

Vaccine Uptake in Children in Wales

April to June 2015

COVER 115: Wales August 2015



Key points

- For children at one year of age, uptake of the “5 in 1” vaccine, MenC and pneumococcal conjugate vaccine all exceeded 95% this quarter. Uptake of the “5 in 1” vaccine exceeded 95% in 20 local authority (LA) areas.
- Uptake of two doses of rotavirus vaccine increased to 94%. Eleven LA areas and three health boards had an uptake above 95%.
- Uptake of the first dose of MMR vaccine in two year old children remained above 95% this quarter. Five health boards and 17 LA areas achieved an uptake of 95%.
- Eighty-five per cent of children were up to date with all routine immunisations by four years of age. In six LA areas, the proportion of children who were up to date exceeded 90%.
- Uptake of the second MMR dose by five years of age was 93%.
- Uptake of the “4 in 1” pre-school booster in five year old children decreased from 94% to 92% this quarter.
- Uptake of the first dose of Human Papillomavirus (HPV) vaccine in girls in the 2014-15 School Year 8 was 86%, but varied by health board. Coverage of a complete three dose course in girls in the 2013-14 school year 8 was 85%.
- Uptake of the MenC teenage booster in 15 year olds increased to 81%.
- Coverage of one dose of MMR vaccine in 15 year olds was just below 95% and coverage of a completed two dose course was 89%.
- Coverage of the Td/IPV teenage booster in 15 year olds remained stable at 83%.

These results are for children living in Wales in June 2015 and reaching their first, second, fourth, fifth, 15th and 16th birthdays during the quarter 01/04/2015 to 30/06/2015. Uptake of HPV vaccination¹ in girls in the 2014-15 School Year 8 (reaching their 13th birthday between 01/09/2014 and 31/08/2015) is presented, along with coverage in previous School Year 8 groups. 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.

Findings

1. Uptake of all three doses of the combined “5 in 1” DTaP/IPV/Hib² vaccine, scheduled at 2, 3 and 4 months of age, in children reaching their first birthday remained stable this quarter at 96.9%. Uptake ranged by Health Board from 93.9% (Powys THB) to 98.2% (Cwm Taf UHB) and by Local Authority (LA) from 93.9% (Powys) to 98.5% (Flintshire). Six Health Boards and 20 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 MenC³ vaccine in children reaching their first birthday this quarter was 98.1% compared to 97.8% last quarter. Uptake in

¹ HPV vaccination protects girls against cervical cancer associated with HPV types 16 and 18.

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

³ 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

Health Boards ranged from 95.7% (Powys THB) to 98.9% (Cwm Taf UHB) and ranged by LA from 95.7% (Powys) to 99.6% (Caerphilly). All seven Health Boards and all 22 LA areas achieved an uptake in excess of the 95% target (Figure 2, Tables 2 and 3).

3. Uptake of a complete two dose primary course of pneumococcal conjugate vaccination (PCV2³) in children reaching their first birthday was 96.8% this quarter compared to 96.9% last quarter, ranging by LA from 93.5% (Powys) to 98.6% (Caerphilly). Six Health Boards and 19 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 was 94.4%, increasing from 92.7% last quarter. Uptake in Health Boards ranged from 91.3% (Cardiff & Vale UHB) to 97.7% (Cwm Taf UHB) and ranged by LA from 87.0% (Blaenau Gwent) to 97.7% (Carmarthenshire, Rhondda Cynon Taf and Merthyr Tydfil) (Figure 2, Tables 2 and 3).
5. Uptake of the first dose of MMR⁴ in children reaching their second birthday (scheduled at 12 to 13 months of age) was 95.8% this quarter compared to 95.5% last quarter, and ranged by LA from 91.4% (Pembrokeshire) to 98.0% (Torfaen) (Figures 1, 2 and 6, Tables 2 and 4). Five Health Boards and 17 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 increased to 96.1% this quarter compared to 95.9% last quarter. Uptake by LA ranged from 92.1% (Pembrokeshire) to 98.9% (Blaenau Gwent) (Tables 2 and 4). Six Health Boards and 17 LA areas achieved an uptake in excess of 95%.
7. Uptake of the Hib/MenC booster (given at 12 to 13 months of age) in children reaching two years of age was 95.0% this quarter, compared to 95.2% last quarter, and ranged by LA from 91.0% (Cardiff and Pembrokeshire) to 97.8% (Blaenau Gwent) (Tables 2 and 4). Fifteen LA areas achieved uptakes in excess of 95%.
8. In children reaching four years of age this quarter, coverage of the “4 in 1” DTaP/IPV⁵ pre-school booster was 87.5%, coverage of the Hib/MenC booster was 95.2% and uptake of two doses of MMR was 88.5% (Table 5). The proportion of children who were up to date with all these routine immunisations at four years of age decreased to 85.1% this quarter from 86.1% last quarter (Table 1). This ranged by Health Board from 78.3% (Aneurin Bevan UHB) to 90.9% (Cwm Taf UHB) and by LA from 74.6% (Newport) to 94.0% (Flintshire) (Figure 3, Tables 1 and 5).
9. In children reaching five years of age this quarter, coverage of one dose of MMR decreased to 97.2% from 97.6% last quarter. Uptake of two doses of MMR decreased to 92.6% from 93.6% last quarter (Table 6). Uptake of two doses of MMR ranged by Health Board from 89.6% (Powys THB) to 95.2% (Betsi Cadwaladr UHB) and by LA from 88.4% (Pembrokeshire) to 98.4% (Anglesey) (Figures 1 and 2, Tables 2 and 6). One Health Board (Betsi Cadwaladr UHB) and five LA areas exceeded 95% uptake for two doses of MMR by five years of age (Figure 7).
10. Uptake of the “4 in 1” DTaP/IPV⁵ pre-school booster in children reaching their fifth birthday decreased to 92.3% this quarter from 93.6% last quarter, ranging by Health Board from 90.4% (Abertawe Bro Morgannwg UHB) to 96.3% (Betsi Cadwaladr UHB) and by LA from 86.4% (Bridgend) to 98.4% (Anglesey) (Tables 2, 6). Six LAs achieved the 95% uptake target (Figure 8).
11. Coverage of a two dose primary course of MenC in children reaching their fifth birthday this quarter decreased to 94.5% compared to 95.2% last quarter. Coverage ranged by Health Board from 90.6% (Powys THB) to 96.5% (Cwm Taf UHB) and by LA from 89.8% (Cardiff) to 97.8% (Anglesey) (Table 6).

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.

⁴ MMR protects against measles, mumps and rubella infections.

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

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. Uptake of the first dose of HPV vaccine in girls in the 2014-15 School Year 8 was 86.2% (Table 7). Uptake of the second dose of HPV will be reported in due course. Coverage of HPV vaccination in the 2013-14 School Year 8 group (girls turning 14 years of age during 01/09/14 to 31/08/2015) was at 87.3%, 87.3% and 84.7% for one, two and three doses respectively (Table 7). This represents the last School Year 8 Group to be offered the three dose HPV schedule.
13. Coverage of the MenC booster⁶ immunisation in teenagers at their 15th birthday increased to 81.0% from 72.0% last quarter. Coverage ranged by Health Board from 70.7% (Powys THB) to 92.3% (Cwm Taf UHB) and by LA from 70.2% (Cardiff) to 95.8% (Merthyr Tydfil) (Table 8).
14. Coverage of the Td/IPV⁶ teenage booster in children reaching 15 years of age this quarter was 83.1%. Coverage ranged by Health Board from 77.0% (Cardiff & Vale UHB) to 92.4% (Cwm Taf UHB) and ranged by LA from 72.8% (Monmouthshire) to 95.8% (Merthyr Tydfil) (Table 8).
15. Coverage of two doses of MMR in children reaching 16 years of age remained stable this quarter at 90.5%, ranging by LA from 85.6% (Monmouthshire) to 94.6% (Wrexham). Coverage of one dose of MMR remained stable this quarter at 95.6%. Coverage of a full course (two doses of MMR) of immunisation against rubella in 16 year old girls this quarter was 91.2% and coverage of only one dose was 96.0%. National coverage of the Td/IPV⁷ teenage booster in children reaching 16 years of age this quarter was 82.6% (Tables 2 and 9).
16. Coverage in the 2014-15 cohort of year 10 girls (girls reaching their 15th birthday during 01/09/14 to 31/08/15) of a complete three dose course of HPV vaccine is currently 87.2%. Coverage of a complete three dose course of HPV vaccine in girls reaching their 16th birthday during 01/09/14 to 31/08/15 (2014-15 year 11) is currently 87.6%. Coverage of a complete three dose course of HPV vaccine in girls reaching their 17th birthday during 01/09/14 to 31/08/15 (2014-15 year 12) is currently 86.8% (Table 10).
17. Uptake of BCG⁸ immunisation is presented in Table 11. These data are based on BCG immunisations recorded in the National Community Child Health Database. BCG immunisation has been received by 7.2%, 6.9%, 7.4% and 3.7% of children reaching their first, second, fifth and 16th birthdays (respectively) during quarter two 2015⁹. Highest proportions of children given BCG by one and two years of age this quarter were seen in Cardiff LA and Newport LA.
18. Uptake data for hepatitis B immunisation, extracted from the Public Health Wales All Wales Neonatal Hepatitis B immunisation database, is presented in Table 12. 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 82%. 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 90%.

