

# Vaccine Uptake in Children in Wales

## April to June 2016

COVER 119: Wales August 2016



### Key points

- For children at one year of age, uptake of the “5 in 1”, MenC and pneumococcal conjugate vaccines all exceeded 95% this quarter. Uptake of the “5 in 1” vaccine was 95% or over in five Health Boards (HB) and in 17 local authority (LA) areas.
- Uptake of two doses of rotavirus vaccine remained stable at 94%. One HB and six LA areas had an uptake above 95%.
- Uptake of the first dose of MMR vaccine in two year old children remained above 95% this quarter. Six HBs and 14 LA areas achieved an uptake of 95%.
- The proportion of children up to date with all routine immunisations by four years of age dropped to slightly below 85%. For children reaching their fifth birthday this quarter, 88% were up to date.
- Uptake of the second MMR dose by five years of age was 91%.
- Uptake of the “4 in 1” pre-school booster in five year old children remained at 92% again this quarter.
- Uptake of the first dose of the new two-dose Human Papillomavirus (HPV) vaccine schedule in girls in the 2015-16 School Year 9 (13-14 year olds) remained at 90% this quarter.
- Uptake of MenACWY vaccine in School Year 9 was 75%, uptake in School Year 11 (15-16 year olds) was 78%.
- Coverage of one dose of MMR vaccine in the 2015-16 School Year 10 is currently 94% and coverage of a completed two dose course is 88%.
- Coverage of the Td/IPV teenage booster in the 2015-16 School Year 10 is currently 83%.

### Background

These results are for children living in Wales in June 2016 and reaching their first, second, fourth, fifth and 16<sup>th</sup> birthdays during the quarter 01/04/2016 to 30/06/2016. For the first time this quarter, uptake of key immunisation in older children, which are mainly provided through school based programmes in all areas other than Cardiff and Vale University Health Board, are presented as school year cohorts (children reaching their 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> birthdays between 01/09/2015 and 31/08/2016). Current uptake of HPV vaccination<sup>1</sup> dose 1 in girls in the 2015-16 School Years 8 and 9 is presented. Both of these school year groups will have been on the new, two dose HPV vaccine schedule. Coverage of HPV in School Year 10 girls, who would have been on the previous three dose HPV vaccine schedule, is also presented. BCG and hepatitis B immunisation uptake data are also presented here. BCG and hepatitis B immunisations are not part of the routine childhood schedule and are given selectively following risk assessment; further information on circumstances in which these immunisations should be given can be found in: Immunisation Against Infectious Disease (The Green Book, available from <http://immunisation.dh.gov.uk/category/the-green-book/>). Coverage of neonatal hepatitis B immunisation is presented here, using data from the Public Health Wales Neonatal Hepatitis B database.

This quarter the process for collating and cleaning of data from community child health databases has been improved, which has led to a slight increase in the number of children in all age groups. This follows ongoing efforts to make the data as accurate and representative of the child population of Wales as possible.

<sup>1</sup> HPV vaccination protects girls against cervical cancer associated with HPV types 16 and 18.

## Findings

1. Uptake of all three doses of the combined “5 in 1” DTaP/IPV/Hib<sup>2</sup> vaccine, scheduled at 2, 3 and 4 months of age, in children reaching their first birthday remained stable this quarter at 96.2%. Uptake ranged by Health Board from 94.2% (Hywel Dda UHB) to 97.6% (Cwm Taf UHB) and by Local Authority (LA) from 92.8% (Conwy) to 98.5% (Torfaen). Five health boards and 17 of the 22 LA areas achieved the target 95% uptake (Figures 2 and 5, Tables 2 and 3).
2. National uptake of a completed one dose course of MenC<sup>3</sup> vaccine in children reaching their first birthday this quarter was 97.2% compared to 97.6% last quarter. Uptake in health boards ranged from 95.8% (Cardiff and Vale UHB) to 98.7% (Cwm Taf UHB) and ranged by LA from 95.3% (Conwy) to 99.1% (Rhondda Cynon Taf). All seven Health Boards and all LA areas achieved an uptake in excess of the 95% target (Figures 1 and 2, Tables 2 and 3).
3. Uptake of a complete two dose primary course of pneumococcal conjugate vaccination (PCV2<sup>3</sup>) in children reaching their first birthday was 96.1% this quarter compared to 96.3% last quarter, ranging by LA from 93.5% (Conwy) to 98.9% (Torfaen). Five health boards and 17 LA areas achieved the target 95% uptake (Figures 1 and 2, Table 3).
4. Uptake of two doses of rotavirus vaccine in children reaching their first birthday remained stable at 93.8% this quarter compared to 93.9% last quarter. Uptake in health boards ranged from 92.2% (Cardiff and Vale UHB) to 96.9% (Cwm Taf UHB) and ranged by LA from 89.9% (Ceredigion) to 97.2% (Rhondda Cynon Taf) (Figure 2, Tables 2 and 3).
5. Uptake of the first dose of MMR<sup>4</sup> in children reaching their second birthday (scheduled at 12 to 13 months of age) was 95.7% this quarter compared to 95.5% last quarter. Uptake ranged by health board from 93.7% (Powys THB) to 96.6% (Cwm Taf UHB) and by LA area from 93.7% (Powys) to 98.2% (Wrexham) (Figures 1, 2 and 6, Tables 2 and 4). Six health boards and 14 LA areas achieved the target of 95% uptake.
6. Uptake of the final dose of Pneumococcal Conjugate Vaccine (PCVf, scheduled at 12 to 13 months of age) in children reaching their second birthday remained stable at 96.0% this quarter. Uptake by LA ranged from 94.1% (Newport) to 98.7% (Wrexham) (Figure 2, Tables 2 and 4). All health boards and 15 LA areas achieved an uptake of 95% or over.
7. Uptake of the Hib/MenC booster (given at 12 to 13 months of age) in children reaching two years of age remained stable at 95.1% this quarter. Uptake ranged by health board from 93.0% (Powys THB) to 96.3% (Cwm Taf UHB), and ranged by LA from 92.6% (Pembrokeshire) to 97.9% (Wrexham and Monmouthshire) (Tables 2 and 4). Fourteen LA areas achieved uptakes in excess of 95% (Figures 1 and 2).
8. In children reaching four years of age this quarter, uptake of the “4 in 1” DTaP/IPV<sup>5</sup> pre-school booster decreased to 87.9%, compared to 89.2% last quarter. Coverage of the Hib/MenC booster is currently 94.0% and uptake of two doses of MMR decreased to 86.8%, compared to 87.9% last quarter (Table 5). The proportion of children who were up to date with all these routine immunisations at four years of age decreased to 84.6% this quarter from 86.2% last quarter. This ranged by health board from 78.0% (Aneurin Bevan UHB) to 88.5% (Betsi Cadwaladr UHB) and by LA from 75.0% (Newport) to 92.0% (Merthyr Tydfil) (Figure 3, Tables 1 and 5). The proportion of children who were up to date with the above immunisations by their 5<sup>th</sup> birthday decreased to 88.4% this quarter

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<sup>2</sup> DTaP/IPV/Hib vaccine protects against Diphtheria, Tetanus, Pertussis (Whooping Cough), Polio and Hib infection.

<sup>3</sup> MenC vaccine protects against meningitis caused by meningococcus group C infection. PCV protects against pneumococcal meningitis, bacteraemia, pneumonia and otitis media. Children reaching one and two years of age this quarter have been scheduled for the two dose course of pneumococcal conjugate vaccination (PCV) at two and four months of age and a one dose MenC primary course scheduled at three months of age. Children reaching 2 years of age this quarter should have been offered a routine dose of the Hib/ MenC and PCV at 12 to 13 months of age.

<sup>4</sup> MMR protects against measles, mumps and rubella infections.

compared to 89.0% last quarter, ranging by health board from 84.2% (Powys THB) to 91.3% (Cwm Taf UHB) (Table 6). There has been an improvement of 3.3% in the proportion up to date in these children since we reported on them, aged 4years, this time last year.

9. In children reaching five years of age this quarter, coverage of one dose of MMR is currently 97.0%. Uptake of two doses of MMR decreased to 91.0% this quarter, compared to 91.4%, last quarter (Table 7). Uptake of two doses of MMR ranged by health board from 86.7% (Powys THB) to 92.8% (Cwm Taf UHB) and by LA from 86.6% (Newport) to 96.2% (Flintshire) (Figures 1 and 2, Tables 2 and 7). One LA area exceeded 95% uptake for two doses of MMR by five years of age (Figure 7).
10. Uptake of the "4 in 1" DTaP/IPV<sup>5</sup> pre-school booster in children reaching their fifth birthday remained stable at 92.3% this quarter compared to 92.4% in the previous quarter, ranging by health board from 90.5% (Aneurin Bevan UHB) to 95.6% (Betsi Cadwaladr UHB) and by LA from 87.4% (Newport) to 98.0% (Flintshire) (Tables 2, 7). Five LAs achieved the 95% uptake target (Figure 8).
11. Uptake of a two dose primary course of MenC in children reaching their fifth birthday this quarter was 93.7%, a decrease compared to 94.3% last quarter. Uptake ranged by health board from 90.9% (Powys THB) to 97.0% (Cwm Taf UHB) and by LA from 89.8% (Cardiff) to 98.4% (Torfaen) (Table 7).
12. From September 2014, the HPV vaccination programme changed for School Year 8 girls from a three dose to a two dose schedule following a Joint Committee on Vaccination and Immunisation (JCVI) recommendation. In the revised schedule, the first dose of HPV should be given to girls during School Year 8 with JCVI recommending a gap of 12 months before the second dose of HPV is received. Further information on the changes to the HPV vaccination programme can be found within the [CMO\(2014\)13](#) letter [1]. Timings of school vaccination sessions for the first dose vary in health boards throughout school year 8. Vaccination sessions for girls in the 2015-16 School Year 8 group are now complete for the school year, uptake in girls in this group was 84.1% compared to coverage of dose 1 in the 2015-16 School Year 9 which is currently 90.4% (Table 8). Current school Year 9 girls (turning 14 years of age during 01/09/15 to 31/08/2016) were the first School Year 8 group to be offered the two dose HPV schedule and should have received dose 1 in the previous school year followed by dose 2 this year. Uptake of the second dose in this group was 83.1% (Table 8).
13. Coverage in 2015-16 school year 10 girls (girls reaching their 15<sup>th</sup> birthday during 01/09/15 to 31/08/16) of a complete three dose course of HPV vaccine is currently 84.7% (Table 8). The 2015-16 school year 10 was the last group to be offered the three dose schedule of HPV. A very small minority of girls who started their vaccination course late would be on the two dose schedule and as such will never expect to have a third dose. Although appropriate for the vast majority of girls within this group, this should be kept in mind if using uptake of three doses to indicated a completed HPV course in this group.
14. The MenACWY conjugate vaccine was introduced in September 2015 replacing the single antigen meningococcal C teenage booster that was previously given to children in School Year 9 [2]. A phased catch up campaign was also introduced for older children with children turning 16 years of age between 01/09/15 and 31/08/2016 (School Year 11) being vaccinated in school and those aged 17 to 19 being vaccinated in general practice. Uptake of the MenACWY vaccine in the 2015-16 School Year 9 group was 75.5% (Table 9). Uptake of the MenACWY vaccine in the 2015-16 School Year 11 group was 77.7% (Table 11).

In Cardiff and Vale UHB the MenACWY catch-up campaign is provided through school to the 16 year olds whilst the 14 years olds are vaccinated in general practice. A proportion of 14 year olds would have been called to receive single antigen meningococcal C vaccine from their GP before MenACWY vaccination became available, these teenagers should receive (or have already received) an offer to return to receive the MenACWY vaccine.

Children in the current School Year 10 group will be offered the MenACWY vaccine when they are in the 2016-17 School Year 11, having previously been the single antigen Men C booster when they were in the 2014-15 School Year 9. Coverage of the single antigen Men C booster vaccine in this school year group is currently 81.2%.

15. Uptake of the Td/IPV<sup>6</sup> teenage booster in the 2015-16 School Year 9 group (children reaching 14 years of age) was 78.3%. Coverage of two doses of MMR in this year group is currently 87.7% and coverage of one dose is 93.0%. Coverage of a full course (two doses of MMR) of immunisation against rubella in 14 year old girls in this school year group is currently 88.3% (Table 9).
16. Coverage of the Td/IPV teenage booster in the 2015-16 School Year 10 group (children reaching 15 years of age) is currently 83.2%. Coverage of two doses of MMR in this year group is currently 88.4% and coverage of one dose is 93.7%. Coverage of a full course (two doses of MMR) of immunisation against rubella in 15 year old girls in this school year group is currently 89.0% (Table 10).
17. Coverage of the Td/IPV teenage booster in the 2015-16 School Year 11 group (children reaching 16 years of age) is currently 84.3%. Coverage of two doses of MMR in this year group is currently 89.2% and coverage of one dose is 94.1%. Coverage of a full course (two doses of MMR) of immunisation against rubella in 16 year old girls in this school year group is currently 89.8% (Table 11).
18. Coverage of two doses of MMR in children reaching 16 years of age this quarter (between 1<sup>st</sup> April 2016 and 30<sup>th</sup> June 2016) decreased to 88.5%, compared to 89.1% in children reaching this age during the previous quarter. Coverage ranged by LA from 82.4% (Monmouthshire) to 92.9% (Caerphilly). Coverage of one dose of MMR decreased to 93.8% this quarter, from 94.3% last quarter. Coverage of a full course (two doses of MMR) of immunisation against rubella in 16 year old girls this quarter decreased to 89.0% this quarter compared to 90.2% last quarter. Coverage of one dose decreased to 93.9% this quarter, compared to 94.8% last quarter. National coverage of the Td/IPV teenage booster in children reaching 16 years of age decreased to 84.1% this quarter, compared to 84.5% last quarter (Table 2 and 12).
19. Uptake of BCG<sup>8</sup> immunisation is presented in Table 13. These data are based on BCG immunisations recorded in the National Community Child Health Database. BCG immunisation has been received by 5.5%, 7.4%, 7.1% and 4.3% of children reaching their first, second, fifth and 16<sup>th</sup> birthdays (respectively) during quarter two 2016. This quarter Newport LA had the highest proportions of children given BCG by one year of age (15.6%) and Cardiff LA had the highest proportions of children given BCG by two years of age (20.7%).
20. Uptake data for hepatitis B immunisation, extracted from the Public Health Wales All Wales Neonatal Hepatitis B immunisation database, is presented in Table 14. Uptake of three doses of hepatitis B vaccine in children who were at risk of perinatal infection and reached their first birthday this quarter was 100%. Uptake of four doses of hepatitis B vaccine in children who were at risk of perinatal infection and reached their second birthday this quarter was 92.9%. Uptake of four doses of hepatitis B vaccine in children who were at risk of perinatal infection and reached their fifth birthday this quarter was 100%.

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<sup>5</sup>DTaP/IPV (and dTaP/IPV) vaccines boost protection against Diphtheria, Tetanus, Pertussis and Polio infection before school entry.

<sup>6</sup>Td/IPV boosts protection against Diphtheria, Tetanus and Polio infection before entering adulthood.

<sup>7</sup>BCG protects against tuberculosis infection. Numbers of eligible children for BCG are not known.

## Comment

Uptake of routine vaccination in children at one and two years of age at an all Wales level remained high and stable this quarter. Uptake of all routine primary immunisations in babies reaching their first birthday exceeded 95% again this quarter, except for rotavirus (which can't be given beyond 24 weeks of age), although uptake of all three doses of the combined "5 in 1" DTaP/IPV/Hib did not reach 95% in all Local Authority areas of Wales. Uptake of MMR dose one remains stable this quarter and remained above 95% in children reaching their second birthday in six health board areas.

There was a decrease in the proportion of children who were up to date with their routine immunisations by four years of age for the second consecutive quarter, this also represents a decrease compared to the same quarter last year. The proportion of children who were up to date with their immunisations by four years of age dropped slightly below 85%, with uptake of the "4 in 1" DTaP/IPV vaccine seeing the largest decrease.

The proportion of children up to date by 5 years of age this quarter has also decreased, although to a smaller degree than the decrease seen in four year olds. This appears to be a reflection of the downward trend in uptake of the second dose of MMR in children reaching five years of age.

