%) led to ward/bay closures or restriction to admissions. Ten outbreaks (48%) were recorded as laboratory confirmed due to norovirus (see table). For the calendar year 2015 – between week 1 (January) and week 26 (week beginning 22 June) – 520 outbreaks were reported. Ninety-four per cent (491) of reported outbreaks resulted in ward/bay closures or restrictions to admissions and 68% (353) were laboratory confirmed as due to norovirus (see table).

Seasonal comparison of laboratory reports of norovirus (England and Wales)

In the current season to date† (from week 27, 2014, to week 26, 2015), there were 8309 laboratory reports of norovirus. This is 6% lower than the average number of laboratory reports for the same period in the seasons between 2009/10 and 2013/2014 (8841, see table). The number of laboratory reports in the most recent weeks will increase as further reports are received.

† The norovirus season runs from July to June (week 27 in year one to week 26 in year two) in order to capture the winter peak in one season.

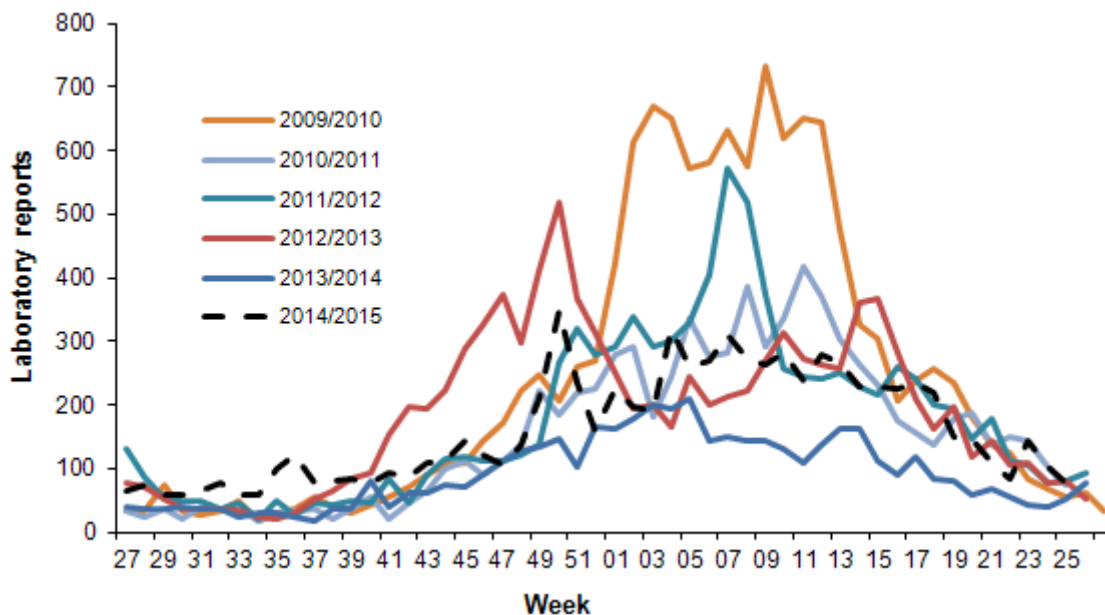
Note: A new laboratory reporting system was commissioned on 1 December 2014; as a result, direct comparisons between the earlier report (based on LabBase2) and the new system (SGSS) may not be valid.

Suspected and laboratory-confirmed reported norovirus outbreaks in hospitals, with regional breakdown: outbreaks occurring in weeks 23-26/2015

Region/ PHE Centre	Outbreaks between weeks 23-26/2015			Total outbreaks 1-26/2015		
	Outbreaks	Ward/bay closure*	Lab- confirmed	Outbreaks	Ward/bay closure*	Lab- confirmed
Avon, Gloucestershire and Wiltshire	2	2	2	60	59	47
Bedfordshire, Hertfordshire and Northamptonshire	–	–	–	7	7	6
Cheshire and Merseyside	–	–	–	8	6	8
Cumbria and Lancashire	1	1	–	38	37	20
Devon, Cornwall and Somerset	4	4	1	110	110	77
Greater Manchester	2	2	–	17	14	8
Hampshire, Isle of Wight and Dorset	–	–	–	24	23	19
Lincolnshire, Leicestershire, Nottinghamshire and Derbyshire	–	–	–	18	17	14
London	–	–	–	4	4	1
Norfolk, Suffolk, Cambridgeshire and Essex	–	–	–	–	–	–
North East	2	2	1	45	42	28
Sussex, Surrey and Kent	1	1	–	16	16	12
Thames Valley	1	1	–	4	3	1
West Midlands	4	4	2	105	102	56
Yorkshire and the Humber	4	3	4	64	51	56
Total	21	20	10	520	491	353

* Note: not all outbreaks result in whole wards closures, some closures are restricted to bays only.

Current season's laboratory reports (to week 26, 2015) compared to previous seasons' weekly average (England and Wales)



Calendar year 2015 (to week 26) norovirus laboratory reports compared to previous years' weekly mean (2010-2014)