⁶ MenC teenage booster dose introduced into the childhood schedule in June 2013 (does not refer to MenACWY vaccine)

⁷ Td/IPV boosts protection against Diphtheria, Tetanus and Polio infection before entering adulthood

⁸ BCG protects against tuberculosis infection.

⁹ Numbers of eligible children for BCG are not known

Comment

Uptake of all routine primary immunisations in babies reaching their first birthday exceeded 95% again this quarter, except rotavirus vaccine where uptake was just short of 95% nationally. Uptake of the first dose of MMR vaccine in two year olds remained above 95% in Wales, a trend that has been sustained since 2013.

Although the proportion of children who are up to date with their immunisations by four years of age continued to be above 90% in two Health Boards, nationally uptake of all three vaccines (the “4 in 1” pre-school booster, Hib/MenC booster and the second dose of MMR) used to calculate this measure have decreased this quarter. There was considerable variation between Local Authority (LA) areas in the proportion of children who were up to date with all immunisations by four years of age, from 75% to 94%. Although the proportion of children up to date with their immunisations by four years of age has improved in some areas, it remains lower than 90% in three quarters of the LA areas in Wales. Improvements in timely routine uptake of the “4 in 1” pre-school booster, which reinforces protection against diphtheria, tetanus, pertussis and polio, and in the second dose of MMR, would lead to increases in the proportions of children who are fully up to date by four years of age.

This quarter represents the last School Year 8 girls to be offered the three dose HPV course following the change in the HPV schedule from a three dose course to a two dose course [1]. Coverage of a complete three dose course in girls in the 2013-14 School Year 8 was 85%. As the revised schedule recommends a gap of six to 24 months between the first and second HPV dose, in girls younger than 15 years, only uptake of the first dose of HPV vaccine is presented in girls in 2014-15 School Year 8.

Immunisations in adolescents continue on a steady upward trend. Uptake of the Meningococcal group C vaccine in 15 year olds and uptake of the “3 in 1” Td/IPV booster in 16 year olds increased further this quarter, with coverage of one and two doses of MMR vaccine in 16 year olds remaining stable at above 95% and 90%, respectively.

[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>

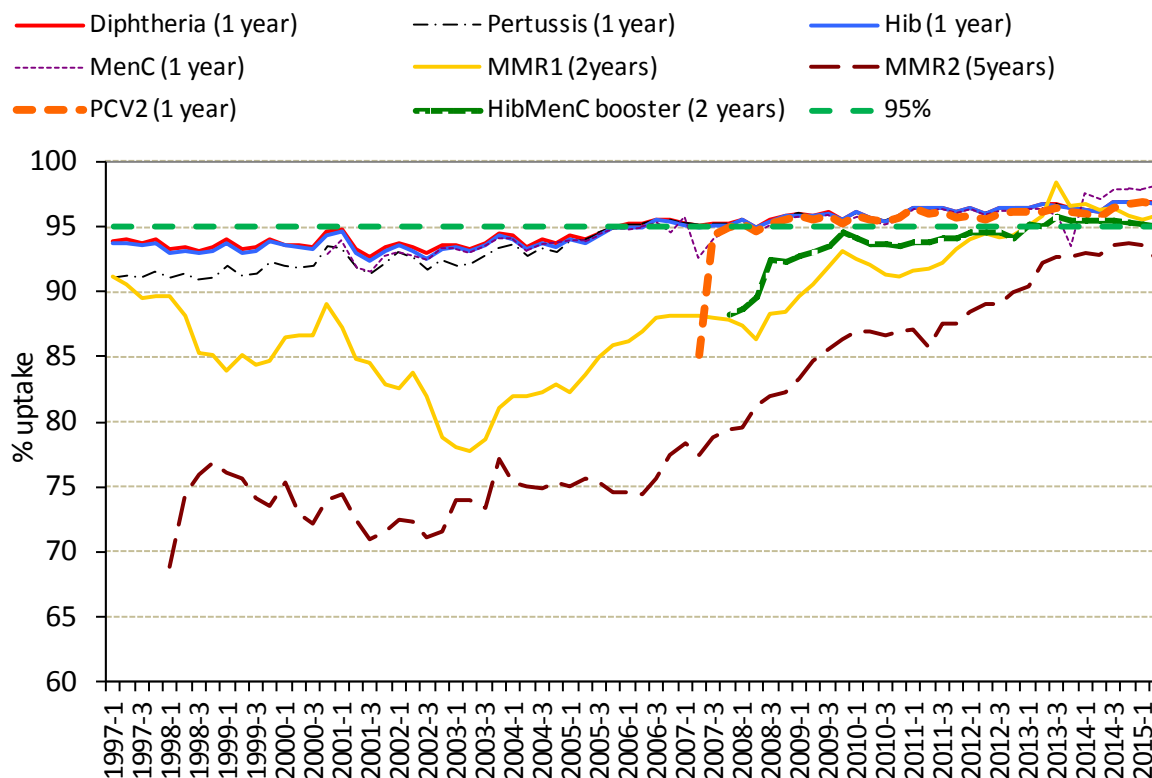
Report prepared by Public Health Wales Vaccine Preventable Disease Programme and Communicable Disease Surveillance Centre.

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.

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For further information on this report please contact: surveillance.requests@wales.nhs.uk

Figure 1. Percentage uptake of childhood immunisations in Wales, quarter 1 1997 to quarter 2 2015*. Data are for children reaching 1 year of age each quarter for diphtheria, pertussis, Hib, MenC⁹ 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 immunisations⁹ in resident children reaching their 1st, 2nd, 5th and 16th birthday between 01/04/15 and 30/06/15 and resident on 30/06/15.

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5 in 1 primary by age 1y (3 doses)	96.9%
MenC primary by age 1y (1 dose)	98.1%
Rotavirus primary by age 1yr (2 doses)	94.4%
PCV primary by age 1y (2 doses)	96.8%
MMR by age 2y (1st dose)	95.8%
PCV by age 2y (final (3rd) dose)	96.1%
Hib/MenC booster by age 2y	95.0%
MMR by age 5y (2nd dose)	92.6%
4 in 1 pre-school booster by age 5y	92.3%
MMR coverage (1 dose) by age 16y	95.6%
MMR coverage (2 doses) by age 16y	90.5%
3 in 1 Teenage booster by age 16y	82.6%