Coverage of two doses of MMR vaccine is currently under 90% in 2015-16 School Years 9, 10 and 11. There has recently been a number of measles cases linked to music festivals across the UK [3]. As at 12/08/2016 five confirmed cases and one probable case of measles had been reported in Wales since the start of July, all of which were unvaccinated and linked to festivals [4].

The MenACWY catch-up campaign introduced for those in School Year 11 should act as an additional opportunity to check vaccine coverage of MMR vaccine in these individuals before they reach school-leaving age and catch-up becomes more challenging. The importance of checking that girls have received two doses of MMR vaccine has also increased since the announcement of the cessation of rubella screening in pregnancy from October this year [5].

## Changes to the COVER report

Provision of coverage figures by school year for the older age groups in this report is intended to give a clearer picture of the proportion of children protected against preventable disease at any given quarter and the progress of school based vaccine programmes throughout the academic year. At the time data for this report were extracted, vaccination sessions for the 2015-16 school year would have been complete as children break for the summer holidays, although data entry may not have been. Reported uptake figures in Cardiff and Vale UHB will not reflect the final uptake until the final quarter of the academic year has been reported on, as all vaccines in this area (apart from the HPV vaccine and the MenACWY catch-up campaign in 16 year olds) are given through General Practice and children are invited for vaccinations throughout the year when they turn the appropriate age. For this reason, and because timings of school-based immunisation sessions vary between health boards, caution should be taken when making comparisons for the current year between areas for teenage vaccinations.

This report also includes statistics for vaccination coverage in quarterly cohorts of 16 years of age. These data are provided as a measure of coverage in teenagers reaching school-leaving age.

This is the first report to show figures for uptake of meningococcal ACWY vaccine in children in the current School Year 9 and School Year 11 groups following the introduction of this vaccine in September 2015 to replace the single antigen meningococcal C vaccine [2].

During 2015 there was also the addition of routine vaccination against meningococcal group B disease for infants [6], uptakes for MenB vaccination will be reported in future COVER reports as eligible children reach the appropriate birthdays.

[1] Welsh Government (2014) Changes to the Human Papillomavirus (HPV) vaccination programme from September 2014, CMO letter (2014) 13.

<http://gov.wales/docs/phhs/publications/140707vaccinationen.pdf>

[2] Welsh Government (2015) Meningococcal ACWY conjugate vaccination (MenACWY) - Revision, Welsh Health Circular. WHC(2015)037. <http://gov.wales/docs/dhss/publications/150724whc037en.pdf>

[3] Public Health England. HPR volume 10 issue 25: news (5 August): Measles associated with summer festivals, August 2016. London, Public Health England. <https://www.gov.uk/government/publications/health-protection-report-volume-10-2016/hpr-volume-10-issue-25-news-5-august#measles-associated-with-summer-festivals>

[4] Public Health Wales. News (12 august) MMR warning after further increases of measles cases in Wales. <http://www.wales.nhs.uk/sitesplus/888/news/42349>

[5] Welsh Government. Cessation of antenatal screening for rubella susceptibility. Decision Report, June 2016. <http://gov.wales/about/cabinet/decisions/2016-new/jun-sep/health/re5375/?lang=en>

[6] Welsh Government (2015) Introduction of MenB Immunisation for Infants, Welsh Health Circular. WHC(2015)040. <http://gov.wales/docs/dhss/publications/150727whc040en.pdf>

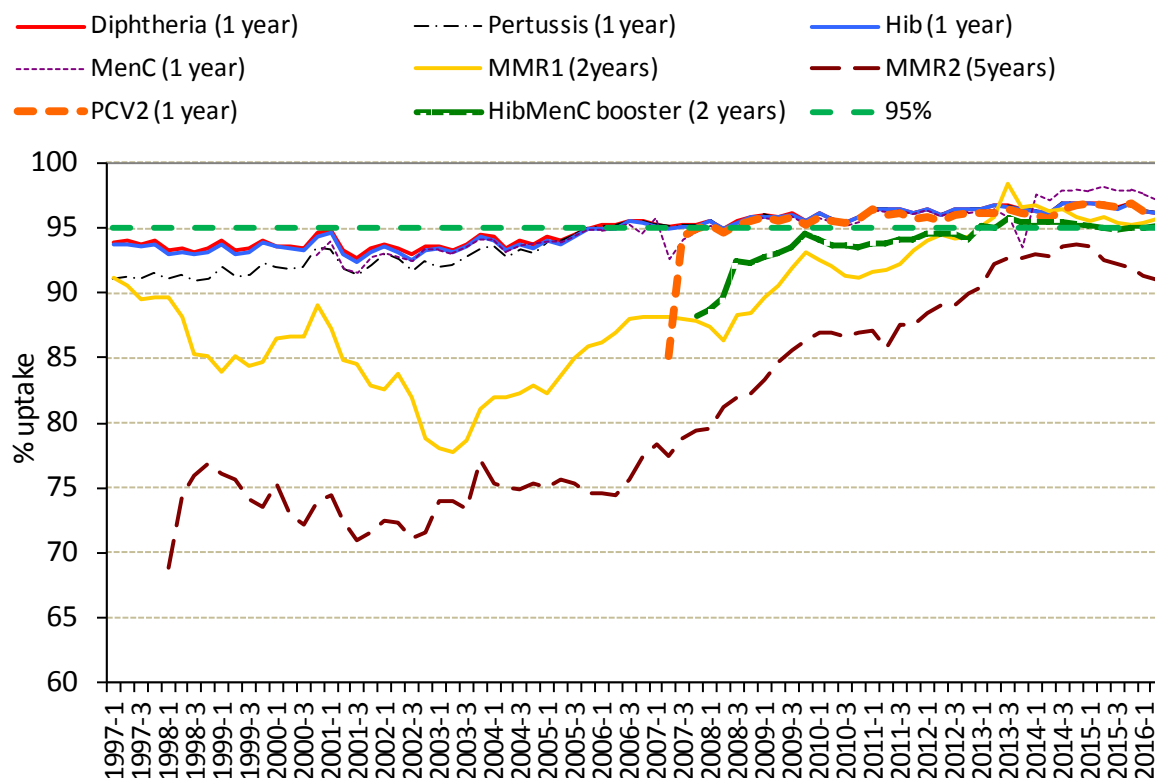
### **Report prepared by Public Health Wales Vaccine Preventable Disease Programme and Communicable Disease Surveillance Centre.**

Data for this report was provided by NHS Wales Informatics Service from the National Community Child Health Database (NCCHD). The data was sourced from Community Child Health databases maintained by local Child Health Office staff in Trusts throughout Wales based on regular returns from doctors and nurses who immunise or advise on immunisation. Uptake data presented throughout are for HB resident population, not for HB GP practice populations. The maps, graphs, tables 1 and 2 are best viewed in colour.

**Suggested citation for this report:** Public Health Wales Health Protection Division. Vaccine uptake in Children in Wales, April to June 2016: COVER report 119, August 2016. Cardiff, Public Health Wales.

For further information on this report please contact: [surveillance.requests@wales.nhs.uk](mailto:surveillance.requests@wales.nhs.uk)

**Figure 1.** Percentage uptake of childhood immunisations in Wales, quarter 1 1997 to quarter 2 2016\*. Data are for children reaching 1 year of age each quarter for diphtheria, pertussis, Hib, MenC<sup>9</sup> and pneumococcal conjugate vaccine (PCV2), children reaching 2 years of age for MMR1 (first dose) and the Hib/MenC booster, and 5 years of age for MMR2 (second dose).



\* Uptake data for quarter 3 2014 to quarter 4 2014 presented here are based on estimates calculated in August 2015, rather than published data, due to data quality problems affecting reported uptake of some immunisations in reports published during this period.

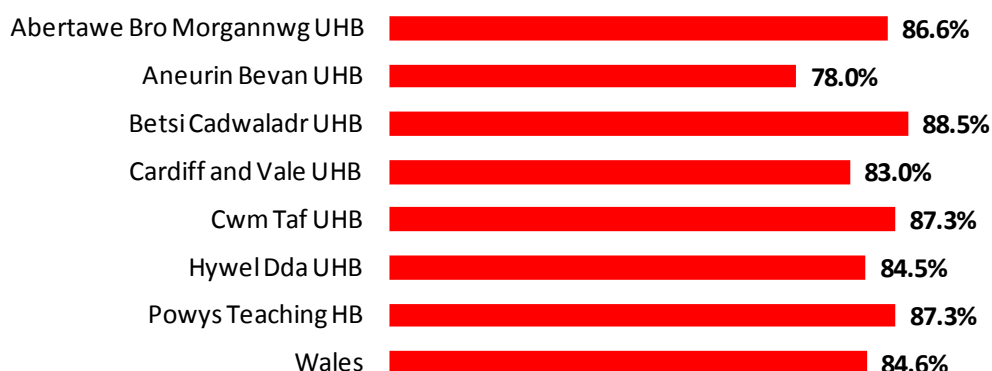
**Figure 2.** Summary of uptake rates for selected immunisations<sup>9</sup> in resident children reaching their 1st, 2nd, 5th and 16th birthday between 01/04/16 and 30/06/16 and resident on 30/06/16.

### All Wales Summary - COVER119

5 in 1 primary by age 1y (3 doses)	96.2%
MenC primary by age 1y (1 dose)	97.2%
Rotavirus primary by age 1yr (2 doses)	93.8%
PCV primary by age 1y (2 doses)	96.1%
MMR by age 2y (1st dose)	95.7%
PCV by age 2y (final (3rd) dose)	96.0%
Hib/MenC booster by age 2y	95.1%
MMR by age 5y (2nd dose)	91.0%
4 in 1 pre-school booster by age 5y	92.3%
MMR coverage (1 dose) by age 16y	93.8%
MMR coverage (2 doses) by age 16y	88.5%
3 in 1 Teenage booster by age 16y	84.1%

<sup>9</sup> MenC uptake for children reaching one year of age is based on a completed one dose course of MenC vaccination.

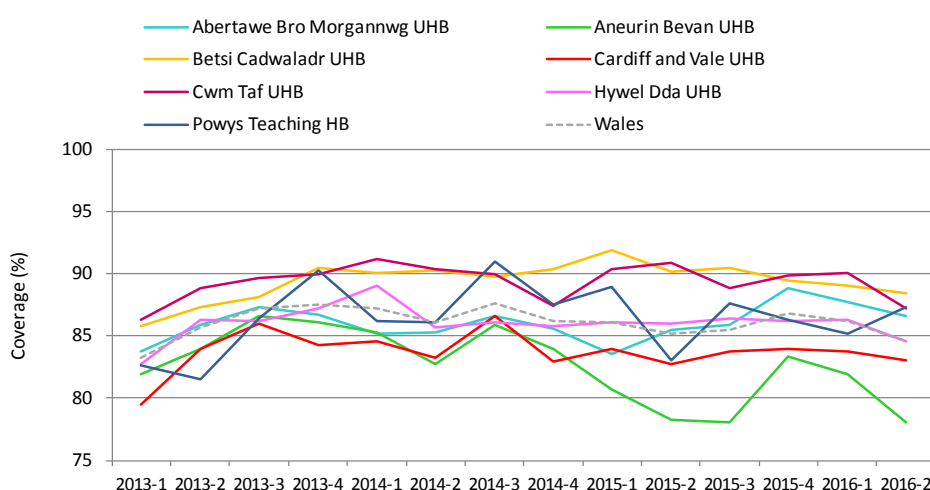
**Figure 3.** Percentage uptake of resident children reaching their 4<sup>th</sup> birthday between 01/04/16 and 30/06/16 and are up to date with all scheduled vaccines<sup>10</sup> by Health Board.



**Table 1.** Percentages of resident children reaching their 4<sup>th</sup> birthday during quarter 2 2015 to quarter 2 2016\* who are up to date with all scheduled vaccines<sup>10</sup>, by Health Board.

Area	Up to date in schedule				
	2015-2	2015-3	2015-4	2016-1	2016-2
Abertawe Bro Morgannwg UHB	85.5	85.9	88.8	87.7	86.6
Aneurin Bevan UHB	78.3	78.1	83.4	81.9	78.0
Betsi Cadwaladr UHB	90.2	90.5	89.5	89.1	88.5
Cardiff and Vale UHB	82.7	83.7	84.0	83.7	83.0
Cwm Taf UHB	90.9	88.7	89.9	90.1	87.3
Hywel Dda UHB	86.0	86.4	86.2	86.3	84.5
Powys Teaching HB	83.0	87.7	86.3	85.1	87.3
<b>Wales</b>	<b>85.1</b>	<b>85.5</b>	<b>86.8</b>	<b>86.2</b>	<b>84.6</b>

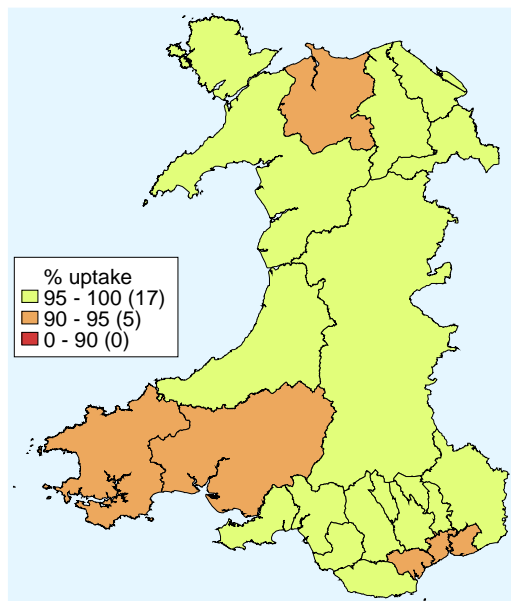
**Figure 4.** Trends in the percentages of children reaching their 4<sup>th</sup> birthday who are up to date with all scheduled vaccines<sup>10</sup>, by Health Board\*.



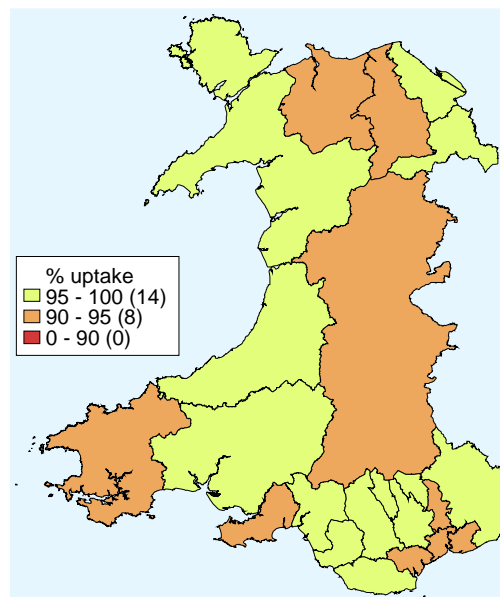
\* Uptake data for quarter 3 2014 to quarter 4 2014 presented here are based on estimates calculated in August 2015, rather than published data, due to data quality problems affecting reported uptake of some immunisations in reports published during this period.

<sup>10</sup> Completed "4 in 1" preschool booster, the Hib/MenC booster and second MMR dose by four years of age. The calculation method for proportions of children up to date with routine immunisation by four years of age was revised during 2014 quarter 1, to remove the pneumococcal conjugate vaccine booster dose, as this is not clinically indicated after two years of age.

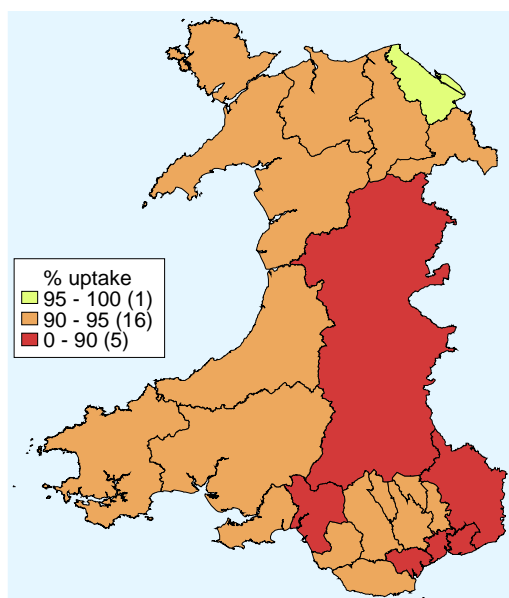
**Figure 5.** Uptake of “5 in 1” vaccine in Welsh Local Authority areas in children reaching their 1<sup>st</sup> birthday between 01/04/16 and 30/06/16.



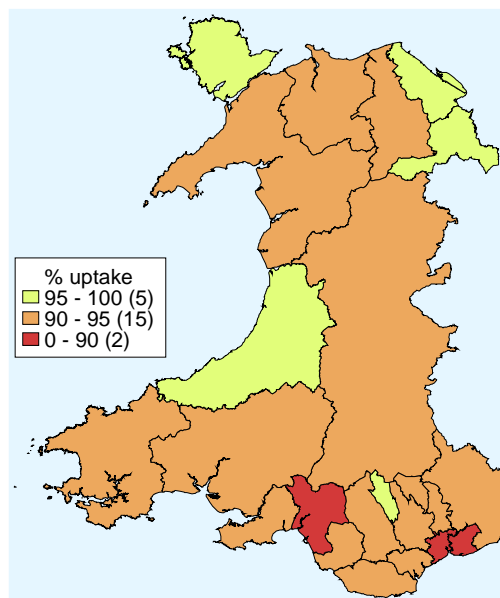
**Figure 6.** Uptake of at least 1 dose of MMR immunisation in Welsh Local Authority areas in children reaching their 2<sup>nd</sup> birthday between 01/04/16 and 30/06/16.



**Figure 7.** Uptake of two doses of MMR vaccine in Welsh Local Authority areas in children reaching their 5<sup>th</sup> birthday between 01/04/16 and 30/06/16.



**Figure 8.** Uptake of “4 in 1” vaccine in Welsh Local Authority areas in children reaching their 5<sup>th</sup> birthday between 01/04/16 and 30/06/16.



**Table 2.** Summary table with uptake of selected immunisations in resident children reaching their 1st, 2nd, 5th and 16th birthday between 01/04/16 and 30/06/16 and resident on 30/06/16.

Area	Age 1 year				Age 2 years				Age 4 years			Age 5 years			Age 16 years				
	Resident children (n)	5 in 1 <sup>1</sup> (n) (%)	MenC <sup>2</sup> (n) (%)	Rotavirus (n) (%)	Resident children (n)	MMR1 (n) (%)	PCV <sup>3</sup> (n) (%)	Hib/MenC (n) (%)	Resident Children (n)	Up to date in schedule <sup>4</sup> (n) (%)	Resident children (n)	MMR2 (n) (%)	4 in 1 <sup>1</sup> (n) (%)	Resident children (n)	MMR1 (n) (%)	MMR2 (n) (%)	3 in 1 Teenage booster <sup>5</sup> (n) (%)		
<b>Abertawe Bro Morgannwg UHB</b>	358	346 96.6	349 97.5	345 96.4	374	361 96.5	362 96.8	359 96.0	399	352 88.2	478	446 93.3	430 90.0	372	357 96.0	330 88.7	318 85.5		
Bridgend LA	382	370 96.9	373 97.6	363 95.0	360	350 97.2	351 97.5	347 96.4	386	331 85.8	394	354 89.8	354 89.8	375	352 93.9	339 90.4	327 87.2		
Neath Port Talbot LA	634	614 96.8	613 96.7	589 92.9	612	580 94.8	581 94.9	577 94.3	673	579 86.0	653	611 93.6	606 92.8	649	605 93.2	562 86.6	566 87.2		
Health Board Total	1374	1330 96.8	1335 97.2	1297 94.4	1346	1291 95.9	1294 96.1	1283 95.3	1458	1262 86.6	1525	1411 92.5	1390 91.1	1396	1314 94.1	1231 88.2	1211 86.7		
<b>Aneurin Bevan UHB</b>	181	177 97.8	178 98.3	165 91.2	181	175 96.7	176 97.2	176 97.2	179	147 82.1	195	179 91.8	179 91.8	173	166 96.0	157 90.8	151 87.3		
Blaenau Gwent LA	493	482 97.8	484 98.2	477 96.8	504	487 96.6	488 96.8	486 96.4	515	410 79.6	501	465 92.8	464 92.6	537	519 96.6	499 92.9	461 85.8		
Caerphilly LA	202	193 95.5	194 96.0	189 93.6	191	187 97.9	187 97.9	187 97.9	240	186 77.5	231	204 88.3	211 91.3	290	255 87.9	239 82.4	216 74.5		
Monmouthshire LA	467	441 94.4	449 96.1	437 93.6	473	445 94.1	445 94.1	439 92.8	488	366 75.0	515	446 86.6	450 87.4	495	454 91.7	417 84.2	378 76.4		
Newport LA	271	267 98.5	267 98.5	256 94.5	239	225 94.1	226 94.6	222 92.9	276	216 78.3	307	282 91.9	278 90.6	254	245 96.5	231 90.9	209 82.3		
Torfaen LA	1614	1560 96.7	1572 97.4	1524 94.4	1588	1519 95.7	1522 95.8	1510 95.1	1698	1325 78.0	1749	1576 90.1	1582 90.5	1749	1639 93.7	1543 88.2	1415 80.9		
Health Board Total	1614	1560 96.7	1572 97.4	1524 94.4	1588	1519 95.7	1522 95.8	1510 95.1	1698	1325 78.0	1749	1576 90.1	1582 90.5	1749	1639 93.7	1543 88.2	1415 80.9		
<b>Betsi Cadwaladr UHB</b>	153	149 97.4	147 96.1	140 91.5	202	195 96.5	197 97.5	195 96.5	207	186 89.9	215	195 90.7	207 96.3	182	174 95.6	165 90.7	153 84.1		
Anglesey LA	278	258 92.8	265 95.3	255 91.7	284	267 94.0	269 94.7	265 93.3	306	266 86.9	301	271 90.0	283 94.0	313	295 94.2	284 90.7	286 91.4		
Conwy LA	277	268 96.8	271 97.8	263 94.9	272	258 94.9	257 94.5	255 93.8	258	229 88.8	285	261 91.6	268 94.0	258	243 94.2	232 89.9	216 83.7		
Denbighshire LA	398	386 97.0	391 98.2	369 92.7	400	389 97.3	391 97.8	386 96.5	419	377 90.0	443	426 96.2	434 98.0	388	371 95.6	356 91.8	341 87.9		
Flintshire LA	278	269 96.8	267 96.0	261 93.9	288	275 95.5	279 96.9	276 95.8	341	286 83.9	341	310 90.9	323 94.7	355	333 93.8	323 91.0	318 89.6		
Gwynedd LA	396	386 97.5	389 98.2	364 91.9	388	381 98.2	383 98.7	380 97.9	411	374 91.0	403	379 94.0	386 95.8	398	370 93.0	357 89.7	339 85.2		
Wrexham LA	1780	1716 96.4	1730 97.2	1652 92.8	1834	1765 96.2	1776 96.8	1757 95.8	1942	1718 88.5	1988	1842 92.7	1901 95.6	1894	1786 94.3	1717 90.7	1653 87.3		
Health Board Total	1780	1716 96.4	1730 97.2	1652 92.8	1834	1765 96.2	1776 96.8	1757 95.8	1942	1718 88.5	1988	1842 92.7	1901 95.6	1894	1786 94.3	1717 90.7	1653 87.3		
<b>Cardiff and Vale UHB</b>	1096	1036 94.5	1046 95.4	1001 91.3	1083	1022 94.4	1025 94.6	1005 92.8	1169	956 81.8	1132	983 86.8	1020 90.1	935	856 91.6	807 86.3	706 75.5		
Cardiff LA	345	332 96.2	334 96.8	328 95.1	324	315 97.2	314 96.9	315 97.2	381	331 86.9	426	389 91.3	394 92.5	359	345 96.1	331 92.2	294 81.9		
Vale of Glamorgan LA	1441	1368 94.9	1380 95.8	1329 92.2	1407	1337 95.0	1339 95.2	1320 93.8	1550	1287 83.0	1558	1372 88.1	1414 90.8	1294	1201 92.8	1138 87.9	1000 77.3		
Health Board Total	1441	1368 94.9	1380 95.8	1329 92.2	1407	1337 95.0	1339 95.2	1320 93.8	1550	1287 83.0	1558	1372 88.1	1414 90.8	1294	1201 92.8	1138 87.9	1000 77.3		
<b>Cwm Taf UHB</b>	183	177 96.7	178 97.3	175 95.6	179	174 97.2	174 97.2	173 96.6	175	161 92.0	181	169 93.4	173 95.6	155	149 96.1	137 88.4	148 95.5		
Merthyr Tydfil LA	678	663 97.8	672 99.1	659 97.2	670	646 96.4	648 96.7	645 96.3	688	592 86.0	713	661 92.7	664 93.1	625	594 95.0	551 88.2	573 91.7		
Rhondda Cynon Taf LA	861	840 97.6	850 98.7	834 96.9	849	820 96.6	822 96.8	818 96.3	863	753 87.3	894	830 92.8	837 93.6	780	743 95.3	688 88.2	721 92.4		
Health Board Total	861	840 97.6	850 98.7	834 96.9	849	820 96.6	822 96.8	818 96.3	863	753 87.3	894	830 92.8	837 93.6	780	743 95.3	688 88.2	721 92.4		
<b>Hywel Dda UHB</b>	456	427 93.6	448 98.2	428 93.9	449	428 95.3	429 95.5	428 95.3	499	410 82.2	496	457 92.1	450 90.7	467	431 92.3	406 86.9	389 83.3		
Carmarthenshire LA	179	171 95.5	171 95.5	161 89.9	136	131 96.3	132 97.1	131 96.3	199	181 91.0	149	139 93.8	143 96.0	164	155 94.5	151 92.1	140 85.4		
Ceredigion LA	292	275 94.2	283 96.9	271 92.8	309	290 93.9	291 94.2	286 92.6	323	272 84.2	300	273 91.0	278 92.7	301	286 95.0	270 89.7	258 85.7		
Pembrokeshire LA	927	873 94.2	902 97.3	860 92.8	894	849 95.0	852 95.3	845 94.5	1021	863 84.5	945	869 92.0	871 92.2	932	872 93.6	827 88.7	787 84.4		
Health Board Total	927	873 94.2	902 97.3	860 92.8	894	849 95.0	852 95.3	845 94.5	1021	863 84.5	945	869 92.0	871 92.2	932	872 93.6	827 88.7	787 84.4		
<b>Powys Teaching UHB</b>	329	320 97.3	320 97.3	312 94.8	284	266 93.7	271 95.4	264 93.0	291	254 87.3	361	313 86.7	331 91.7	347	313 90.2	287 82.7	273 78.7		
Unknown	4	4 100.0	4 100.0	4 100.0	7	7 100.0	7 100.0	7 100.0	16	15 93.8	23	18 78.3	20 87.0	40	37 92.5	34 85.0	33 82.5		
Wales Total	8330	8011 96.2	8093 97.2	7812 93.8	8209	7854 95.7	7883 96.0	7804 95.1	8839	7477 84.6	9043	8231 91.0	8346 92.3	8432	7905 93.8	7465 88.5	7093 84.1		

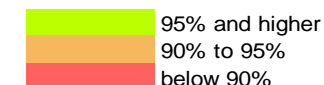
<sup>1</sup> Uptake of pertussis used as proxy

<sup>2</sup> Uptake of a completed one dose primary course of MenC vaccination

<sup>3</sup> Children receiving the final dose of PCV

<sup>4</sup> Completed "4 in 1" preschool booster, the Hib/ MenC booster and second MMR dose by four years of age

<sup>5</sup> Uptake of diphtheria (reinforcing booster dose) used as proxy



**Table 3.** Vaccine uptake in children reaching their 1st birthday between 01/04/16 and 30/06/16 and resident on 30/06/16.

Area	Resident children		D3		T3		P3		Po3		Hib3		MMR1		MenC <sup>1</sup>		Rotavirus		PCV2 <sup>2</sup>		HibMenC	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	
<b><u>Abertawe Bro Morgannwg University HB</u></b>																						
Bridgend LA	358	346	96.6	346	96.6	346	96.6	346	96.6	346	96.6	1	0.3	349	97.5	345	96.4	346	96.6	1	0.3	
Neath Port Talbot LA	382	370	96.9	370	96.9	370	96.9	370	96.9	370	96.9	2	0.5	373	97.6	363	95.0	369	96.6	2	0.5	
Swansea LA	634	614	96.8	614	96.8	614	96.8	613	96.7	614	96.8	5	0.8	613	96.7	589	92.9	607	95.7	5	0.8	
<b>Health Board Total</b>	<b>1374</b>	<b>1330</b>	<b>96.8</b>	<b>1330</b>	<b>96.8</b>	<b>1330</b>	<b>96.8</b>	<b>1329</b>	<b>96.7</b>	<b>1330</b>	<b>96.8</b>	<b>8</b>	<b>0.6</b>	<b>1335</b>	<b>97.2</b>	<b>1297</b>	<b>94.4</b>	<b>1322</b>	<b>96.2</b>	<b>8</b>	<b>0.6</b>	
<b><u>Aneurin Bevan University HB</u></b>																						
Blaenau Gwent LA	181	177	97.8	177	97.8	177	97.8	177	97.8	177	97.8	0	0.0	178	98.3	165	91.2	178	98.3	0	0.0	
Caerphilly LA	493	482	97.8	482	97.8	482	97.8	482	97.8	482	97.8	0	0.0	484	98.2	477	96.8	483	98.0	0	0.0	
Monmouthshire LA	202	193	95.5	193	95.5	193	95.5	193	95.5	193	95.5	0	0.0	194	96.0	189	93.6	193	95.5	0	0.0	
Newport LA	467	441	94.4	441	94.4	441	94.4	441	94.4	440	94.2	0	0.0	449	96.1	437	93.6	441	94.4	0	0.0	
Torfaen LA	271	267	98.5	267	98.5	267	98.5	267	98.5	266	98.2	0	0.0	267	98.5	256	94.5	268	98.9	0	0.0	
<b>Health Board Total</b>	<b>1614</b>	<b>1560</b>	<b>96.7</b>	<b>1560</b>	<b>96.7</b>	<b>1560</b>	<b>96.7</b>	<b>1560</b>	<b>96.7</b>	<b>1558</b>	<b>96.5</b>	<b>0</b>	<b>0.0</b>	<b>1572</b>	<b>97.4</b>	<b>1524</b>	<b>94.4</b>	<b>1563</b>	<b>96.8</b>	<b>0</b>	<b>0.0</b>	
<b><u>Betsi Cadwaladr University HB</u></b>																						
Anglesey LA	153	149	97.4	149	97.4	149	97.4	149	97.4	149	97.4	0	0.0	147	96.1	140	91.5	148	96.7	0	0.0	
Conwy LA	278	258	92.8	258	92.8	258	92.8	258	92.8	258	92.8	2	0.7	265	95.3	255	91.7	260	93.5	2	0.7	
Denbighshire LA	277	268	96.8	268	96.8	268	96.8	268	96.8	268	96.8	1	0.4	271	97.8	263	94.9	268	96.8	1	0.4	
Flintshire LA	398	386	97.0	386	97.0	386	97.0	386	97.0	386	97.0	3	0.8	391	98.2	369	92.7	385	96.7	3	0.8	
Gwynedd LA	278	269	96.8	269	96.8	269	96.8	269	96.8	269	96.8	0	0.0	267	96.0	261	93.9	266	95.7	0	0.0	
Wrexham LA	396	386	97.5	386	97.5	386	97.5	386	97.5	386	97.5	0	0.0	389	98.2	364	91.9	388	98.0	0	0.0	
<b>Health Board Total</b>	<b>1780</b>	<b>1716</b>	<b>96.4</b>	<b>1716</b>	<b>96.4</b>	<b>1716</b>	<b>96.4</b>	<b>1716</b>	<b>96.4</b>	<b>1716</b>	<b>96.4</b>	<b>6</b>	<b>0.3</b>	<b>1730</b>	<b>97.2</b>	<b>1652</b>	<b>92.8</b>	<b>1715</b>	<b>96.3</b>	<b>6</b>	<b>0.3</b>	
<b><u>Cardiff and Vale University HB</u></b>																						
Cardiff LA	1096	1036	94.5	1036	94.5	1036	94.5	1036	94.5	1036	94.5	12	1.1	1046	95.4	1001	91.3	1033	94.3	8	0.7	
Vale of Glamorgan LA	345	332	96.2	332	96.2	332	96.2	332	96.2	332	96.2	0	0.0	334	96.8	328	95.1	332	96.2	2	0.6	
<b>Health Board Total</b>	<b>1441</b>	<b>1368</b>	<b>94.9</b>	<b>1368</b>	<b>94.9</b>	<b>1368</b>	<b>94.9</b>	<b>1368</b>	<b>94.9</b>	<b>1368</b>	<b>94.9</b>	<b>12</b>	<b>0.8</b>	<b>1380</b>	<b>95.8</b>	<b>1329</b>	<b>92.2</b>	<b>1365</b>	<b>94.7</b>	<b>10</b>	<b>0.7</b>	
<b><u>Cwm Taf University HB</u></b>																						
Merthyr Tydfil LA	183	177	96.7	177	96.7	177	96.7	177	96.7	177	96.7	0	0.0	178	97.3	175	95.6	176	96.2	0	0.0	
Rhondda Cynon Taf LA	678	663	97.8	663	97.8	663	97.8	663	97.8	663	97.8	0	0.0	672	99.1	659	97.2	663	97.8	0	0.0	
<b>Health Board Total</b>	<b>861</b>	<b>840</b>	<b>97.6</b>	<b>840</b>	<b>97.6</b>	<b>840</b>	<b>97.6</b>	<b>840</b>	<b>97.6</b>	<b>840</b>	<b>97.6</b>	<b>0</b>	<b>0.0</b>	<b>850</b>	<b>98.7</b>	<b>834</b>	<b>96.9</b>	<b>839</b>	<b>97.4</b>	<b>0</b>	<b>0.0</b>	
<b><u>Hywel Dda University HB</u></b>																						
Carmarthenshire LA	456	427	93.6	427	93.6	427	93.6	427	93.6	427	93.6	1	0.2	448	98.2	428	93.9	430	94.3	1	0.2	
Ceredigion LA	179	171	95.5	171	95.5	171	95.5	171	95.5	171	95.5	1	0.6	171	95.5	161	89.9	171	95.5	1	0.6	
Pembrokeshire LA	292	275	94.2	275	94.2	275	94.2	275	94.2	275	94.2	0	0.0	283	96.9	271	92.8	276	94.5	0	0.0	
<b>Health Board Total</b>	<b>927</b>	<b>873</b>	<b>94.2</b>	<b>873</b>	<b>94.2</b>	<b>873</b>	<b>94.2</b>	<b>873</b>	<b>94.2</b>	<b>873</b>	<b>94.2</b>	<b>2</b>	<b>0.2</b>	<b>902</b>	<b>97.3</b>	<b>860</b>	<b>92.8</b>	<b>877</b>	<b>94.6</b>	<b>2</b>	<b>0.2</b>	
<b><u>Powys Teaching HB</u></b>																						
Unknown	4	4	100.0	4	100.0	4	100.0	4	100.0	4	100.0	0	0.0	4	100.0	4	100.0	4	100.0	0	0.0	
<b>Wales Total</b>	<b>8330</b>	<b>8011</b>	<b>96.2</b>	<b>8011</b>	<b>96.2</b>	<b>8011</b>	<b>96.2</b>	<b>8010</b>	<b>96.2</b>	<b>8009</b>	<b>96.1</b>	<b>30</b>	<b>0.4</b>	<b>8093</b>	<b>97.2</b>	<b>7812</b>	<b>93.8</b>	<b>8004</b>	<b>96.1</b>	<b>27</b>	<b>0.3</b>	