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

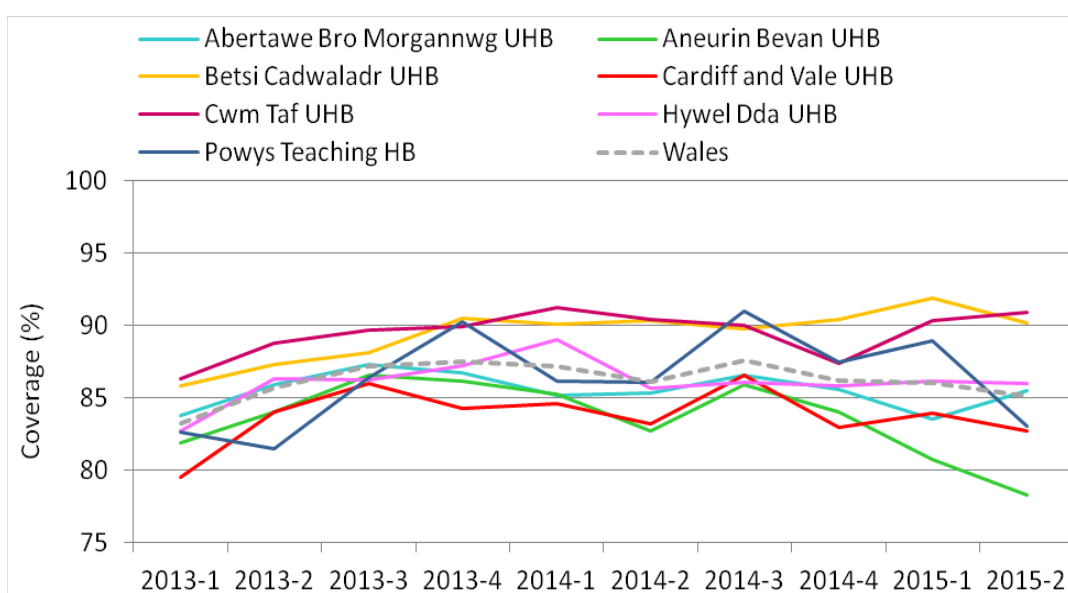
Figure 3. Percentage uptake of resident children reaching their 4th birthday between 01/04/15 and 30/06/15 and are up to date with all scheduled vaccines¹⁰ by Health Board.



Table 1. Percentages of resident children reaching their 4th birthday during quarter 2 2014 to quarter 2 2015* who are up to date with all scheduled vaccines¹⁰, by Health Board.

Area	Up to date in schedule				
	2014-2	2014-3	2014-4	2015-1	2015-2
Abertawe Bro Morgannwg UHB	85.3	86.6	85.6	83.6	85.5
Aneurin Bevan UHB	82.7	85.9	84.0	80.7	78.3
Betsi Cadwaladr UHB	90.3	89.8	90.4	91.9	90.2
Cardiff and Vale UHB	83.2	86.6	83.0	84.0	82.7
Cwm Taf UHB	90.4	90.0	87.4	90.3	90.9
Hywel Dda UHB	85.7	86.1	85.8	86.1	86.0
Powys Teaching HB	86.1	91.0	87.5	88.9	83.0
Wales	86.1	87.6	86.2	86.1	85.1

Figure 4. Trends in the percentages of children reaching their 4th birthday who are up to date with all scheduled vaccines¹⁰, 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.

¹⁰ 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 1st birthday between 01/04/15 and 30/06/15.

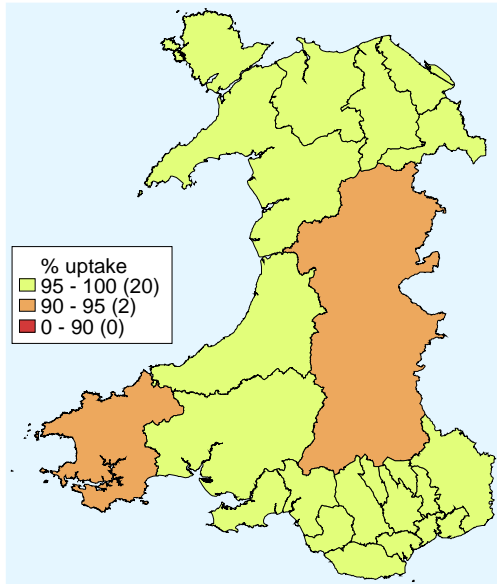


Figure 6. Uptake of at least 1 dose of MMR immunisation in Welsh Local Authority areas in children reaching their 2nd birthday between 01/04/15 and 30/06/15.

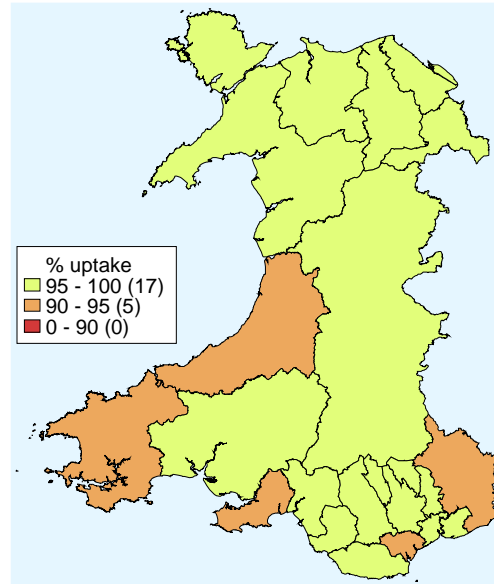


Figure 7. Uptake of two doses of MMR vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/04/15 and 30/06/15.

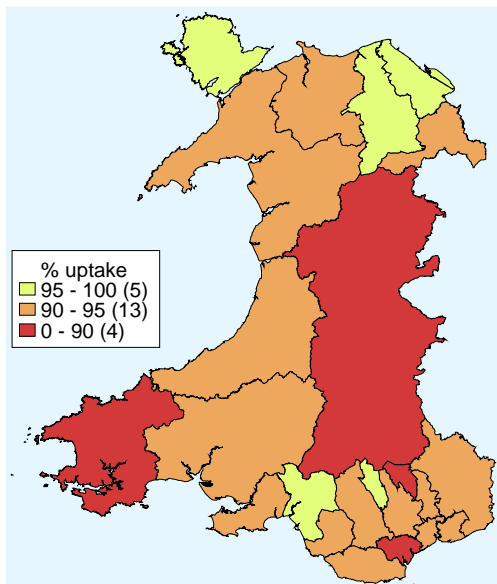


Figure 8. Uptake of “4 in 1” vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/04/15 and 30/06/15.

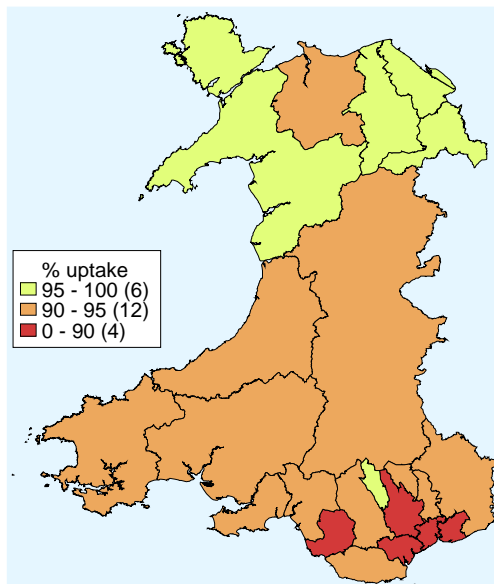


Table 3. Vaccine uptake in children reaching their 1st birthday between 01/04/15 and 30/06/15 and resident on 30/06/15.