<sup>1</sup> Uptake of a completed one dose primary course of MenC vaccination.

<sup>2</sup> Full primary two dose course of pneumococcal conjugate vaccine.

**Table 4.** Vaccine uptake in children reaching their 2nd birthday between 01/04/16 and 30/06/16 and resident on 30/06/16.

Area	Resident children	D3	T3	P3	Po3	Hib3	MMR1	MenC <sup>1</sup>	PCV2 <sup>2</sup>	PCVf <sup>3</sup>	HibMenC
	(n)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)
<b>Abertawe Bro Morgannwg University HB</b>											
Bridgend LA	374	368 98.4	368 98.4	368 98.4	368 98.4	368 98.4	361 96.5	369 98.7	363 97.1	362 96.8	359 96.0
Neath Port Talbot LA	360	356 98.9	356 98.9	356 98.9	356 98.9	355 98.6	350 97.2	353 98.1	351 97.5	351 97.5	347 96.4
Swansea LA	612	600 98.0	600 98.0	600 98.0	600 98.0	599 97.9	580 94.8	603 98.5	592 96.7	581 94.9	577 94.3
<b>Health Board Total</b>	<b>1346</b>	<b>1324 98.4</b>	<b>1324 98.4</b>	<b>1324 98.4</b>	<b>1324 98.4</b>	<b>1322 98.2</b>	<b>1291 95.9</b>	<b>1325 98.4</b>	<b>1306 97.0</b>	<b>1294 96.1</b>	<b>1283 95.3</b>
<b>Aneurin Bevan University HB</b>											
Blaenau Gwent LA	181	176 97.2	176 97.2	176 97.2	176 97.2	176 97.2	175 96.7	176 97.2	176 97.2	176 97.2	176 97.2
Caerphilly LA	504	498 98.8	498 98.8	498 98.8	498 98.8	498 98.8	487 96.6	500 99.2	495 98.2	488 96.8	486 96.4
Monmouthshire LA	191	190 99.5	190 99.5	190 99.5	190 99.5	190 99.5	187 97.9	185 96.9	189 99.0	187 97.9	187 97.9
Newport LA	473	462 97.7	462 97.7	462 97.7	462 97.7	462 97.7	445 94.1	460 97.3	454 96.0	445 94.1	439 92.8
Torfaen LA	239	234 97.9	234 97.9	234 97.9	234 97.9	234 97.9	225 94.1	234 97.9	229 95.8	226 94.6	222 92.9
<b>Health Board Total</b>	<b>1588</b>	<b>1560 98.2</b>	<b>1560 98.2</b>	<b>1560 98.2</b>	<b>1560 98.2</b>	<b>1560 98.2</b>	<b>1519 95.7</b>	<b>1555 97.9</b>	<b>1543 97.2</b>	<b>1522 95.8</b>	<b>1510 95.1</b>
<b>Betsi Cadwaladr University HB</b>											
Anglesey LA	202	198 98.0	198 98.0	198 98.0	198 98.0	198 98.0	195 96.5	197 97.5	195 96.5	197 97.5	195 96.5
Conwy LA	284	276 97.2	276 97.2	276 97.2	276 97.2	276 97.2	267 94.0	278 97.9	272 95.8	269 94.7	265 93.3
Denbighshire LA	272	265 97.4	265 97.4	265 97.4	265 97.4	265 97.4	258 94.9	266 97.8	259 95.2	257 94.5	255 93.8
Flintshire LA	400	394 98.5	394 98.5	394 98.5	394 98.5	394 98.5	389 97.3	394 98.5	390 97.5	391 97.8	386 96.5
Gwynedd LA	288	281 97.6	281 97.6	280 97.2	281 97.6	280 97.2	275 95.5	273 94.8	274 95.1	279 96.9	276 95.8
Wrexham LA	388	383 98.7	383 98.7	383 98.7	383 98.7	383 98.7	381 98.2	382 98.5	379 97.7	383 98.7	380 97.9
<b>Health Board Total</b>	<b>1834</b>	<b>1797 98.0</b>	<b>1797 98.0</b>	<b>1796 97.9</b>	<b>1797 98.0</b>	<b>1796 97.9</b>	<b>1765 96.2</b>	<b>1790 97.6</b>	<b>1769 96.5</b>	<b>1776 96.8</b>	<b>1757 95.8</b>
<b>Cardiff and Vale University HB</b>											
Cardiff LA	1083	1042 96.2	1042 96.2	1042 96.2	1042 96.2	1042 96.2	1039 95.9	1022 94.4	1025 94.6	1020 94.2	1005 92.8
Vale of Glamorgan LA	324	319 98.5	319 98.5	319 98.5	319 98.5	319 98.5	315 97.2	315 97.2	316 97.5	314 96.9	315 97.2
<b>Health Board Total</b>	<b>1407</b>	<b>1361 96.7</b>	<b>1361 96.7</b>	<b>1361 96.7</b>	<b>1361 96.7</b>	<b>1361 96.7</b>	<b>1358 96.5</b>	<b>1337 95.0</b>	<b>1340 95.2</b>	<b>1336 95.0</b>	<b>1320 93.8</b>
<b>Cwm Taf University HB</b>											
Merthyr Tydfil LA	179	177 98.9	177 98.9	177 98.9	177 98.9	177 98.9	174 97.2	178 99.4	176 98.3	174 97.2	173 96.6
Rhondda Cynon Taf LA	670	664 99.1	664 99.1	664 99.1	663 99.0	662 98.8	646 96.4	662 98.8	658 98.2	648 96.7	645 96.3
<b>Health Board Total</b>	<b>849</b>	<b>841 99.1</b>	<b>841 99.1</b>	<b>841 99.1</b>	<b>840 98.9</b>	<b>839 98.8</b>	<b>820 96.6</b>	<b>840 98.9</b>	<b>834 98.2</b>	<b>822 96.8</b>	<b>818 96.3</b>
<b>Hywel Dda University HB</b>											
Carmarthenshire LA	449	440 98.0	440 98.0	440 98.0	438 97.6	440 98.0	428 95.3	438 97.6	432 96.2	429 95.5	428 95.3
Ceredigion LA	136	133 97.8	133 97.8	133 97.8	133 97.8	133 97.8	131 96.3	134 98.5	133 97.8	132 97.1	131 96.3
Pembrokeshire LA	309	299 96.8	299 96.8	299 96.8	299 96.8	299 96.8	290 93.9	297 96.1	294 95.1	291 94.2	286 92.6
<b>Health Board Total</b>	<b>894</b>	<b>872 97.5</b>	<b>872 97.5</b>	<b>872 97.5</b>	<b>870 97.3</b>	<b>872 97.5</b>	<b>849 95.0</b>	<b>869 97.2</b>	<b>859 96.1</b>	<b>852 95.3</b>	<b>845 94.5</b>
<b>Powys Teaching HB</b>											
Unknown	7	7 100.0	7 100.0	7 100.0	7 100.0	7 100.0	7 100.0	6 85.7	7 100.0	7 100.0	7 100.0
<b>Wales Total</b>	<b>8209</b>	<b>8037 97.9</b>	<b>8037 97.9</b>	<b>8036 97.9</b>	<b>8034 97.9</b>	<b>8028 97.8</b>	<b>7854 95.7</b>	<b>7998 97.4</b>	<b>7919 96.5</b>	<b>7883 96.0</b>	<b>7804 95.1</b>

<sup>1</sup> Uptake of a completed one dose primary course of MenC vaccination.

<sup>2</sup> Full primary two dose course of pneumococcal conjugate vaccine.

<sup>3</sup> Final (booster) dose of pneumococcal conjugate vaccine.

**Table 5.** Vaccine uptake in children reaching their 4th birthday between 01/04/16 and 30/06/16 and resident on 30/06/16. The proportion of children who have received all of these vaccines by their 4<sup>th</sup> birthday is also presented.

Area	Resident children (n)	4 in 1 Preschool Booster <sup>1</sup>		HibMenC		MMR dose 2		Up to date in schedule <sup>2</sup>	
		(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
<b>Abertawe Bro Morgannwg University HB</b>									
Bridgend LA	399	360	90.2	378	94.7	367	92.0	352	88.2
Neath Port Talbot LA	386	342	88.6	365	94.6	353	91.5	331	85.8
Swansea LA	673	601	89.3	631	93.8	610	90.6	579	86.0
<b>Health Board Total</b>	<b>1458</b>	<b>1303</b>	<b>89.4</b>	<b>1374</b>	<b>94.2</b>	<b>1330</b>	<b>91.2</b>	<b>1262</b>	<b>86.6</b>
<b>Aneurin Bevan University HB</b>									
Blaenau Gwent LA	179	150	83.8	173	96.6	149	83.2	147	82.1
Caerphilly LA	515	418	81.2	491	95.3	420	81.6	410	79.6
Monmouthshire LA	240	202	84.2	217	90.4	191	79.6	186	77.5
Newport LA	488	380	77.9	456	93.4	377	77.3	366	75.0
Torfaen LA	276	220	79.7	269	97.5	219	79.3	216	78.3
<b>Health Board Total</b>	<b>1698</b>	<b>1370</b>	<b>80.7</b>	<b>1606</b>	<b>94.6</b>	<b>1356</b>	<b>79.9</b>	<b>1325</b>	<b>78.0</b>
<b>Betsi Cadwaladr University HB</b>									
Anglesey LA	207	194	93.7	198	95.7	189	91.3	186	89.9
Conwy LA	306	273	89.2	293	95.8	269	87.9	266	86.9
Denbighshire LA	258	234	90.7	242	93.8	230	89.1	229	88.8
Flintshire LA	419	394	94.0	392	93.6	381	90.9	377	90.0
Gwynedd LA	341	298	87.4	318	93.3	289	84.8	286	83.9
Wrexham LA	411	382	92.9	396	96.4	378	92.0	374	91.0
<b>Health Board Total</b>	<b>1942</b>	<b>1775</b>	<b>91.4</b>	<b>1839</b>	<b>94.7</b>	<b>1736</b>	<b>89.4</b>	<b>1718</b>	<b>88.5</b>
<b>Cardiff and Vale University HB</b>									
Cardiff LA	1169	1022	87.4	1066	91.2	989	84.6	956	81.8
Vale of Glamorgan LA	381	340	89.2	366	96.1	335	87.9	331	86.9
<b>Health Board Total</b>	<b>1550</b>	<b>1362</b>	<b>87.9</b>	<b>1432</b>	<b>92.4</b>	<b>1324</b>	<b>85.4</b>	<b>1287</b>	<b>83.0</b>
<b>Cwm Taf University HB</b>									
Merthyr Tydfil LA	175	165	94.3	168	96.0	161	92.0	161	92.0
Rhondda Cynon Taf LA	688	610	88.7	659	95.8	601	87.4	592	86.0
<b>Health Board Total</b>	<b>863</b>	<b>775</b>	<b>89.8</b>	<b>827</b>	<b>95.8</b>	<b>762</b>	<b>88.3</b>	<b>753</b>	<b>87.3</b>
<b>Hywel Dda University HB</b>									
Carmarthenshire LA	499	426	85.4	461	92.4	426	85.4	410	82.2
Ceredigion LA	199	185	93.0	190	95.5	183	92.0	181	91.0
Pembrokeshire LA	323	287	88.9	298	92.3	278	86.1	272	84.2
<b>Health Board Total</b>	<b>1021</b>	<b>898</b>	<b>88.0</b>	<b>949</b>	<b>92.9</b>	<b>887</b>	<b>86.9</b>	<b>863</b>	<b>84.5</b>
<b>Powys Teaching HB</b>	<b>291</b>	<b>270</b>	<b>92.8</b>	<b>266</b>	<b>91.4</b>	<b>259</b>	<b>89.0</b>	<b>254</b>	<b>87.3</b>
Unknown	16	15	93.8	16	100.0	15	93.8	15	93.8
<b>Wales Total</b>	<b>8839</b>	<b>7768</b>	<b>87.9</b>	<b>8309</b>	<b>94.0</b>	<b>7669</b>	<b>86.8</b>	<b>7477</b>	<b>84.6</b>

<sup>1</sup> Uptake of acellular pertussis used as proxy

<sup>2</sup> Completed "4 in 1" preschool booster, the Hib/ MenC booster and second MMR dose by four years of age.

**Table 6.** Vaccine uptake in children reaching their 5th birthday between 01/04/16 and 30/06/16 and resident on 30/06/16. The proportion of children who have received all of these vaccines by their 5<sup>th</sup> birthday is also presented.

Area	Resident children	4 in 1 Preschool Booster <sup>1</sup>		HibMenCb		MMR dose 2		Up to date in schedule <sup>2</sup>	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
<b><u>Abertawe Bro Morgannwg University HB</u></b>									
Bridgend LA	478	430	90.0	456	95.4	446	93.3	420	87.9
Neath Port Talbot LA	394	354	89.8	369	93.7	354	89.8	341	86.5
Swansea LA	653	606	92.8	614	94.0	611	93.6	585	89.6
<b>Health Board Total</b>	<b>1525</b>	<b>1390</b>	<b>91.1</b>	<b>1439</b>	<b>94.4</b>	<b>1411</b>	<b>92.5</b>	<b>1346</b>	<b>88.3</b>
<b><u>Aneurin Bevan University HB</u></b>									
Blaenau Gwent LA	195	179	91.8	187	95.9	179	91.8	177	90.8
Caerphilly LA	501	464	92.6	482	96.2	465	92.8	453	90.4
Monmouthshire LA	231	211	91.3	208	90.0	204	88.3	199	86.1
Newport LA	515	450	87.4	472	91.7	446	86.6	423	82.1
Torfaen LA	307	278	90.6	299	97.4	282	91.9	275	89.6
<b>Health Board Total</b>	<b>1749</b>	<b>1582</b>	<b>90.5</b>	<b>1648</b>	<b>94.2</b>	<b>1576</b>	<b>90.1</b>	<b>1527</b>	<b>87.3</b>
<b><u>Betsi Cadwaladr University HB</u></b>									
Anglesey LA	215	207	96.3	197	91.6	195	90.7	193	89.8
Conwy LA	301	283	94.0	281	93.4	271	90.0	269	89.4
Denbighshire LA	285	268	94.0	266	93.3	261	91.6	257	90.2
Flintshire LA	443	434	98.0	424	95.7	426	96.2	420	94.8
Gwynedd LA	341	323	94.7	314	92.1	310	90.9	303	88.9
Wrexham LA	403	386	95.8	382	94.8	379	94.0	371	92.1
<b>Health Board Total</b>	<b>1988</b>	<b>1901</b>	<b>95.6</b>	<b>1864</b>	<b>93.8</b>	<b>1842</b>	<b>92.7</b>	<b>1813</b>	<b>91.2</b>
<b><u>Cardiff and Vale University HB</u></b>									
Cardiff LA	1132	1020	90.1	1016	89.8	983	86.8	945	83.5
Vale of Glamorgan LA	426	394	92.5	402	94.4	389	91.3	383	89.9
<b>Health Board Total</b>	<b>1558</b>	<b>1414</b>	<b>90.8</b>	<b>1418</b>	<b>91.0</b>	<b>1372</b>	<b>88.1</b>	<b>1328</b>	<b>85.2</b>
<b><u>Cwm Taf University HB</u></b>									
Merthyr Tydfil LA	181	173	95.6	173	95.6	169	93.4	168	92.8
Rhondda Cynon Taf LA	713	664	93.1	688	96.5	661	92.7	648	90.9
<b>Health Board Total</b>	<b>894</b>	<b>837</b>	<b>93.6</b>	<b>861</b>	<b>96.3</b>	<b>830</b>	<b>92.8</b>	<b>816</b>	<b>91.3</b>
<b><u>Hywel Dda University HB</u></b>									
Carmarthenshire LA	496	450	90.7	469	94.6	457	92.1	438	88.3
Ceredigion LA	149	143	96.0	139	93.3	139	93.3	136	91.3
Pembrokeshire LA	300	278	92.7	280	93.3	273	91.0	268	89.3
<b>Health Board Total</b>	<b>945</b>	<b>871</b>	<b>92.2</b>	<b>888</b>	<b>94.0</b>	<b>869</b>	<b>92.0</b>	<b>842</b>	<b>89.1</b>
<b><u>Powys Teaching HB</u></b>	<b>361</b>	<b>331</b>	<b>91.7</b>	<b>323</b>	<b>89.5</b>	<b>313</b>	<b>86.7</b>	<b>304</b>	<b>84.2</b>
Unknown	23	20	87.0	18	78.3	18	78.3	18	78.3
<b>Wales Total</b>	<b>9043</b>	<b>8346</b>	<b>92.3</b>	<b>8459</b>	<b>93.5</b>	<b>8231</b>	<b>91.0</b>	<b>7994</b>	<b>88.4</b>

<sup>1</sup> Uptake of acellular pertussis used as proxy

<sup>2</sup> Completed "4 in 1" preschool booster, the Hib/ MenC booster and second MMR dose by four years of age.

**Table 7.** Vaccine uptake in children reaching their 5th birthday between 01/04/16 and 30/06/16 and resident on 30/06/16.

Area	Resident children	D3		T3		P3		Po3		Hib3		MenC <sup>1</sup>		PCVr <sup>2</sup>		HibMenC		MMR1		MMR2		D4		T4		aP		Po4			
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)		
<b>Abertawe Bro Morgannwg University HE</b>																															
Bridgend LA	478	463	96.9	463	96.9	463	96.9	463	96.9	463	96.9	455	95.2	455	95.2	456	95.4	467	97.7	446	93.3	430	90.0	430	90.0	430	90.0	430	90.0	430	90.0
Neath Port Talbot LA	394	384	97.5	384	97.5	384	97.5	384	97.5	384	97.5	373	94.7	364	92.4	369	93.7	381	96.7	354	89.8	354	89.8	354	89.8	354	89.8	354	89.8	354	89.8
Swansea LA	653	627	96.0	627	96.0	627	96.0	626	95.9	626	95.9	615	94.2	613	93.9	614	94.0	633	96.9	611	93.6	606	92.8	606	92.8	606	92.8	606	92.8	606	92.8
<b>Health Board Total</b>	<b>1525</b>	<b>1474</b>	<b>96.7</b>	<b>1474</b>	<b>96.7</b>	<b>1474</b>	<b>96.7</b>	<b>1473</b>	<b>96.6</b>	<b>1473</b>	<b>96.6</b>	<b>1443</b>	<b>94.6</b>	<b>1432</b>	<b>93.9</b>	<b>1439</b>	<b>94.4</b>	<b>1481</b>	<b>97.1</b>	<b>1411</b>	<b>92.5</b>	<b>1390</b>	<b>91.1</b>	<b>1390</b>	<b>91.1</b>	<b>1390</b>	<b>91.1</b>	<b>1390</b>	<b>91.1</b>	<b>1390</b>	<b>91.1</b>
<b>Aneurin Bevan University HB</b>																															
Blaenau Gwent LA	195	192	98.5	192	98.5	192	98.5	191	97.9	191	97.9	189	96.9	187	95.9	187	95.9	188	96.4	179	91.8	179	91.8	179	91.8	179	91.8	179	91.8	179	91.8
Caerphilly LA	501	491	98.0	491	98.0	491	98.0	491	98.0	491	98.0	487	97.2	481	96.0	482	96.2	491	98.0	465	92.8	464	92.6	464	92.6	464	92.6	464	92.6	464	92.6
Monmouthshire LA	231	213	92.2	213	92.2	213	92.2	213	92.2	213	92.2	209	90.5	210	90.9	208	90.0	222	96.1	204	88.3	211	91.3	211	91.3	211	91.3	211	91.3	211	91.3
Newport LA	515	490	95.1	490	95.1	490	95.1	490	95.1	490	95.1	473	91.8	472	91.7	472	91.7	496	96.3	446	86.6	450	87.4	450	87.4	450	87.4	450	87.4	450	87.4
Torfaen LA	307	304	99.0	304	99.0	304	99.0	304	99.0	304	99.0	302	98.4	297	96.7	299	97.4	303	98.7	282	91.9	278	90.6	278	90.6	278	90.6	278	90.6	278	90.6
<b>Health Board Total</b>	<b>1749</b>	<b>1690</b>	<b>96.6</b>	<b>1690</b>	<b>96.6</b>	<b>1690</b>	<b>96.6</b>	<b>1689</b>	<b>96.6</b>	<b>1689</b>	<b>96.6</b>	<b>1660</b>	<b>94.9</b>	<b>1647</b>	<b>94.2</b>	<b>1648</b>	<b>94.2</b>	<b>1700</b>	<b>97.2</b>	<b>1576</b>	<b>90.1</b>	<b>1582</b>	<b>90.5</b>	<b>1582</b>	<b>90.5</b>	<b>1582</b>	<b>90.5</b>	<b>1582</b>	<b>90.5</b>	<b>1582</b>	<b>90.5</b>
<b>Betsi Cadwaladr University HB</b>																															
Anglesey LA	215	201	93.5	201	93.5	201	93.5	201	93.5	201	93.5	200	93.0	198	92.1	197	91.6	208	96.7	195	90.7	207	96.3	207	96.3	207	96.3	207	96.3	207	96.3
Conwy LA	301	285	94.7	285	94.7	285	94.7	284	94.4	285	94.7	279	92.7	279	92.7	281	93.4	291	96.7	271	90.0	283	94.0	283	94.0	283	94.0	283	94.0	283	94.0
Denbighshire LA	285	273	95.8	273	95.8	273	95.8	273	95.8	273	95.8	265	93.0	268	94.0	266	93.3	276	96.8	261	91.6	268	94.0	268	94.0	268	94.0	268	94.0	268	94.0
Flintshire LA	443	427	96.4	427	96.4	427	96.4	425	95.9	425	95.9	422	95.3	425	95.9	424	95.7	435	98.2	426	96.2	434	98.0	434	98.0	434	98.0	434	98.0	434	98.0
Gwynedd LA	341	317	93.0	317	93.0	317	93.0	317	93.0	317	93.0	307	90.0	312	91.5	314	92.1	324	95.0	310	90.9	323	94.7	323	94.7	323	94.7	323	94.7	323	94.7
Wrexham LA	403	388	96.3	388	96.3	388	96.3	387	96.0	387	96.0	376	93.3	377	93.5	382	94.8	394	97.8	379	94.0	386	95.8	386	95.8	386	95.8	386	95.8	386	95.8
<b>Health Board Total</b>	<b>1988</b>	<b>1891</b>	<b>95.1</b>	<b>1891</b>	<b>95.1</b>	<b>1891</b>	<b>95.1</b>	<b>1887</b>	<b>94.9</b>	<b>1888</b>	<b>95.0</b>	<b>1849</b>	<b>93.0</b>	<b>1859</b>	<b>93.5</b>	<b>1864</b>	<b>93.8</b>	<b>1928</b>	<b>97.0</b>	<b>1842</b>	<b>92.7</b>	<b>1901</b>	<b>95.6</b>	<b>1901</b>	<b>95.6</b>	<b>1901</b>	<b>95.6</b>	<b>1901</b>	<b>95.6</b>	<b>1901</b>	<b>95.6</b>
<b>Cardiff and Vale University HB</b>																															
Cardiff LA	1132	1069	94.4	1069	94.4	1069	94.4	1069	94.4	1067	94.3	1016	89.8	1018	89.9	1016	89.8	1085	95.8	983	86.8	1020	90.1	1020	90.1	1020	90.1	1020	90.1	1020	90.1
Vale of Glamorgan LA	426	410	96.2	410	96.2	410	96.2	410	96.2	410	96.2	405	95.1	403	94.6	402	94.4	415	97.4	389	91.3	394	92.5	394	92.5	394	92.5	394	92.5	394	92.5
<b>Health Board Total</b>	<b>1558</b>	<b>1479</b>	<b>94.9</b>	<b>1479</b>	<b>94.9</b>	<b>1479</b>	<b>94.9</b>	<b>1479</b>	<b>94.9</b>	<b>1477</b>	<b>94.8</b>	<b>1421</b>	<b>91.2</b>	<b>1421</b>	<b>91.2</b>	<b>1418</b>	<b>91.0</b>	<b>1500</b>	<b>96.3</b>	<b>1372</b>	<b>88.1</b>	<b>1414</b>	<b>90.8</b>	<b>1414</b>	<b>90.8</b>	<b>1414</b>	<b>90.8</b>	<b>1414</b>	<b>90.8</b>	<b>1414</b>	<b>90.8</b>
<b>Cwm Taf University HB</b>																															
Merthyr Tydfil LA	181	175	96.7	175	96.7	175	96.7	175	96.7	175	96.7	172	95.0	173	95.6	173	95.6	178	98.3	169	93.4	173	95.6	173	95.6	173	95.6	173	95.6	173	95.6
Rhondda Cynon Taf LA	713	701	98.3	701	98.3	701	98.3	702	98.5	701	98.3	695	97.5	695	97.5	688	96.5	697	97.8	661	92.7	664	93.1	664	93.1	664	93.1	664	93.1	664	93.1
<b>Health Board Total</b>	<b>894</b>	<b>876</b>	<b>98.0</b>	<b>876</b>	<b>98.0</b>	<b>876</b>	<b>98.0</b>	<b>877</b>	<b>98.1</b>	<b>876</b>	<b>98.0</b>	<b>867</b>	<b>97.0</b>	<b>868</b>	<b>97.1</b>	<b>861</b>	<b>96.3</b>	<b>875</b>	<b>97.9</b>	<b>830</b>	<b>92.8</b>	<b>837</b>	<b>93.6</b>	<b>837</b>	<b>93.6</b>	<b>837</b>	<b>93.6</b>	<b>837</b>	<b>93.6</b>	<b>837</b>	<b>93.6</b>
<b>Hywel Dda University HB</b>																															
Carmarthenshire LA	496	482	97.2	482	97.2	482	97.2	481	97.0	480	96.8	473	95.4	473	95.4	469	94.6	488	98.4	457	92.1	450	90.7	450	90.7	450	90.7	450	90.7	450	90.7
Ceredigion LA	149	142	95.3	142	95.3	142	95.3	141	94.6	142	95.3	138	92.6	138	92.6	139	93.3	143	96.0	139	93.3	143	96.0	143	96.0	143	96.0	143	96.0	143	96.0
Pembrokeshire LA	300	282	94.0	282	94.0	282	94.0	282	94.0	282	94.0	277	92.3	279	93.0	280	93.3	291	97.0	273	91.0	278	92.7	278	92.7	278	92.7	278	92.7	278	92.7
<b>Health Board Total</b>	<b>945</b>	<b>906</b>	<b>95.9</b>	<b>906</b>	<b>95.9</b>	<b>906</b>	<b>95.9</b>	<b>904</b>	<b>95.7</b>	<b>904</b>	<b>95.7</b>	<b>888</b>	<b>94.0</b>	<b>890</b>	<b>94.2</b>	<b>888</b>	<b>94.0</b>	<b>922</b>	<b>97.6</b>	<b>869</b>	<b>92.0</b>	<b>871</b>	<b>92.2</b>	<b>871</b>	<b>92.2</b>	<b>871</b>	<b>92.2</b>	<b>871</b>	<b>92.2</b>	<b>871</b>	<b>92.2</b>
<b>Powys Teaching HB</b>	<b>361</b>	<b>337</b>	<b>93.4</b>	<b>337</b>	<b>93.4</b>	<b>337</b>	<b>93.4</b>	<b>337</b>	<b>93.4</b>	<b>336</b>	<b>93.1</b>	<b>328</b>	<b>90.9</b>	<b>326</b>	<b>90.3</b>	<b>323</b>	<b>89.5</b>	<b>347</b>	<b>96.1</b>	<b>313</b>	<b>86.7</b>	<b>331</b>	<b>91.7</b>	<b>331</b>	<b>91.7</b>	<b>331</b>	<b>91.7</b>	<b>331</b>	<b>91.7</b>	<b>331</b>	<b>91.7</b>
Unknown	23	18	78.3	18	78.3	18	78.3	18	78.3	18	78.3	18	78.3	18	78.3	18	78.3	20	87.0	18	78.3	20	87.0	20	87.0	20	87.0	20	87.0	20	87.0
<b>Wales Total</b>	<b>9043</b>	<b>8671</b>	<b>95.9</b>	<b>8671</b>	<b>95.9</b>	<b>8671</b>	<b>95.9</b>	<b>8664</b>	<b>95.8</b>	<b>8661</b>	<b>95.8</b>	<b>8474</b>	<b>93.7</b>	<b>8461</b>	<b>93.6</b>	<b>8459</b>	<b>93.5</b>	<b>8773</b>	<b>97.0</b>	<b>8231</b>	<b>91.0</b>	<b>8346</b>	<b>92.3</b>	<b>8346</b>	<b>92.3</b>	<b>8346</b>	<b>92.3</b>	<b>8346</b>	<b>92.3</b>	<b>8346</b>	<b>92.3</b>

<sup>1</sup> Completed three dose course, or two doses with the second delivered after 115 days of age

<sup>2</sup> Final (booster) dose of pneumococcal conjugate vaccine

**Table 8.** Uptake of HPV vaccine in girls reaching 13,14 and 15 years of age between 01/09/15 and 31/08/16 and resident on 30/06/16.