Area	Resident children	D3	T3	P3	Po3	Hib3	MMR1	MenC ¹	Rotavirus	PCV2 ²	HibMenC
	(n)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)
Abertawe Bro Morgannwg University HB											
Bridgend LA	356	344 96.6	344 96.6	344 96.6	344 96.6	344 96.6	0 0.0	348 97.8	341 95.8	343 96.3	0 0.0
Neath Port Talbot LA	361	354 98.1	354 98.1	354 98.1	354 98.1	354 98.1	3 0.8	356 98.6	350 97.0	351 97.2	3 0.8
Swansea LA	601	584 97.2	584 97.2	584 97.2	584 97.2	583 97.0	5 0.8	593 98.7	572 95.2	584 97.2	5 0.8
Health Board Total	1318	1282 97.3	1282 97.3	1282 97.3	1282 97.3	1281 97.2	8 0.6	1297 98.4	1263 95.8	1278 97.0	8 0.6
Aneurin Bevan University HB											
Blaenau Gwent LA	184	179 97.3	179 97.3	179 97.3	179 97.3	179 97.3	0 0.0	179 97.3	160 87.0	179 97.3	0 0.0
Caerphilly LA	498	489 98.2	489 98.2	489 98.2	489 98.2	489 98.2	0 0.0	496 99.6	484 97.2	491 98.6	0 0.0
Monmouthshire LA	175	170 97.1	170 97.1	170 97.1	170 97.1	170 97.1	0 0.0	172 98.3	155 88.6	170 97.1	0 0.0
Newport LA	442	430 97.3	430 97.3	430 97.3	430 97.3	430 97.3	0 0.0	436 98.6	419 94.8	430 97.3	0 0.0
Torfaen LA	245	236 96.3	236 96.3	236 96.3	236 96.3	236 96.3	0 0.0	239 97.6	225 91.8	235 95.9	0 0.0
Health Board Total	1544	1504 97.4	1504 97.4	1504 97.4	1504 97.4	1504 97.4	0 0.0	1522 98.6	1443 93.5	1505 97.5	0 0.0
Betsi Cadwaladr University HB											
Anglesey LA	209	200 95.7	200 95.7	200 95.7	200 95.7	200 95.7	0 0.0	205 98.1	196 93.8	201 96.2	0 0.0
Conwy LA	286	277 96.9	277 96.9	277 96.9	277 96.9	277 96.9	3 1.0	281 98.3	274 95.8	276 96.5	3 1.0
Denbighshire LA	265	253 95.5	253 95.5	253 95.5	253 95.5	253 95.5	1 0.4	261 98.5	250 94.3	254 95.8	1 0.4
Flintshire LA	392	386 98.5	386 98.5	386 98.5	386 98.5	386 98.5	2 0.5	389 99.2	375 95.7	386 98.5	2 0.5
Gwynedd LA	283	273 96.5	273 96.5	273 96.5	273 96.5	273 96.5	1 0.4	271 95.8	260 91.9	271 95.8	1 0.4
Wrexham LA	384	378 98.4	378 98.4	378 98.4	378 98.4	378 98.4	1 0.3	381 99.2	368 95.8	378 98.4	1 0.3
Health Board Total	1819	1767 97.1	1767 97.1	1767 97.1	1767 97.1	1767 97.1	8 0.4	1788 98.3	1723 94.7	1766 97.1	8 0.4
Cardiff and Vale University HB											
Cardiff LA	1071	1019 95.1	1019 95.1	1019 95.1	1019 95.1	1017 95.0	3 0.3	1037 96.8	962 89.8	1014 94.7	3 0.3
Vale of Glamorgan LA	316	309 97.8	309 97.8	309 97.8	309 97.8	309 97.8	0 0.0	310 98.1	305 96.5	309 97.8	0 0.0
Health Board Total	1387	1328 95.7	1328 95.7	1328 95.7	1328 95.7	1326 95.6	3 0.2	1347 97.1	1267 91.3	1323 95.4	3 0.2
Cwm Taf University HB											
Merthyr Tydfil LA	176	172 97.7	172 97.7	172 97.7	172 97.7	172 97.7	1 0.6	174 98.9	172 97.7	172 97.7	1 0.6
Rhondda Cynon Taf LA	651	640 98.3	640 98.3	640 98.3	639 98.2	639 98.2	1 0.2	644 98.9	636 97.7	640 98.3	1 0.2
Health Board Total	827	812 98.2	812 98.2	812 98.2	811 98.1	811 98.1	2 0.2	818 98.9	808 97.7	812 98.2	2 0.2
Hywel Dda University HB											
Carmarthenshire LA	433	422 97.5	422 97.5	422 97.5	422 97.5	422 97.5	2 0.5	427 98.6	423 97.7	423 97.7	3 0.7
Ceredigion LA	136	133 97.8	133 97.8	133 97.8	133 97.8	133 97.8	0 0.0	133 97.8	127 93.4	133 97.8	0 0.0
Pembrokeshire LA	309	292 94.5	292 94.5	292 94.5	292 94.5	292 94.5	1 0.3	298 96.4	291 94.2	293 94.8	1 0.3
Health Board Total	878	847 96.5	847 96.5	847 96.5	847 96.5	847 96.5	3 0.3	858 97.7	841 95.8	849 96.7	4 0.5
Powys Teaching HB											
Unknown	279	262 93.9	262 93.9	262 93.9	262 93.9	262 93.9	3 1.1	267 95.7	255 91.4	261 93.5	3 1.1
Wales Total	8060	7810 96.9	7810 96.9	7810 96.9	7810 96.9	7809 96.9	27 0.3	7905 98.1	7608 94.4	7802 96.8	28 0.3

¹ Uptake of a completed one dose primary course of MenC vaccination.

² Full primary two dose course of pneumococcal conjugate vaccine.

Table 4. Vaccine uptake in children reaching their 2nd birthday between 01/04/15 and 30/06/15 and resident on 30/06/15.

Area	Resident children	D3	T3	P3	Po3	Hib3	MMR1	MenC ¹	PCV2 ²	PCVf ³	HibMenC
	(n)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)
Abertawe Bro Morgannwg University HB											
Bridgend LA	350	344 98.3	344 98.3	344 98.3	343 98.0	341 97.4	339 96.9	341 97.4	338 96.6	338 96.6	334 95.4
Neath Port Talbot LA	335	331 98.8	331 98.8	331 98.8	331 98.8	331 98.8	319 95.2	331 98.8	327 97.6	322 96.1	321 95.8
Swansea LA	641	624 97.3	624 97.3	624 97.3	622 97.0	622 97.0	604 94.2	618 96.4	614 95.8	605 94.4	600 93.6
Health Board Total	1326	1299 98.0	1299 98.0	1299 98.0	1296 97.7	1294 97.6	1262 95.2	1290 97.3	1279 96.5	1265 95.4	1255 94.6
Aneurin Bevan University HB											
Blaenau Gwent LA	186	184 98.9	184 98.9	184 98.9	184 98.9	184 98.9	182 97.8	184 98.9	182 97.8	184 98.9	182 97.8
Caerphilly LA	466	460 98.7	460 98.7	460 98.7	460 98.7	460 98.7	455 97.6	461 98.9	454 97.4	456 97.9	450 96.6
Monmouthshire LA	209	200 95.7	200 95.7	200 95.7	200 95.7	200 95.7	196 93.8	199 95.2	199 95.2	198 94.7	197 94.3
Newport LA	498	479 96.2	479 96.2	479 96.2	479 96.2	479 96.2	474 95.2	474 95.2	467 93.8	474 95.2	468 94.0
Torfaen LA	252	250 99.2	250 99.2	250 99.2	250 99.2	250 99.2	247 98.0	249 98.8	249 98.8	247 98.0	245 97.2
Health Board Total	1611	1573 97.6	1573 97.6	1573 97.6	1573 97.6	1573 97.6	1554 96.5	1567 97.3	1551 96.3	1559 96.8	1542 95.7
Betsi Cadwaladr University HB											
Anglesey LA	188	185 98.4	185 98.4	185 98.4	185 98.4	185 98.4	180 95.7	184 97.9	185 98.4	183 97.3	183 97.3
Conwy LA	259	256 98.8	256 98.8	256 98.8	256 98.8	256 98.8	252 97.3	257 99.2	253 97.7	255 98.5	253 97.7
Denbighshire LA	259	252 97.3	252 97.3	252 97.3	252 97.3	252 97.3	249 96.1	253 97.7	248 95.8	249 96.1	246 95.0
Flintshire LA	402	395 98.3	395 98.3	395 98.3	395 98.3	393 97.8	388 96.5	388 96.5	389 96.8	388 96.5	389 96.8
Gwynedd LA	281	273 97.2	273 97.2	273 97.2	273 97.2	273 97.2	270 96.1	268 95.4	268 95.4	273 97.2	271 96.4
Wrexham LA	402	393 97.8	393 97.8	393 97.8	392 97.5	393 97.8	389 96.8	392 97.5	386 96.0	390 97.0	384 95.5
Health Board Total	1791	1754 97.9	1754 97.9	1754 97.9	1753 97.9	1752 97.8	1728 96.5	1742 97.3	1729 96.5	1738 97.0	1726 96.4
Cardiff and Vale University HB											
Cardiff LA	1074	1034 96.3	1034 96.3	1034 96.3	1034 96.3	1034 96.3	1006 93.7	1000 93.1	988 92.0	1007 93.8	977 91.0
Vale of Glamorgan LA	327	319 97.6	319 97.6	319 97.6	319 97.6	319 97.6	316 96.6	315 96.3	314 96.0	317 96.9	317 96.9
Health Board Total	1401	1353 96.6	1353 96.6	1353 96.6	1353 96.6	1353 96.6	1322 94.4	1315 93.9	1302 92.9	1324 94.5	1294 92.4
Cwm Taf University HB											
Merthyr Tydfil LA	165	164 99.4	164 99.4	164 99.4	164 99.4	164 99.4	161 97.6	163 98.8	162 98.2	161 97.6	161 97.6
Rhondda Cynon Taf LA	650	643 98.9	643 98.9	643 98.9	643 98.9	643 98.9	636 97.8	637 98.0	636 97.8	636 97.8	633 97.4
Health Board Total	815	807 99.0	807 99.0	807 99.0	807 99.0	807 99.0	797 97.8	800 98.2	798 97.9	797 97.8	794 97.4
Hywel Dda University HB											
Carmarthenshire LA	452	444 98.2	444 98.2	444 98.2	444 98.2	444 98.2	436 96.5	444 98.2	436 96.5	440 97.3	433 95.8
Ceredigion LA	140	133 95.0	133 95.0	133 95.0	133 95.0	133 95.0	131 93.6	132 94.3	133 95.0	131 93.6	130 92.9
Pembrokeshire LA	279	262 93.9	262 93.9	262 93.9	262 93.9	262 93.9	255 91.4	266 95.3	258 92.5	257 92.1	254 91.0
Health Board Total	871	839 96.3	839 96.3	839 96.3	839 96.3	839 96.3	822 94.4	842 96.7	827 94.9	828 95.1	817 93.8
Powys Teaching HB											
Unknown	27	27 100.0	27 100.0	27 100.0	27 100.0	27 100.0	26 96.3	27 100.0	27 100.0	26 96.3	26 96.3
Wales Total	8126	7928 97.6	7928 97.6	7928 97.6	7924 97.5	7921 97.5	7781 95.8	7857 96.7	7785 95.8	7810 96.1	7722 95.0