Area	13 years (2015-16 School Year 8) <sup>1</sup>			14 years (2015-16 School Year 9) <sup>1,2</sup>				15 years (2015-16 School Year 10)					
	Resident girls (n)	HPV 1 dose (n) (%)		Resident girls (n)	HPV 1 dose (n) (%)	HPV 2 dose (n) (%)		Resident girls (n)	HPV 1 dose (n) (%)	HPV 2 dose (n) (%)	HPV 3 dose (n) (%)		
<b>Abertawe Bro Morgannwg University HB</b>													
Bridgend LA	773	710 91.8		744	695 93.4	622 83.6		848	784 92.5	773 91.2	715 84.3		
Neath Port Talbot LA	711	630 88.6		716	678 94.7	603 84.2		726	681 93.8	672 92.6	642 88.4		
Swansea LA	1240	1086 87.6		1222	1152 94.3	1044 85.4		1284	1179 91.8	1161 90.4	1100 85.7		
<b>Health Board Total</b>	<b>2724</b>	<b>2426 89.1</b>		<b>2682</b>	<b>2525 94.1</b>	<b>2269 84.6</b>		<b>2858</b>	<b>2644 92.5</b>	<b>2606 91.2</b>	<b>2457 86.0</b>		
<b>Aneurin Bevan University HB</b>													
Blaenau Gwent LA	322	278 86.3		372	352 94.6	308 82.8		363	348 95.9	344 94.8	319 87.9		
Caerphilly LA	986	795 80.6		948	891 94.0	789 83.2		960	899 93.6	896 93.3	856 89.2		
Monmouthshire LA	532	407 76.5		506	409 80.8	366 72.3		517	407 78.7	398 77.0	377 72.9		
Newport LA	902	716 79.4		922	791 85.8	709 76.9		859	732 85.2	726 84.5	680 79.2		
Torfaen LA	474	403 85.0		493	451 91.5	401 81.3		516	480 93.0	474 91.9	452 87.6		
<b>Health Board Total</b>	<b>3216</b>	<b>2599 80.8</b>		<b>3241</b>	<b>2894 89.3</b>	<b>2573 79.4</b>		<b>3215</b>	<b>2866 89.1</b>	<b>2838 88.3</b>	<b>2684 83.5</b>		
<b>Betsi Cadwaladr University HB</b>													
Anglesey LA	344	296 86.0		353	321 90.9	282 79.9		355	323 91.0	317 89.3	303 85.4		
Conwy LA	541	391 72.3		539	488 90.5	439 81.4		629	566 90.0	563 89.5	545 86.6		
Denbighshire LA	468	377 80.6		479	426 88.9	385 80.4		545	482 88.4	483 88.6	473 86.8		
Flintshire LA	734	634 86.4		791	733 92.7	660 83.4		799	723 90.5	719 90.0	696 87.1		
Gwynedd LA	560	482 86.1		557	495 88.9	482 86.5		598	545 91.1	544 91.0	526 88.0		
Wrexham LA	689	558 81.0		651	579 88.9	530 81.4		712	653 91.7	643 90.3	626 87.9		
<b>Health Board Total</b>	<b>3336</b>	<b>2738 82.1</b>		<b>3370</b>	<b>3042 90.3</b>	<b>2778 82.4</b>		<b>3638</b>	<b>3292 90.5</b>	<b>3269 89.9</b>	<b>3169 87.1</b>		
<b>Cardiff and Vale University HB</b>													
Cardiff LA	1886	1546 82.0		1730	1489 86.1	1367 79.0		1768	1533 86.7	1508 85.3	1332 75.3		
Vale of Glamorgan LA	699	608 87.0		655	599 91.5	546 83.4		668	605 90.6	596 89.2	523 78.3		
<b>Health Board Total</b>	<b>2585</b>	<b>2154 83.3</b>		<b>2385</b>	<b>2088 87.5</b>	<b>1913 80.2</b>		<b>2436</b>	<b>2138 87.8</b>	<b>2104 86.4</b>	<b>1855 76.1</b>		
<b>Cwm Taf University HB</b>													
Merthyr Tydfil LA	332	295 88.9		289	269 93.1	265 91.7		300	280 93.3	278 92.7	274 91.3		
Rhondda Cynon Taf LA	1368	1244 90.9		1221	1164 95.3	1137 93.1		1268	1222 96.4	1206 95.1	1169 92.2		
<b>Health Board Total</b>	<b>1700</b>	<b>1539 90.5</b>		<b>1510</b>	<b>1433 94.9</b>	<b>1402 92.8</b>		<b>1568</b>	<b>1502 95.8</b>	<b>1484 94.6</b>	<b>1443 92.0</b>		
<b>Hywel Dda University HB</b>													
Carmarthenshire LA	977	877 89.8		934	862 92.3	832 89.1		965	900 93.3	888 92.0	871 90.3		
Ceredigion LA	322	266 82.6		313	270 86.3	267 85.3		307	278 90.6	277 90.2	271 88.3		
Pembrokeshire LA	616	508 82.5		538	465 86.4	445 82.7		562	494 87.9	485 86.3	464 82.6		
<b>Health Board Total</b>	<b>1915</b>	<b>1651 86.2</b>		<b>1785</b>	<b>1597 89.5</b>	<b>1544 86.5</b>		<b>1834</b>	<b>1672 91.2</b>	<b>1650 90.0</b>	<b>1606 87.6</b>		
<b>Powys Teaching HB</b>	<b>613</b>	<b>433 70.6</b>		<b>612</b>	<b>519 84.8</b>	<b>484 79.1</b>		<b>619</b>	<b>512 82.7</b>	<b>506 81.7</b>	<b>484 78.2</b>		
Unknown	48	39 81.3		52	45 86.5	39 75.0		77	59 76.6	59 76.6	58 75.3		
<b>Wales Total</b>	<b>16137</b>	<b>13579 84.1</b>		<b>15637</b>	<b>14143 90.4</b>	<b>13002 83.1</b>		<b>16245</b>	<b>14685 90.4</b>	<b>14516 89.4</b>	<b>13756 84.7</b>		

<sup>1</sup> Timings of HPV immunisation sessions vary between health boards and data entry to local Child Health offices databases may not have been complete at the time this report was produced.

<sup>2</sup> Represents the first School Year 8 group (2014-15) to receive the two dose HPV schedule.

**Table 9.** MMR, Td/IPV, MenC and MenACWY vaccine uptake in children reaching their 14th birthday between 01/09/15 and 31/08/16 and resident on 30/06/16 (2015-16 school year 9), with breakdown of MMR1 and MMR2 coverage by sex.

Area	Resident children						Teenage 3 in 1 booster <sup>1</sup>					Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(%)
<b>Abertawe Bro Morgannwg University HB</b>	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(%)
Bridgend LA	1517	1423	93.8	1329	87.6	1354	89.3	4	0.3	1361	89.7	744	701	94.2	659	88.6	773	722	93.4	670	86.7		
Neath Port Talbot LA	1459	1352	92.7	1251	85.7	1316	90.2	2	0.1	1338	91.7	716	675	94.3	625	87.3	743	677	91.1	626	84.3		
Swansea LA	2487	2283	91.8	2127	85.5	2189	88.0	7	0.3	2197	88.3	1222	1128	92.3	1054	86.3	1265	1155	91.3	1073	84.8		
<b>Health Board Total</b>	<b>5463</b>	<b>5058</b>	<b>92.6</b>	<b>4707</b>	<b>86.2</b>	<b>4859</b>	<b>88.9</b>	<b>13</b>	<b>0.2</b>	<b>4896</b>	<b>89.6</b>	<b>2682</b>	<b>2504</b>	<b>93.4</b>	<b>2338</b>	<b>87.2</b>	<b>2781</b>	<b>2554</b>	<b>91.8</b>	<b>2369</b>	<b>85.2</b>		
<b>Aneurin Bevan University HB</b>																							
Blaenau Gwent LA	693	658	94.9	626	90.3	578	83.4	0	0.0	579	83.5	372	354	95.2	341	91.7	321	304	94.7	285	88.8		
Caerphilly LA	2021	1947	96.3	1852	91.6	1660	82.1	29	1.4	1647	81.5	948	913	96.3	864	91.1	1073	1034	96.4	988	92.1		
Monmouthshire LA	1023	877	85.7	813	79.5	584	57.1	2	0.2	579	56.6	506	431	85.2	406	80.2	516	446	86.4	407	78.9		
Newport LA	1856	1687	90.9	1574	84.8	1186	63.9	23	1.2	1174	63.3	922	838	90.9	794	86.1	932	848	91.0	780	83.7		
Torfaen LA	1016	956	94.1	907	89.3	844	83.1	0	0.0	844	83.1	493	461	93.5	439	89.0	523	495	94.6	468	89.5		
<b>Health Board Total</b>	<b>6609</b>	<b>6125</b>	<b>92.7</b>	<b>5772</b>	<b>87.3</b>	<b>4852</b>	<b>73.4</b>	<b>54</b>	<b>0.8</b>	<b>4823</b>	<b>73.0</b>	<b>3241</b>	<b>2997</b>	<b>92.5</b>	<b>2844</b>	<b>87.8</b>	<b>3365</b>	<b>3127</b>	<b>92.9</b>	<b>2928</b>	<b>87.0</b>		
<b>Betsi Cadwaladr University HB</b>																							
Anglesey LA	717	678	94.6	661	92.2	574	80.1	1	0.1	565	78.8	353	334	94.6	327	92.6	364	344	94.5	334	91.8		
Conwy LA	1122	1048	93.4	1002	89.3	914	81.5	1	0.1	921	82.1	539	507	94.1	483	89.6	582	540	92.8	518	89.0		
Denbighshire LA	1038	966	93.1	916	88.2	713	68.7	0	0.0	693	66.8	479	442	92.3	420	87.7	559	524	93.7	496	88.7		
Flintshire LA	1571	1473	93.8	1411	89.8	919	58.5	0	0.0	901	57.4	791	741	93.7	715	90.4	780	732	93.8	696	89.2		
Gwynedd LA	1171	1108	94.6	1065	90.9	884	75.5	4	0.3	900	76.9	557	528	94.8	507	91.0	614	580	94.5	558	90.9		
Wrexham LA	1323	1262	95.4	1237	93.5	1020	77.1	1	0.1	1011	76.4	651	622	95.5	615	94.5	672	640	95.2	622	92.6		
<b>Health Board Total</b>	<b>6942</b>	<b>6535</b>	<b>94.1</b>	<b>6292</b>	<b>90.6</b>	<b>5024</b>	<b>72.4</b>	<b>7</b>	<b>0.1</b>	<b>4991</b>	<b>71.9</b>	<b>3370</b>	<b>3174</b>	<b>94.2</b>	<b>3067</b>	<b>91.0</b>	<b>3571</b>	<b>3360</b>	<b>94.1</b>	<b>3224</b>	<b>90.3</b>		
<b>Cardiff and Vale University HB</b>																							
Cardiff LA	3661	3341	91.3	3075	84.0	2460	67.2	1135	31.0	1821	49.7	1730	1575	91.0	1453	84.0	1930	1766	91.5	1622	84.0		
Vale of Glamorgan LA	1329	1248	93.9	1174	88.3	1036	78.0	460	34.6	790	59.4	655	623	95.1	592	90.4	674	625	92.7	582	86.4		
<b>Health Board Total</b>	<b>4990</b>	<b>4589</b>	<b>92.0</b>	<b>4249</b>	<b>85.2</b>	<b>3496</b>	<b>70.1</b>	<b>1595</b>	<b>32.0</b>	<b>2611</b>	<b>52.3</b>	<b>2385</b>	<b>2198</b>	<b>92.2</b>	<b>2045</b>	<b>85.7</b>	<b>2604</b>	<b>2391</b>	<b>91.8</b>	<b>2204</b>	<b>84.6</b>		
<b>Cwm Taf University HB</b>																							
Merthyr Tydfil LA	628	596	94.9	551	87.7	552	87.9	1	0.2	552	87.9	289	277	95.8	257	88.9	338	319	94.4	294	87.0		
Rhondda Cynon Taf LA	2512	2382	94.8	2247	89.5	2206	87.8	12	0.5	2210	88.0	1221	1167	95.6	1109	90.8	1291	1215	94.1	1138	88.1		
<b>Health Board Total</b>	<b>3140</b>	<b>2978</b>	<b>94.8</b>	<b>2798</b>	<b>89.1</b>	<b>2758</b>	<b>87.8</b>	<b>13</b>	<b>0.4</b>	<b>2762</b>	<b>88.0</b>	<b>1510</b>	<b>1444</b>	<b>95.6</b>	<b>1366</b>	<b>90.5</b>	<b>1629</b>	<b>1534</b>	<b>94.2</b>	<b>1432</b>	<b>87.9</b>		
<b>Hywel Dda University HB</b>																							
Carmarthenshire LA	2002	1861	93.0	1817	90.8	1771	88.5	5	0.2	1770	88.4	934	868	92.9	845	90.5	1068	993	93.0	972	91.0		
Ceredigion LA	622	574	92.3	546	87.8	533	85.7	1	0.2	531	85.4	313	288	92.0	277	88.5	309	286	92.6	269	87.1		
Pembrokeshire LA	1177	1088	92.4	1018	86.5	906	77.0	8	0.7	891	75.7	538	501	93.1	470	87.4	639	587	91.9	548	85.8		
<b>Health Board Total</b>	<b>3801</b>	<b>3523</b>	<b>92.7</b>	<b>3381</b>	<b>89.0</b>	<b>3210</b>	<b>84.5</b>	<b>14</b>	<b>0.4</b>	<b>3192</b>	<b>84.0</b>	<b>1785</b>	<b>1657</b>	<b>92.8</b>	<b>1592</b>	<b>89.2</b>	<b>2016</b>	<b>1866</b>	<b>92.6</b>	<b>1789</b>	<b>88.7</b>		
<b>Powys Teaching HB</b>	<b>1275</b>	<b>1147</b>	<b>90.0</b>	<b>1052</b>	<b>82.5</b>	<b>1032</b>	<b>80.9</b>	<b>1</b>	<b>0.1</b>	<b>1041</b>	<b>81.6</b>	<b>612</b>	<b>559</b>	<b>91.3</b>	<b>517</b>	<b>84.5</b>	<b>663</b>	<b>588</b>	<b>88.7</b>	<b>535</b>	<b>80.7</b>		
Unknown	105	96	91.4	92	87.6	74	70.5	3	2.9	78	74.3	52	48	92.3	46	88.5	53	48	90.6	46	86.8		
<b>Wales Total</b>	<b>32325</b>	<b>30051</b>	<b>93.0</b>	<b>28343</b>	<b>87.7</b>	<b>25305</b>	<b>78.3</b>	<b>1700</b>	<b>5.3</b>	<b>24394</b>	<b>75.5</b>	<b>15637</b>	<b>14581</b>	<b>93.2</b>	<b>13815</b>	<b>88.3</b>	<b>16682</b>	<b>15468</b>	<b>92.7</b>	<b>14527</b>	<b>87.1</b>		

<sup>1</sup> Teenage booster dose of diphtheria, tetanus and polio (diphtheria used as proxy)

<sup>2</sup> Single antigen meningococcal group C vaccination

**Table 10.** MMR, Td/IPV, MenC and MenACWY vaccine uptake in children reaching their 15th birthday between 01/09/15 and 31/08/16 and resident on 30/06/16 (2015-16 school year 10), with breakdown of MMR1 and MMR2 coverage by sex