¹ Uptake of a completed one dose primary course of MenC vaccination.

² Full primary two dose course of pneumococcal conjugate vaccine.

³ Final (booster) dose of pneumococcal conjugate vaccine.

Table 5. Vaccine uptake in children reaching their 4th birthday between 01/04/15 and 30/06/15 and resident on 30/06/15.

Area	Resident children (n)	4 in 1 Preschool Booster ¹		HibMenC		MMR dose 2		Up to date in schedule ²	
		(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
<u>Abertawe Bro Morgannwg University HB</u>									
Bridgend LA	455	394	86.6	440	96.7	419	92.1	390	85.7
Neath Port Talbot LA	385	335	87.0	363	94.3	343	89.1	323	83.9
Swansea LA	635	558	87.9	609	95.9	595	93.7	548	86.3
Health Board Total	1475	1287	87.3	1412	95.7	1357	92.0	1261	85.5
<u>Aneurin Bevan University HB</u>									
Blaenau Gwent LA	195	166	85.1	188	96.4	168	86.2	163	83.6
Caerphilly LA	492	372	75.6	480	97.6	398	80.9	369	75.0
Monmouthshire LA	218	193	88.5	201	92.2	192	88.1	187	85.8
Newport LA	497	386	77.7	465	93.6	403	81.1	371	74.6
Torfaen LA	306	250	81.7	298	97.4	259	84.6	247	80.7
Health Board Total	1708	1367	80.0	1632	95.6	1420	83.1	1337	78.3
<u>Betsi Cadwaladr University HB</u>									
Anglesey LA	208	195	93.8	201	96.6	191	91.8	190	91.3
Conwy LA	296	263	88.9	283	95.6	261	88.2	260	87.8
Denbighshire LA	274	244	89.1	259	94.5	241	88.0	238	86.9
Flintshire LA	436	421	96.6	421	96.6	415	95.2	410	94.0
Gwynedd LA	320	297	92.8	301	94.1	290	90.6	286	89.4
Wrexham LA	408	375	91.9	392	96.1	373	91.4	367	90.0
Health Board Total	1942	1795	92.4	1857	95.6	1771	91.2	1751	90.2
<u>Cardiff and Vale University HB</u>									
Cardiff LA	1105	942	85.2	1012	91.6	928	84.0	893	80.8
Vale of Glamorgan LA	409	363	88.8	395	96.6	365	89.2	359	87.8
Health Board Total	1514	1305	86.2	1407	92.9	1293	85.4	1252	82.7
<u>Cwm Taf University HB</u>									
Merthyr Tydfil LA	173	163	94.2	168	97.1	160	92.5	159	91.9
Rhondda Cynon Taf LA	673	622	92.4	658	97.8	622	92.4	610	90.6
Health Board Total	846	785	92.8	826	97.6	782	92.4	769	90.9
<u>Hywel Dda University HB</u>									
Carmarthenshire LA	480	406	84.6	457	95.2	425	88.5	400	83.3
Ceredigion LA	156	147	94.2	147	94.2	146	93.6	142	91.0
Pembrokeshire LA	291	259	89.0	280	96.2	259	89.0	255	87.6
Health Board Total	927	812	87.6	884	95.4	830	89.5	797	86.0
<u>Powys Teaching HB</u>	353	314	89.0	322	91.2	302	85.6	293	83.0
Unknown	28	26	92.9	27	96.4	26	92.9	26	92.9
Wales Total	8793	7691	87.5	8367	95.2	7781	88.5	7486	85.1

¹ Uptake of acellular pertussis used as proxy

² 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 01/04/15 and 30/06/15 and resident on 30/06/15.