Area	Resident children		Teenage 3 in 1 booster <sup>1</sup>									Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n) (%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)		
<b>Abertawe Bro Morgannwg University HB</b>	(n)	(n) (%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)		
Bridgend LA	1682	1609 95.7	1529	90.9	1503	89.4	1508	89.7	5	0.3	848	810 95.5	769	90.7	834	799 95.8	760	91.1					
Neath Port Talbot LA	1523	1438 94.4	1327	87.1	1339	87.9	1323	86.9	7	0.5	726	696 95.9	652	89.8	797	742 93.1	675	84.7					
Swansea LA	2548	2358 92.5	2172	85.2	2210	86.7	2123	83.3	11	0.4	1284	1191 92.8	1113	86.7	1264	1167 92.3	1059	83.8					
<b>Health Board Total</b>	<b>5753</b>	<b>5405 94.0</b>	<b>5028 87.4</b>	<b>5052 87.8</b>	<b>4954 86.1</b>	<b>23 0.4</b>	<b>2858</b>	<b>2697 94.4</b>	<b>2534 88.7</b>	<b>2895</b>	<b>2708 93.5</b>	<b>2494 86.1</b>											
<b>Aneurin Bevan University HB</b>																							
Blaenau Gwent LA	732	693 94.7	665	90.8	618	84.4	611	83.5	1	0.1	363	340 93.7	325	89.5	369	353 95.7	340	92.1					
Caerphilly LA	2014	1961 97.4	1901	94.4	1687	83.8	1665	82.7	19	0.9	960	931 97.0	889	92.6	1054	1030 97.7	1012	96.0					
Monmouthshire LA	1074	946 88.1	867	80.7	831	77.4	814	75.8	10	0.9	517	461 89.2	433	83.8	557	485 87.1	434	77.9					
Newport LA	1778	1664 93.6	1556	87.5	1457	81.9	1429	80.4	7	0.4	859	801 93.2	749	87.2	918	862 93.9	806	87.8					
Torfaen LA	1058	1019 96.3	979	92.5	928	87.7	921	87.1	3	0.3	516	496 96.1	476	92.2	542	523 96.5	503	92.8					
<b>Health Board Total</b>	<b>6656</b>	<b>6283 94.4</b>	<b>5968 89.7</b>	<b>5521 82.9</b>	<b>5440 81.7</b>	<b>40 0.6</b>	<b>3215</b>	<b>3029 94.2</b>	<b>2872 89.3</b>	<b>3440</b>	<b>3253 94.6</b>	<b>3095 90.0</b>											
<b>Betsi Cadwaladr University HB</b>																							
Anglesey LA	716	681 95.1	663	92.6	587	82.0	536	74.9	11	1.5	355	339 95.5	328	92.4	361	342 94.7	335	92.8					
Conwy LA	1253	1156 92.3	1076	85.9	1001	79.9	981	78.3	10	0.8	629	582 92.5	547	87.0	624	574 92.0	529	84.8					
Denbighshire LA	1121	1038 92.6	982	87.6	907	80.9	888	79.2	11	1.0	545	506 92.8	483	88.6	575	532 92.5	499	86.8					
Flintshire LA	1615	1526 94.5	1460	90.4	1340	83.0	1307	80.9	8	0.5	799	761 95.2	730	91.4	816	765 93.8	730	89.5					
Gwynedd LA	1240	1182 95.3	1140	91.9	1040	83.9	951	76.7	9	0.7	598	577 96.5	554	92.6	642	605 94.2	586	91.3					
Wrexham LA	1455	1390 95.5	1336	91.8	1214	83.4	1176	80.8	9	0.6	712	685 96.2	650	91.3	743	705 94.9	686	92.3					
<b>Health Board Total</b>	<b>7400</b>	<b>6973 94.2</b>	<b>6657 90.0</b>	<b>6089 82.3</b>	<b>5839 78.9</b>	<b>58 0.8</b>	<b>3638</b>	<b>3450 94.8</b>	<b>3292 90.5</b>	<b>3761</b>	<b>3523 93.7</b>	<b>3365 89.5</b>											
<b>Cardiff and Vale University HB</b>																							
Cardiff LA	3741	3431 91.7	3184	85.1	2740	73.2	2625	70.2	106	2.8	1768	1624 91.9	1514	85.6	1973	1807 91.6	1670	84.6					
Vale of Glamorgan LA	1361	1271 93.4	1185	87.1	1090	80.1	1051	77.2	39	2.9	668	625 93.6	584	87.4	693	646 93.2	601	86.7					
<b>Health Board Total</b>	<b>5102</b>	<b>4702 92.2</b>	<b>4369 85.6</b>	<b>3830 75.1</b>	<b>3676 72.1</b>	<b>145 2.8</b>	<b>2436</b>	<b>2249 92.3</b>	<b>2098 86.1</b>	<b>2666</b>	<b>2453 92.0</b>	<b>2271 85.2</b>											
<b>Cwm Taf University HB</b>																							
Merthyr Tydfil LA	632	602 95.3	561	88.8	576	91.1	570	90.2	11	1.7	300	287 95.7	269	89.7	332	315 94.9	292	88.0					
Rhondda Cynon Taf LA	2616	2514 96.1	2354	90.0	2392	91.4	2351	89.9	58	2.2	1268	1227 96.8	1157	91.2	1347	1287 95.5	1197	88.9					
<b>Health Board Total</b>	<b>3248</b>	<b>3116 95.9</b>	<b>2915 89.7</b>	<b>2968 91.4</b>	<b>2921 89.9</b>	<b>69 2.1</b>	<b>1568</b>	<b>1514 96.6</b>	<b>1426 90.9</b>	<b>1679</b>	<b>1602 95.4</b>	<b>1489 88.7</b>											
<b>Hywel Dda University HB</b>																							
Carmarthenshire LA	1993	1855 93.1	1793	90.0	1765	88.6	1734	87.0	23	1.2	965	913 94.6	886	91.8	1028	942 91.6	907	88.2					
Ceredigion LA	661	623 94.3	596	90.2	581	87.9	577	87.3	5	0.8	307	293 95.4	284	92.5	354	330 93.2	312	88.1					
Pembrokeshire LA	1241	1145 92.3	1091	87.9	929	74.9	895	72.1	14	1.1	562	523 93.1	494	87.9	679	622 91.6	597	87.9					
<b>Health Board Total</b>	<b>3895</b>	<b>3623 93.0</b>	<b>3480 89.3</b>	<b>3275 84.1</b>	<b>3206 82.3</b>	<b>42 1.1</b>	<b>1834</b>	<b>1729 94.3</b>	<b>1664 90.7</b>	<b>2061</b>	<b>1894 91.9</b>	<b>1816 88.1</b>											
<b>Powys Teaching HB</b>	<b>1306</b>	<b>1169 89.5</b>	<b>1094 83.8</b>	<b>1056 80.9</b>	<b>1083 82.9</b>	<b>8 0.6</b>	<b>619</b>	<b>554 89.5</b>	<b>515 83.2</b>	<b>687</b>	<b>615 89.5</b>	<b>579 84.3</b>											
Unknown	162	143 88.3	135	83.3	116	71.6	116	71.6	0	0.0	77	67 87.0	65	84.4	85	76 89.4	70	82.4					
<b>Wales Total</b>	<b>33522</b>	<b>31414 93.7</b>	<b>29646 88.4</b>	<b>27907 83.2</b>	<b>27235 81.2</b>	<b>385 1.1</b>	<b>16245</b>	<b>15289 94.1</b>	<b>14466 89.0</b>	<b>17274</b>	<b>16124 93.3</b>	<b>15179 87.9</b>											

<sup>1</sup> Teenage booster dose of diphtheria, tetanus and polio (diphtheria used as proxy)

<sup>2</sup> Single antigen meningococcal group C vaccination

**Table 11.** MMR, Td/IPV, MenC and MenACWY vaccine uptake in children reaching their 16th birthday between 01/09/15 and 31/08/16 and resident on 30/06/16 (2015-16 school year 11), with breakdown of MMR1 and MMR2 coverage by sex

Area	Resident children						Teenage 3 in 1 booster <sup>1</sup>					Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)		
<b>Abertawe Bro Morgannwg University HB</b>																							
Bridgend LA	1548	1485	95.9	1406	90.8	1327	85.7	1312	84.8	1346	87.0	767	731	95.3	693	90.4	781	754	96.5	713	91.3		
Neath Port Talbot LA	1509	1434	95.0	1354	89.7	1289	85.4	1279	84.8	1268	84.0	710	677	95.4	644	90.7	799	757	94.7	710	88.9		
Swansea LA	2640	2457	93.1	2311	87.5	2308	87.4	2272	86.1	2166	82.0	1262	1176	93.2	1107	87.7	1378	1281	93.0	1204	87.4		
<b>Health Board Total</b>	<b>5697</b>	<b>5376</b>	<b>94.4</b>	<b>5071</b>	<b>89.0</b>	<b>4924</b>	<b>86.4</b>	<b>4863</b>	<b>85.4</b>	<b>4780</b>	<b>83.9</b>	<b>2739</b>	<b>2584</b>	<b>94.3</b>	<b>2444</b>	<b>89.2</b>	<b>2958</b>	<b>2792</b>	<b>94.4</b>	<b>2627</b>	<b>88.8</b>		
<b>Aneurin Bevan University HB</b>																							
Blaenau Gwent LA	770	740	96.1	701	91.0	666	86.5	661	85.8	603	78.3	389	371	95.4	354	91.0	381	369	96.9	347	91.1		
Caerphilly LA	2121	2056	96.9	1960	92.4	1786	84.2	1769	83.4	1617	76.2	1001	962	96.1	918	91.7	1120	1094	97.7	1042	93.0		
Monmouthshire LA	1144	1019	89.1	958	83.7	874	76.4	857	74.9	778	68.0	582	529	90.9	511	87.8	562	490	87.2	447	79.5		
Newport LA	1917	1782	93.0	1651	86.1	1507	78.6	1472	76.8	1351	70.5	899	832	92.5	771	85.8	1016	949	93.4	879	86.5		
Torfaen LA	1000	969	96.9	927	92.7	844	84.4	831	83.1	745	74.5	477	464	97.3	443	92.9	523	505	96.6	484	92.5		
<b>Health Board Total</b>	<b>6952</b>	<b>6566</b>	<b>94.4</b>	<b>6197</b>	<b>89.1</b>	<b>5677</b>	<b>81.7</b>	<b>5590</b>	<b>80.4</b>	<b>5094</b>	<b>73.3</b>	<b>3348</b>	<b>3158</b>	<b>94.3</b>	<b>2997</b>	<b>89.5</b>	<b>3602</b>	<b>3407</b>	<b>94.6</b>	<b>3199</b>	<b>88.8</b>		
<b>Betsi Cadwaladr University HB</b>																							
Anglesey LA	698	658	94.3	636	91.1	583	83.5	542	77.7	515	73.8	353	332	94.1	322	91.2	345	326	94.5	314	91.0		
Conwy LA	1299	1203	92.6	1148	88.4	1159	89.2	1098	84.5	967	74.4	612	572	93.5	543	88.7	687	631	91.8	605	88.1		
Denbighshire LA	1093	990	90.6	930	85.1	920	84.2	878	80.3	768	70.3	533	488	91.6	463	86.9	560	502	89.6	467	83.4		
Flintshire LA	1638	1556	95.0	1501	91.6	1445	88.2	1394	85.1	1238	75.6	804	764	95.0	741	92.2	834	792	95.0	760	91.1		
Gwynedd LA	1258	1192	94.8	1158	92.1	1114	88.6	1084	86.2	974	77.4	610	582	95.4	565	92.6	648	610	94.1	593	91.5		
Wrexham LA	1533	1459	95.2	1415	92.3	1325	86.4	1220	79.6	1142	74.5	743	713	96.0	693	93.3	790	746	94.4	722	91.4		
<b>Health Board Total</b>	<b>7519</b>	<b>7058</b>	<b>93.9</b>	<b>6788</b>	<b>90.3</b>	<b>6546</b>	<b>87.1</b>	<b>6216</b>	<b>82.7</b>	<b>5604</b>	<b>74.5</b>	<b>3655</b>	<b>3451</b>	<b>94.4</b>	<b>3327</b>	<b>91.0</b>	<b>3864</b>	<b>3607</b>	<b>93.3</b>	<b>3461</b>	<b>89.6</b>		
<b>Cardiff and Vale University HB</b>																							
Cardiff LA	3687	3422	92.8	3228	87.6	2843	77.1	1360	36.9	2762	74.9	1807	1692	93.6	1600	88.5	1880	1730	92.0	1628	86.6		
Vale of Glamorgan LA	1481	1414	95.5	1355	91.5	1220	82.4	614	41.5	1121	75.7	738	706	95.7	678	91.9	743	708	95.3	677	91.1		
<b>Health Board Total</b>	<b>5168</b>	<b>4836</b>	<b>93.6</b>	<b>4583</b>	<b>88.7</b>	<b>4063</b>	<b>78.6</b>	<b>1974</b>	<b>38.2</b>	<b>3883</b>	<b>75.1</b>	<b>2545</b>	<b>2398</b>	<b>94.2</b>	<b>2278</b>	<b>89.5</b>	<b>2623</b>	<b>2438</b>	<b>92.9</b>	<b>2305</b>	<b>87.9</b>		
<b>Cwm Taf University HB</b>																							
Merthyr Tydfil LA	713	682	95.7	644	90.3	659	92.4	656	92.0	609	85.4	337	323	95.8	306	90.8	376	359	95.5	338	89.9		
Rhondda Cynon Taf LA	2634	2535	96.2	2390	90.7	2394	90.9	2359	89.6	2248	85.3	1304	1261	96.7	1203	92.3	1330	1274	95.8	1187	89.2		
<b>Health Board Total</b>	<b>3347</b>	<b>3217</b>	<b>96.1</b>	<b>3034</b>	<b>90.6</b>	<b>3053</b>	<b>91.2</b>	<b>3015</b>	<b>90.1</b>	<b>2857</b>	<b>85.4</b>	<b>1641</b>	<b>1584</b>	<b>96.5</b>	<b>1509</b>	<b>92.0</b>	<b>1706</b>	<b>1633</b>	<b>95.7</b>	<b>1525</b>	<b>89.4</b>		
<b>Hywel Dda University HB</b>																							
Carmarthenshire LA	1989	1846	92.8	1739	87.4	1649	82.9	1610	80.9	1634	82.2	937	876	93.5	828	88.4	1052	970	92.2	911	86.6		
Ceredigion LA	684	654	95.6	624	91.2	600	87.7	590	86.3	581	84.9	330	320	97.0	308	93.3	354	334	94.4	316	89.3		
Pembrokeshire LA	1277	1204	94.3	1146	89.7	1093	85.6	1013	79.3	937	73.4	630	591	93.8	560	88.9	647	613	94.7	586	90.6		
<b>Health Board Total</b>	<b>3950</b>	<b>3704</b>	<b>93.8</b>	<b>3509</b>	<b>88.8</b>	<b>3342</b>	<b>84.6</b>	<b>3213</b>	<b>81.3</b>	<b>3152</b>	<b>79.8</b>	<b>1897</b>	<b>1787</b>	<b>94.2</b>	<b>1696</b>	<b>89.4</b>	<b>2053</b>	<b>1917</b>	<b>93.4</b>	<b>1813</b>	<b>88.3</b>		
<b>Powys Teaching HB</b>	<b>1365</b>	<b>1244</b>	<b>91.1</b>	<b>1152</b>	<b>84.4</b>	<b>1074</b>	<b>78.7</b>	<b>954</b>	<b>69.9</b>	<b>1045</b>	<b>76.6</b>	<b>664</b>	<b>599</b>	<b>90.2</b>	<b>559</b>	<b>84.2</b>	<b>700</b>	<b>645</b>	<b>92.1</b>	<b>593</b>	<b>84.7</b>		
Unknown	169	152	89.9	144	85.2	133	78.7	126	74.6	127	75.1	69	64	92.8	61	88.4	99	88	88.9	83	83.8		
<b>Wales Total</b>	<b>34167</b>	<b>32153</b>	<b>94.1</b>	<b>30478</b>	<b>89.2</b>	<b>28812</b>	<b>84.3</b>	<b>25951</b>	<b>76.0</b>	<b>26542</b>	<b>77.7</b>	<b>16558</b>	<b>15625</b>	<b>94.4</b>	<b>14871</b>	<b>89.8</b>	<b>17605</b>	<b>16527</b>	<b>93.9</b>	<b>15606</b>	<b>88.6</b>		

<sup>1</sup> Teenage booster dose of diphtheria, tetanus and polio (diphtheria used as proxy)

<sup>2</sup> Single antigen meningococcal group C vaccination

**Table 12.** MMR, Td/IPV, MenC and MenACWY vaccine uptake in children reaching their 16th birthday between 01/04/16 and 30/06/16 and resident on 30/06/16 (2015-16 school year 12), with breakdown of MMR1 and MMR2 coverage by sex