Area	Resident children	D3	T3	P3	Po3	Hib3	MenC ¹	PCVf ²	HibMenC	MMR1	MMR2	D4	T4	aP	Po4
	(n)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)
Abertawe Bro Morgannwg University HB															
Bridgend LA	360	348 96.7	348 96.7	348 96.7	348 96.7	348 96.7	340 94.4	334 92.8	335 93.1	343 95.3	326 90.6	311 86.4	311 86.4	311 86.4	311 86.4
Neath Port Talbot LA	392	384 98.0	384 98.0	384 98.0	384 98.0	385 98.2	381 97.2	377 96.2	380 96.9	386 98.5	374 95.4	359 91.6	359 91.6	359 91.6	359 91.6
Swansea LA	619	601 97.1	601 97.1	601 97.1	600 96.9	598 96.6	589 95.2	581 93.9	587 94.8	598 96.6	575 92.9	569 91.9	569 91.9	569 91.9	568 91.8
Health Board Total	1371	1333 97.2	1333 97.2	1333 97.2	1332 97.2	1331 97.1	1310 95.6	1292 94.2	1302 95.0	1327 96.8	1275 93.0	1239 90.4	1239 90.4	1239 90.4	1238 90.3
Aneurin Bevan University HB															
Blaenau Gwent LA	208	197 94.7	197 94.7	197 94.7	197 94.7	197 94.7	195 93.8	190 91.3	190 91.3	197 94.7	186 89.4	189 90.9	189 90.9	189 90.9	189 90.9
Caerphilly LA	534	527 98.7	527 98.7	527 98.7	526 98.5	526 98.5	519 97.2	514 96.3	514 96.3	528 98.9	494 92.5	474 88.8	474 88.8	473 88.6	473 88.6
Monmouthshire LA	224	211 94.2	211 94.2	211 94.2	211 94.2	211 94.2	206 92.0	207 92.4	211 94.2	214 95.5	205 91.5	207 92.4	207 92.4	207 92.4	207 92.4
Newport LA	484	465 96.1	465 96.1	465 96.1	463 95.7	463 95.7	449 92.8	449 92.8	439 90.7	464 95.9	439 90.7	432 89.3	432 89.3	432 89.3	432 89.3
Torfaen LA	294	291 99.0	291 99.0	291 99.0	291 99.0	291 99.0	286 97.3	286 97.3	285 96.9	291 99.0	277 94.2	278 94.6	278 94.6	278 94.6	278 94.6
Health Board Total	1744	1691 97.0	1691 97.0	1691 97.0	1688 96.8	1688 96.8	1655 94.9	1646 94.4	1639 94.0	1694 97.1	1601 91.8	1580 90.6	1580 90.6	1579 90.5	1579 90.5
Betsi Cadwaladr University HB															
Anglesey LA	184	181 98.4	181 98.4	181 98.4	181 98.4	181 98.4	180 97.8	179 97.3	181 98.4	181 98.4	181 98.4	181 98.4	181 98.4	181 98.4	180 97.8
Conwy LA	272	270 99.3	270 99.3	270 99.3	269 98.9	269 98.9	262 96.3	260 95.6	265 97.4	269 98.9	255 93.8	257 94.5	257 94.5	257 94.5	257 94.5
Denbighshire LA	264	255 96.6	255 96.6	255 96.6	255 96.6	255 96.6	248 93.9	254 96.2	254 96.2	258 97.7	252 95.5	254 96.2	254 96.2	253 95.8	254 96.2
Flintshire LA	463	457 98.7	457 98.7	457 98.7	456 98.5	455 98.3	447 96.5	443 95.7	451 97.4	451 97.4	441 95.2	449 97.0	449 97.0	449 97.0	448 96.8
Gwynedd LA	318	310 97.5	310 97.5	310 97.5	310 97.5	310 97.5	302 95.0	305 95.9	304 95.6	311 97.8	301 94.7	306 96.2	306 96.2	306 96.2	306 96.2
Wrexham LA	380	372 97.9	372 97.9	372 97.9	369 97.1	371 97.6	361 95.0	367 96.6	365 96.1	377 99.2	360 94.7	366 96.3	366 96.3	366 96.3	366 96.3
Health Board Total	1881	1845 98.1	1845 98.1	1845 98.1	1840 97.8	1841 97.9	1800 95.7	1808 96.1	1820 96.8	1847 98.2	1790 95.2	1813 96.4	1813 96.4	1812 96.3	1811 96.3
Cardiff and Vale University HB															
Cardiff LA	1119	1070 95.6	1070 95.6	1069 95.5	1069 95.5	1061 94.8	1005 89.8	1013 90.5	1010 90.3	1082 96.7	992 88.7	997 89.1	997 89.1	997 89.1	997 89.1
Vale of Glamorgan LA	367	361 98.4	361 98.4	361 98.4	361 98.4	361 98.4	349 95.1	351 95.6	349 95.1	364 99.2	347 94.6	348 94.8	348 94.8	348 94.8	348 94.8
Health Board Total	1486	1431 96.3	1431 96.3	1430 96.2	1430 96.2	1422 95.7	1354 91.1	1364 91.8	1359 91.5	1446 97.3	1339 90.1	1345 90.5	1345 90.5	1345 90.5	1345 90.5
Cwm Taf University HB															
Merthyr Tydfil LA	164	160 97.6	160 97.6	160 97.6	160 97.6	160 97.6	154 93.9	154 93.9	156 95.1	159 97.0	158 96.3	159 97.0	159 97.0	158 96.3	158 96.3
Rhondda Cynon Taf LA	636	624 98.1	624 98.1	624 98.1	624 98.1	623 98.0	618 97.2	619 97.3	614 96.5	625 98.3	598 94.0	603 94.8	603 94.8	603 94.8	603 94.8
Health Board Total	800	784 98.0	784 98.0	784 98.0	784 98.0	783 97.9	772 96.5	773 96.6	770 96.3	784 98.0	756 94.5	762 95.3	762 95.3	762 95.3	761 95.1
Hywel Dda University HB															
Carmarthenshire LA	466	455 97.6	455 97.6	455 97.6	455 97.6	454 97.4	447 95.9	440 94.4	442 94.8	459 98.5	437 93.8	423 90.8	423 90.8	423 90.8	423 90.8
Ceredigion LA	158	151 95.6	151 95.6	151 95.6	151 95.6	151 95.6	148 93.7	146 92.4	149 94.3	147 93.0	144 91.1	148 93.7	148 93.7	148 93.7	148 93.7
Pembrokeshire LA	310	295 95.2	295 95.2	295 95.2	295 95.2	295 95.2	292 94.2	283 91.3	287 92.6	293 94.5	274 88.4	279 90.0	279 90.0	279 90.0	279 90.0
Health Board Total	934	901 96.5	901 96.5	901 96.5	901 96.5	900 96.4	887 95.0	869 93.0	878 94.0	899 96.3	855 91.5	850 91.0	850 91.0	850 91.0	850 91.0
Powys Teaching HB	307	292 95.1	292 95.1	292 95.1	291 94.8	291 94.8	278 90.6	282 91.9	283 92.2	292 95.1	275 89.6	281 91.5	281 91.5	281 91.5	281 91.5
Unknown	19	17 89.5	17 89.5	17 89.5	17 89.5	17 89.5	17 89.5	17 89.5	17 89.5	18 94.7	17 89.5	18 94.7	18 94.7	18 94.7	17 89.5
Wales Total	8542	8294 97.1	8294 97.1	8293 97.1	8283 97.0	8273 96.9	8073 94.5	8051 94.3	8068 94.5	8307 97.2	7908 92.6	7888 92.3	7888 92.3	7886 92.3	7882 92.3

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

² Final (booster) dose of pneumococcal conjugate vaccine

Table 7. Uptake of HPV vaccine in girls reaching 13 and 14 years of age between 01/09/14 and 31/08/15 and resident on 30/06/15.

Area	13 years (2014-15 School Year 8) ¹			14 years (2014-15 School Year 9) ²						
	Resident girls (n)	HPV 1 dose (n)	(%)	Resident girls (n)	HPV 1 dose (n)	(%)	HPV 2 doses (n)	(%)	HPV 3 doses (n)	(%)
Abertawe Bro Morgannwg University HB										
Bridgend LA	718	635	88.4	811	703	86.7	703	86.7	674	83.1
Neath Port Talbot LA	667	601	90.1	663	603	91.0	603	91.0	581	87.6
Swansea LA	1184	1060	89.5	1238	1082	87.4	1082	87.4	1061	85.7
Health Board Total	2569	2296	89.4	2712	2388	88.1	2388	88.1	2316	85.4
Aneurin Bevan University HB										
Blaenau Gwent LA	339	315	92.9	343	320	93.3	320	93.3	305	88.9
Caerphilly LA	886	807	91.1	912	838	91.9	837	91.8	812	89.0
Monmouthshire LA	464	374	80.6	476	353	74.2	351	73.7	341	71.6
Newport LA	902	736	81.6	840	685	81.5	685	81.5	655	78.0
Torfaen LA	487	441	90.6	511	458	89.6	458	89.6	447	87.5
Health Board Total	3078	2673	86.8	3082	2654	86.1	2651	86.0	2560	83.1
Betsi Cadwaladr University HB										
Anglesey LA	348	301	86.5	353	315	89.2	314	89.0	302	85.6
Conwy LA	523	448	85.7	606	542	89.4	541	89.3	531	87.6
Denbighshire LA	455	380	83.5	517	467	90.3	468	90.5	458	88.6
Flintshire LA	791	645	81.5	798	717	89.8	717	89.8	704	88.2
Gwynedd LA	548	383	69.9	589	527	89.5	527	89.5	519	88.1
Wrexham LA	610	485	79.5	679	610	89.8	606	89.2	599	88.2
Health Board Total	3275	2642	80.7	3542	3178	89.7	3173	89.6	3113	87.9
Cardiff and Vale University HB										
Cardiff LA	1688	1384	82.0	1700	1366	80.4	1367	80.4	1279	75.2
Vale of Glamorgan LA	629	551	87.6	637	528	82.9	530	83.2	500	78.5
Health Board Total	2317	1935	83.5	2337	1894	81.0	1897	81.2	1779	76.1
Cwm Taf University HB										
Merthyr Tydfil LA	279	261	93.5	278	259	93.2	258	92.8	257	92.4
Rhondda Cynon Taf LA	1121	1072	95.6	1155	1079	93.4	1079	93.4	1067	92.4
Health Board Total	1400	1333	95.2	1433	1338	93.4	1337	93.3	1324	92.4
Hywel Dda University HB										
Carmarthenshire LA	852	782	91.8	826	763	92.4	763	92.4	754	91.3
Ceredigion LA	301	260	86.4	280	256	91.4	256	91.4	252	90.0
Pembrokeshire LA	520	445	85.6	545	461	84.6	460	84.4	447	82.0
Health Board Total	1673	1487	88.9	1651	1480	89.6	1479	89.6	1453	88.0
Powys Teaching HB	601	500	83.2	606	489	80.7	489	80.7	472	77.9
Unknown	57	43	75.4	80	63	78.8	63	78.8	61	76.3
Wales Total	14970	12909	86.2	15443	13484	87.3	13477	87.3	13078	84.7

¹ Current two dose HPV vaccine schedule, data entry for immunisation sessions may still be underway.

² Represents the last School Year 8 group (2013-14) to receive the three dose HPV schedule.

Table 8. MMR and Td/IPV vaccine uptake in children reaching their 15th birthday between 01/04/15 and 30/06/15 and resident on 30/06/15 (with breakdown of MMR1 and MMR2 coverage by sex).

Area	Resident children		Teenage 3 in 1 booster ¹						Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
Abertawe Bro Morgannwg University HB	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	
Bridgend LA	356	345	96.9	318	89.3	306	86.0	305	85.7	177	169	95.5	156	88.1	179	176	98.3	162	90.5	
Neath Port Talbot LA	349	334	95.7	320	91.7	305	87.4	303	86.8	171	165	96.5	159	93.0	178	169	94.9	161	90.4	
Swansea LA	618	581	94.0	544	88.0	544	88.0	542	87.7	299	277	92.6	261	87.3	319	304	95.3	283	88.7	
Health Board Total	1323	1260	95.2	1182	89.3	1155	87.3	1150	86.9	647	611	94.4	576	89.0	676	649	96.0	606	89.6	
Aneurin Bevan University HB																				
Blaenau Gwent LA	162	156	96.3	148	91.4	140	86.4	140	86.4	77	73	94.8	70	90.9	85	83	97.6	78	91.8	
Caerphilly LA	493	478	97.0	460	93.3	414	84.0	408	82.8	237	231	97.5	224	94.5	256	247	96.5	236	92.2	
Monmouthshire LA	265	234	88.3	218	82.3	193	72.8	189	71.3	144	131	91.0	123	85.4	121	103	85.1	95	78.5	
Newport LA	478	442	92.5	410	85.8	359	75.1	354	74.1	223	208	93.3	193	86.5	253	233	92.1	216	85.4	
Torfaen LA	254	245	96.5	231	90.9	199	78.3	192	75.6	113	109	96.5	100	88.5	141	136	96.5	131	92.9	
Health Board Total	1652	1555	94.1	1467	88.8	1305	79.0	1283	77.7	794	752	94.7	710	89.4	856	802	93.7	756	88.3	
Betsi Cadwaladr University HB																				
Anglesey LA	174	168	96.6	158	90.8	145	83.3	140	80.5	74	72	97.3	66	89.2	100	96	96.0	92	92.0	
Conwy LA	304	288	94.7	275	90.5	271	89.1	272	89.5	145	139	95.9	132	91.0	159	149	93.7	143	89.9	
Denbighshire LA	248	236	95.2	225	90.7	202	81.5	201	81.0	123	115	93.5	108	87.8	125	121	96.8	117	93.6	
Flintshire LA	380	365	96.1	350	92.1	328	86.3	323	85.0	186	175	94.1	169	90.9	194	190	97.9	181	93.3	
Gwynedd LA	338	324	95.9	314	92.9	301	89.1	299	88.5	161	156	96.9	151	93.8	177	168	94.9	163	92.1	
Wrexham LA	380	359	94.5	348	91.6	307	80.8	294	77.4	176	168	95.5	163	92.6	204	191	93.6	185	90.7	
Health Board Total	1824	1740	95.4	1670	91.6	1554	85.2	1529	83.8	865	825	95.4	789	91.2	959	915	95.4	881	91.9	
Cardiff and Vale University HB																				
Cardiff LA	892	830	93.0	780	87.4	670	75.1	626	70.2	436	405	92.9	383	87.8	456	425	93.2	397	87.1	
Vale of Glamorgan LA	341	329	96.5	318	93.3	280	82.1	255	74.8	167	161	96.4	156	93.4	174	168	96.6	162	93.1	
Health Board Total	1233	1159	94.0	1098	89.1	950	77.0	881	71.5	603	566	93.9	539	89.4	630	593	94.1	559	88.7	
Cwm Taf University HB																				
Merthyr Tydfil LA	142	138	97.2	127	89.4	136	95.8	136	95.8	70	68	97.1	61	87.1	72	70	97.2	66	91.7	
Rhondda Cynon Taf LA	568	542	95.4	504	88.7	520	91.5	519	91.4	290	278	95.9	265	91.4	278	264	95.0	239	86.0	
Health Board Total	710	680	95.8	631	88.9	656	92.4	655	92.3	360	346	96.1	326	90.6	350	334	95.4	305	87.1	
Hywel Dda University HB																				
Carmarthenshire LA	379	350	92.3	326	86.0	311	82.1	305	80.5	166	151	91.0	143	86.1	213	199	93.4	183	85.9	
Ceredigion LA	153	145	94.8	141	92.2	131	85.6	131	85.6	79	75	94.9	73	92.4	74	70	94.6	68	91.9	
Pembrokeshire LA	295	283	95.9	262	88.8	240	81.4	232	78.6	150	148	98.7	135	90.0	145	135	93.1	127	87.6	
Health Board Total	827	778	94.1	729	88.1	682	82.5	668	80.8	395	374	94.7	351	88.9	432	404	93.5	378	87.5	
Powys Teaching HB	334	305	91.3	280	83.8	265	79.3	236	70.7	158	141	89.2	130	82.3	176	164	93.2	150	85.2	
Unknown	41	37	90.2	34	82.9	34	82.9	32	78.0	19	18	94.7	16	84.2	22	19	86.4	18	81.8	
Wales Total	7944	7514	94.6	7091	89.3	6601	83.1	6434	81.0	3841	3633	94.6	3437	89.5	4101	3880	94.6	3653	89.1	

¹ Teenage booster dose of diphtheria, tetanus and polio (diphtheria used as proxy)

² MenC teenage booster

Table 9. MMR and Td/IPV vaccine uptake in children reaching their 16th birthday 01/04/15 and 30/06/15 and resident on 30/06/15 (with breakdown of MMR1 and MMR2 coverage by sex).