Area	Resident children		MMR1		MMR2		Teenage 3 in 1 booster <sup>1</sup>		MenC <sup>2</sup>		MenACWY		Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(n)	(%)	(n)	(%)	
<b>Abertawe Bro Morgannwg University HB</b>	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(n)	(%)	(n)	(%)	
Bridgend LA	372	357	96.0	330	88.7	318	85.5	316	84.9	314	84.4	188	177	94.1	164	87.2	184	180	97.8	166	90.2			
Neath Port Talbot LA	375	352	93.9	339	90.4	327	87.2	324	86.4	322	85.9	184	176	95.7	171	92.9	191	176	92.1	168	88.0			
Swansea LA	649	605	93.2	562	86.6	566	87.2	561	86.4	527	81.2	313	287	91.7	268	85.6	336	318	94.6	294	87.5			
<b>Health Board Total</b>	<b>1396</b>	<b>1314</b>	<b>94.1</b>	<b>1231</b>	<b>88.2</b>	<b>1211</b>	<b>86.7</b>	<b>1201</b>	<b>86.0</b>	<b>1163</b>	<b>83.3</b>	<b>685</b>	<b>640</b>	<b>93.4</b>	<b>603</b>	<b>88.0</b>	<b>711</b>	<b>674</b>	<b>94.8</b>	<b>628</b>	<b>88.3</b>			
<b>Aneurin Bevan University HB</b>																								
Blaenau Gwent LA	173	166	96.0	157	90.8	151	87.3	150	86.7	135	78.0	84	80	95.2	77	91.7	89	86	96.6	80	89.9			
Caerphilly LA	537	519	96.6	499	92.9	461	85.8	452	84.2	412	76.7	262	254	96.9	245	93.5	275	265	96.4	254	92.4			
Monmouthshire LA	290	255	87.9	239	82.4	216	74.5	212	73.1	187	64.5	155	141	91.0	133	85.8	135	114	84.4	106	78.5			
Newport LA	495	454	91.7	417	84.2	378	76.4	371	74.9	346	69.9	231	211	91.3	194	84.0	262	242	92.4	222	84.7			
Torfaen LA	254	245	96.5	231	90.9	209	82.3	204	80.3	173	68.1	113	109	96.5	100	88.5	141	136	96.5	131	92.9			
<b>Health Board Total</b>	<b>1749</b>	<b>1639</b>	<b>93.7</b>	<b>1543</b>	<b>88.2</b>	<b>1415</b>	<b>80.9</b>	<b>1389</b>	<b>79.4</b>	<b>1253</b>	<b>71.6</b>	<b>845</b>	<b>795</b>	<b>94.1</b>	<b>749</b>	<b>88.6</b>	<b>902</b>	<b>843</b>	<b>93.5</b>	<b>793</b>	<b>87.9</b>			
<b>Betsi Cadwaladr University HB</b>																								
Anglesey LA	182	174	95.6	165	90.7	153	84.1	143	78.6	129	70.9	78	75	96.2	71	91.0	104	99	95.2	94	90.4			
Conwy LA	313	295	94.2	284	90.7	286	91.4	274	87.5	216	69.0	149	143	96.0	137	91.9	164	152	92.7	147	89.6			
Denbighshire LA	258	243	94.2	232	89.9	216	83.7	210	81.4	173	67.1	126	116	92.1	109	86.5	132	127	96.2	123	93.2			
Flintshire LA	388	371	95.6	356	91.8	341	87.9	330	85.1	286	73.7	186	177	95.2	172	92.5	202	194	96.0	184	91.1			
Gwynedd LA	355	333	93.8	323	91.0	318	89.6	310	87.3	255	71.8	168	160	95.2	155	92.3	187	173	92.5	168	89.8			
Wrexham LA	398	370	93.0	357	89.7	339	85.2	307	77.1	281	70.6	183	174	95.1	169	92.3	215	196	91.2	188	87.4			
<b>Health Board Total</b>	<b>1894</b>	<b>1786</b>	<b>94.3</b>	<b>1717</b>	<b>90.7</b>	<b>1653</b>	<b>87.3</b>	<b>1574</b>	<b>83.1</b>	<b>1340</b>	<b>70.7</b>	<b>890</b>	<b>845</b>	<b>94.9</b>	<b>813</b>	<b>91.3</b>	<b>1004</b>	<b>941</b>	<b>93.7</b>	<b>904</b>	<b>90.0</b>			
<b>Cardiff and Vale University HB</b>																								
Cardiff LA	935	856	91.6	807	86.3	706	75.5	649	69.4	659	70.5	459	417	90.8	395	86.1	476	439	92.2	412	86.6			
Vale of Glamorgan LA	359	345	96.1	331	92.2	294	81.9	268	74.7	267	74.4	172	166	96.5	161	93.6	187	179	95.7	170	90.9			
<b>Health Board Total</b>	<b>1294</b>	<b>1201</b>	<b>92.8</b>	<b>1138</b>	<b>87.9</b>	<b>1000</b>	<b>77.3</b>	<b>917</b>	<b>70.9</b>	<b>926</b>	<b>71.6</b>	<b>631</b>	<b>583</b>	<b>92.4</b>	<b>556</b>	<b>88.1</b>	<b>663</b>	<b>618</b>	<b>93.2</b>	<b>582</b>	<b>87.8</b>			
<b>Cwm Taf University HB</b>																								
Merthyr Tydfil LA	155	149	96.1	137	88.4	148	95.5	148	95.5	134	86.5	75	72	96.0	65	86.7	80	77	96.3	72	90.0			
Rhondda Cynon Taf LA	625	594	95.0	551	88.2	573	91.7	560	89.6	499	79.8	319	306	95.9	289	90.6	306	288	94.1	262	85.6			
<b>Health Board Total</b>	<b>780</b>	<b>743</b>	<b>95.3</b>	<b>688</b>	<b>88.2</b>	<b>721</b>	<b>92.4</b>	<b>708</b>	<b>90.8</b>	<b>633</b>	<b>81.2</b>	<b>394</b>	<b>378</b>	<b>95.9</b>	<b>354</b>	<b>89.8</b>	<b>386</b>	<b>365</b>	<b>94.6</b>	<b>334</b>	<b>86.5</b>			
<b>Hywel Dda University HB</b>																								
Cardiff LA	467	431	92.3	406	86.9	389	83.3	377	80.7	375	80.3	204	186	91.2	178	87.3	263	245	93.2	228	86.7			
Ceredigion LA	164	155	94.5	151	92.1	140	85.4	140	85.4	130	79.3	83	81	97.6	78	94.0	81	74	91.4	73	90.1			
Pembrokeshire LA	301	286	95.0	270	89.7	258	85.7	243	80.7	213	70.8	155	150	96.8	140	90.3	146	136	93.2	130	89.0			
<b>Health Board Total</b>	<b>932</b>	<b>872</b>	<b>93.6</b>	<b>827</b>	<b>88.7</b>	<b>787</b>	<b>84.4</b>	<b>760</b>	<b>81.5</b>	<b>718</b>	<b>77.0</b>	<b>442</b>	<b>417</b>	<b>94.3</b>	<b>396</b>	<b>89.6</b>	<b>490</b>	<b>455</b>	<b>92.9</b>	<b>431</b>	<b>88.0</b>			
<b>Powys Teaching HB</b>	<b>347</b>	<b>313</b>	<b>90.2</b>	<b>287</b>	<b>82.7</b>	<b>273</b>	<b>78.7</b>	<b>241</b>	<b>69.5</b>	<b>267</b>	<b>76.9</b>	<b>162</b>	<b>145</b>	<b>89.5</b>	<b>133</b>	<b>82.1</b>	<b>185</b>	<b>168</b>	<b>90.8</b>	<b>154</b>	<b>83.2</b>			
Unknown	40	37	92.5	34	85.0	33	82.5	31	77.5	32	80.0	17	16	94.1	15	88.2	23	21	91.3	19	82.6			
<b>Wales Total</b>	<b>8432</b>	<b>7905</b>	<b>93.8</b>	<b>7465</b>	<b>88.5</b>	<b>7093</b>	<b>84.1</b>	<b>6821</b>	<b>80.9</b>	<b>6332</b>	<b>75.1</b>	<b>4066</b>	<b>3819</b>	<b>93.9</b>	<b>3619</b>	<b>89.0</b>	<b>4364</b>	<b>4085</b>	<b>93.6</b>	<b>3845</b>	<b>88.1</b>			

<sup>1</sup> Teenage booster dose of diphtheria, tetanus and polio (diphtheria used as proxy)

<sup>2</sup> Single antigen meningococcal group C vaccination

**Table 13.** Uptake of BCG immunisation in children reaching their 1st, 2nd, 5th and 16th birthdays between 01/04/16 and 30/06/16 and resident on 30/06/16.

Area	1 yr			2 yrs			5 yrs			16 yrs		
	Resident children	BCG Immunised	(%)	Resident children	BCG Immunised	(%)	Resident children	BCG Immunised	(%)	Resident children	BCG Immunised	(%)
<b>Abertawe Bro Morgannwg University HB</b>	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)
Bridgend LA	358	11	3.1	374	8	2.1	478	20	4.2	372	4	1.1
Neath Port Talbot LA	382	15	3.9	360	11	3.1	394	15	3.8	375	2	0.5
Swansea LA	634	77	12.1	612	72	11.8	653	65	10.0	649	44	6.8
<b>Health Board Total</b>	<b>1374</b>	<b>103</b>	<b>7.5</b>	<b>1346</b>	<b>91</b>	<b>6.8</b>	<b>1525</b>	<b>100</b>	<b>6.6</b>	<b>1396</b>	<b>50</b>	<b>3.6</b>
<b>Aneurin Bevan University HB</b>												
Blaenau Gwent LA	181	4	2.2	181	5	2.8	195	5	2.6	173	2	1.2
Caerphilly LA	493	11	2.2	504	10	2.0	501	5	1.0	537	2	0.4
Monmouthshire LA	202	8	4.0	191	7	3.7	231	3	1.3	290	3	1.0
Newport LA	467	73	15.6	473	78	16.5	515	68	13.2	495	36	7.3
Torfaen LA	271	3	1.1	239	9	3.8	307	6	2.0	254	2	0.8
<b>Health Board Total</b>	<b>1614</b>	<b>99</b>	<b>6.1</b>	<b>1588</b>	<b>109</b>	<b>6.9</b>	<b>1749</b>	<b>87</b>	<b>5.0</b>	<b>1749</b>	<b>45</b>	<b>2.6</b>
<b>Betsi Cadwaladr University HB</b>												
Anglesey LA	153	1	0.7	202	5	2.5	215	2	0.9	182	5	2.7
Conwy LA	278	8	2.9	284	10	3.5	301	12	4.0	313	6	1.9
Denbighshire LA	277	11	4.0	272	10	3.7	285	13	4.6	258	10	3.9
Flintshire LA	398	14	3.5	400	18	4.5	443	18	4.1	388	14	3.6
Gwynedd LA	278	12	4.3	288	21	7.3	341	16	4.7	355	3	0.8
Wrexham LA	396	28	7.1	388	22	5.7	403	21	5.2	398	21	5.3
<b>Health Board Total</b>	<b>1780</b>	<b>74</b>	<b>4.2</b>	<b>1834</b>	<b>86</b>	<b>4.7</b>	<b>1988</b>	<b>82</b>	<b>4.1</b>	<b>1894</b>	<b>59</b>	<b>3.1</b>
<b>Cardiff and Vale University HB</b>												
Cardiff LA	1096	93	8.5	1083	224	20.7	1132	255	22.5	935	116	12.4
Vale of Glamorgan LA	345	9	2.6	324	7	2.2	426	19	4.5	359	11	3.1
<b>Health Board Total</b>	<b>1441</b>	<b>102</b>	<b>7.1</b>	<b>1407</b>	<b>231</b>	<b>16.4</b>	<b>1558</b>	<b>274</b>	<b>17.6</b>	<b>1294</b>	<b>127</b>	<b>9.8</b>
<b>Cwm Taf Univeristy HB</b>												
Merthyr Tydfil LA	183	14	7.7	179	21	11.7	181	10	5.5	155	3	1.9
Rhondda Cynon Taf LA	678	26	3.8	670	34	5.1	713	32	4.5	625	11	1.8
<b>Health Board Total</b>	<b>861</b>	<b>40</b>	<b>4.6</b>	<b>849</b>	<b>55</b>	<b>6.5</b>	<b>894</b>	<b>42</b>	<b>4.7</b>	<b>780</b>	<b>14</b>	<b>1.8</b>
<b>Hywel Dda University HB</b>												
Carmarthenshire LA	456	13	2.9	449	14	3.1	496	24	4.8	467	57	12.2
Ceredigion LA	179	10	5.6	136	6	4.4	149	10	6.7	164	1	0.6
Pembrokeshire LA	292	6	2.1	309	8	2.6	300	16	5.3	301	3	1.0
<b>Health Board Total</b>	<b>927</b>	<b>29</b>	<b>3.1</b>	<b>894</b>	<b>28</b>	<b>3.1</b>	<b>945</b>	<b>50</b>	<b>5.3</b>	<b>932</b>	<b>61</b>	<b>6.5</b>
<b>Powys Teaching Health Board</b>	<b>329</b>	<b>8</b>	<b>2.4</b>	<b>284</b>	<b>6</b>	<b>2.1</b>	<b>361</b>	<b>9</b>	<b>2.5</b>	<b>347</b>	<b>4</b>	<b>1.2</b>
Unknown	4	2	50.0	7	0	0.0	23	0	0.0	40	2	5.0
<b>Wales Total</b>	<b>8330</b>	<b>457</b>	<b>5.5</b>	<b>8209</b>	<b>606</b>	<b>7.4</b>	<b>9043</b>	<b>644</b>	<b>7.1</b>	<b>8432</b>	<b>362</b>	<b>4.3</b>

Data reflects immunisations given and recorded on the NCCHD (following notifications to local Child Health Administration Offices), may be subject to under-reporting. BCG is not a routinely scheduled immunisation.

**Table 14.** Uptake of hepatitis B immunisation in children receiving their first dose within seven days of birth, reaching their 1st, 2nd, 5th and 16th birthdays during 01/04/16 and 30/06/16 and resident on 30/06/16, and percentage who are recorded as completing doses 1 to 3.

Area	1yr					2yrs						5yrs					
	Resident children	Babies at risk of perinatal infection	1 dose (%)	2 doses (%)	3 doses (%)	Resident children	Babies at risk of perinatal infection	1 dose (%)	2 doses (%)	3 doses (%)	4 doses (%)	Resident children	Babies at risk of perinatal infection	1 dose (%)	2 dose (%)	3 doses (%)	4 doses (%)
	(n)	(n)	(%)	(%)	(%)	(n)	(n)	(%)	(%)	(%)	(%)	(n)	(n)	(%)	(%)	(%)	(%)
Abertawe Bro Morgannwg UHB	1374	2	100.0	100.0	100.0	1346	4	100.0	100.0	100.0	100.0	1525	0	-	-	-	-
Aneurin Bevan UHB	1614	2	100.0	100.0	100.0	1588	3	100.0	100.0	100.0	100.0	1749	2	100.0	100.0	100.0	100.0
Betsi Cadwaladr UHB	1780	1	100.0	100.0	100.0	1834	4	100.0	100.0	100.0	100.0	1988	4	100.0	100.0	100.0	100.0
Cardiff and Vale UHB	1441	7	100.0	100.0	100.0	1407	3	100.0	100.0	100.0	66.7	1558	9	100.0	100.0	100.0	100.0
Cwm Taf UHB	861	0	-	-	-	849	0	-	-	-	-	894	0	-	-	-	-
Hywel Dda UHB	927	0	-	-	-	894	0	-	-	-	-	945	0	-	-	-	-
Powys Teaching HB	329	0	-	-	-	284	0	-	-	-	-	361	0	-	-	-	-
Unknown	4	0	-	-	-	7	0	-	-	-	-	23	0	-	-	-	-
<b>Wales Total</b>	<b>8330</b>	<b>12</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>8209</b>	<b>14</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>92.9</b>	<b>9043</b>	<b>15</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Data reflects immunisations given and recorded on the Public Health Wales All Wales Neonatal Hepatitis B database of babies born to hepatitis B positive mothers.