Area	Resident children		Teenage 3 in 1 booster ¹					Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n) (%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n) (%)	(n)	(%)	(n)	(n) (%)	(n)	(%)	(n)	(%)	
<u>Abertawe Bro Morgannwg University HB</u>	(n)	(n) (%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n) (%)	(n)	(%)	(n)	(n) (%)	(n)	(%)	(n)	(%)	
Bridgend LA	390	375 96.2	359	92.1	285	73.1	188	184 97.9	176	93.6	202	191 94.6	183	90.6					
Neath Port Talbot LA	328	322 98.2	297	90.5	280	85.4	164	161 98.2	153	93.3	164	161 98.2	144	87.8					
Swansea LA	651	625 96.0	591	90.8	577	88.6	324	314 96.9	296	91.4	327	311 95.1	295	90.2					
Health Board Total	1369	1322 96.6	1247	91.1	1142	83.4	676	659 97.5	625	92.5	693	663 95.7	622	89.8					
<u>Aneurin Bevan University HB</u>																			
Blaenau Gwent LA	182	179 98.4	170	93.4	146	80.2	83	82 98.8	78	94.0	99	97 98.0	92	92.9					
Caerphilly LA	489	479 98.0	452	92.4	395	80.8	238	235 98.7	220	92.4	251	244 97.2	232	92.4					
Monmouthshire LA	291	269 92.4	249	85.6	226	77.7	145	133 91.7	127	87.6	146	136 93.2	122	83.6					
Newport LA	470	448 95.3	419	89.1	371	78.9	230	224 97.4	212	92.2	240	224 93.3	207	86.3					
Torfaen LA	265	260 98.1	243	91.7	205	77.4	130	128 98.5	117	90.0	134	132 98.5	126	94.0					
Health Board Total	1697	1635 96.3	1533	90.3	1343	79.1	826	802 97.1	754	91.3	870	833 95.7	779	89.5					
<u>Betsi Cadwaladr University HB</u>																			
Anglesey LA	188	179 95.2	173	92.0	162	86.2	91	88 96.7	88	96.7	97	91 93.8	85	87.6					
Conwy LA	301	283 94.0	270	89.7	266	88.4	146	139 95.2	134	91.8	154	143 92.9	136	88.3					
Denbighshire LA	287	275 95.8	254	88.5	244	85.0	119	118 99.2	110	92.4	168	157 93.5	144	85.7					
Flintshire LA	410	395 96.3	373	91.0	361	88.0	189	186 98.4	176	93.1	221	209 94.6	197	89.1					
Gwynedd LA	327	309 94.5	297	90.8	280	85.6	149	140 94.0	135	90.6	178	169 94.9	162	91.0					
Wrexham LA	370	362 97.8	350	94.6	312	84.3	182	177 97.3	173	95.1	188	185 98.4	177	94.1					
Health Board Total	1883	1803 95.8	1717	91.2	1625	86.3	876	848 96.8	816	93.2	1006	954 94.8	901	89.6					
<u>Cardiff and Vale University HB</u>																			
Cardiff LA	945	888 94.0	841	89.0	729	77.1	490	460 93.9	436	89.0	455	428 94.1	405	89.0					
Vale of Glamorgan LA	386	364 94.3	350	90.7	323	83.7	189	178 94.2	173	91.5	196	186 94.9	177	90.3					
Health Board Total	1331	1252 94.1	1191	89.5	1052	79.0	679	638 94.0	609	89.7	651	614 94.3	582	89.4					
<u>Cwm Taf University HB</u>																			
Merthyr Tydfil LA	152	146 96.1	139	91.4	136	89.5	73	69 94.5	66	90.4	79	77 97.5	73	92.4					
Rhondda Cynon Taf LA	626	611 97.6	586	93.6	578	92.3	313	306 97.8	293	93.6	313	305 97.4	293	93.6					
Health Board Total	778	757 97.3	725	93.2	714	91.8	386	375 97.2	359	93.0	392	382 97.4	366	93.4					
<u>Hywel Dda University HB</u>																			
Carmarthenshire LA	428	412 96.3	393	91.8	359	83.9	194	187 96.4	180	92.8	234	225 96.2	213	91.0					
Ceredigion LA	161	148 91.9	140	87.0	140	87.0	70	65 92.9	63	90.0	91	83 91.2	77	84.6					
Pembrokeshire LA	299	279 93.3	260	87.0	221	73.9	156	140 89.7	127	81.4	143	139 97.2	133	93.0					
Health Board Total	888	839 94.5	793	89.3	720	81.1	420	392 93.3	370	88.1	468	447 95.5	423	90.4					
<u>Powys Teaching HB</u>	391	366 93.6	340	87.0	296	75.7	183	172 94.0	157	85.8	208	194 93.3	183	88.0					
Unknown	42	39 92.9	37	88.1	33	78.6	21	20 95.2	18	85.7	21	19 90.5	19	90.5					
Wales Total	8379	8013 95.6	7583	90.5	6925	82.6	4067	3906 96.0	3708	91.2	4309	4106 95.3	3875	89.9					

¹ Teenage booster dose of diphtheria, tetanus and polio (diphtheria used as proxy).

Table 10. Uptake of HPV vaccine in girls reaching appropriate birthdays between 01/09/14 and 31/08/15 and resident on 30/06/15.

Area	15 years							16 years							17 years							
	Resident girls	1 dose		2 doses		3 doses		Resident girls	1 dose		2 doses		3 doses		Resident girls	1 dose		2 doses		3 doses		
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(%)	
ABM UHB																						
Bridgend LA	728	678	93.1	677	93.0	674	92.6	763	693	90.8	693	90.8	691	90.6	788	720	91.4	720	91.4	712	90.4	
Neath Port Talbot LA	648	608	93.8	606	93.5	598	92.3	728	664	91.2	662	90.9	660	90.7	775	729	94.1	730	94.2	722	93.2	
Swansea LA	1209	1091	90.2	1091	90.2	1075	88.9	1160	1042	89.8	1042	89.8	1034	89.1	1254	1122	89.5	1121	89.4	1107	88.3	
Health Board Total	2585	2377	92.0	2374	91.8	2347	90.8	2651	2399	90.5	2397	90.4	2385	90.0	2817	2571	91.3	2571	91.3	2541	90.2	
Aneurin Bevan UHB																						
Blaenau Gwent LA	370	340	91.9	340	91.9	331	89.5	379	361	95.3	362	95.5	356	93.9	401	364	90.8	362	90.3	359	89.5	
Caerphilly LA	925	833	90.1	833	90.1	825	89.2	998	923	92.5	925	92.7	919	92.1	1025	933	91.0	932	90.9	916	89.4	
Monmouthshire LA	538	426	79.2	426	79.2	421	78.3	525	413	78.7	410	78.1	405	77.1	506	384	75.9	384	75.9	380	75.1	
Newport LA	876	763	87.1	762	87.0	743	84.8	938	800	85.3	800	85.3	788	84.0	995	846	85.0	845	84.9	837	84.1	
Torfaen LA	470	413	87.9	412	87.7	401	85.3	539	491	91.1	490	90.9	479	88.9	576	522	90.6	523	90.8	519	90.1	
Health Board Total	3179	2775	87.3	2773	87.2	2721	85.6	3379	2988	88.4	2987	88.4	2947	87.2	3503	3049	87.0	3046	87.0	3011	86.0	
Betsi Cadwaladr UHB																						
Anglesey LA	339	302	89.1	303	89.4	301	88.8	359	316	88.0	316	88.0	308	85.8	357	329	92.2	329	92.2	327	91.6	
Conwy LA	584	527	90.2	526	90.1	519	88.9	590	534	90.5	534	90.5	531	90.0	565	517	91.5	516	91.3	506	89.6	
Denbighshire LA	503	441	87.7	441	87.7	437	86.9	551	492	89.3	492	89.3	489	88.7	528	485	91.9	482	91.3	475	90.0	
Flintshire LA	791	707	89.4	705	89.1	694	87.7	788	713	90.5	713	90.5	707	89.7	835	759	90.9	759	90.9	751	89.9	
Gwynedd LA	598	538	90.0	535	89.5	534	89.3	645	572	88.7	571	88.5	563	87.3	604	532	88.1	531	87.9	528	87.4	
Wrexham LA	702	617	87.9	616	87.7	609	86.8	678	603	88.9	604	89.1	603	88.9	714	649	90.9	649	90.9	648	90.8	
Health Board Total	3517	3132	89.1	3126	88.9	3094	88.0	3611	3230	89.4	3230	89.4	3201	88.6	3603	3271	90.8	3266	90.6	3235	89.8	
Cardiff & Vale UHB																						
Cardiff LA	1752	1502	85.7	1500	85.6	1440	82.2	1793	1521	84.8	1521	84.8	1462	81.5	1899	1575	82.9	1574	82.9	1517	79.9	
Vale of Glamorgan LA	697	638	91.5	639	91.7	608	87.2	722	650	90.0	651	90.2	631	87.4	813	674	82.9	670	82.4	639	78.6	
Health Board Total	2449	2140	87.4	2139	87.3	2048	83.6	2515	2171	86.3	2172	86.4	2093	83.2	2712	2249	82.9	2244	82.7	2156	79.5	
Cwm Taf UHB																						
Merthyr Tydfil LA	311	288	92.6	288	92.6	284	91.3	305	279	91.5	279	91.5	279	91.5	334	305	91.3	305	91.3	301	90.1	
Rhondda Cynon Taf LA	1180	1116	94.6	1116	94.6	1109	94.0	1240	1175	94.8	1174	94.7	1165	94.0	1283	1206	94.0	1204	93.8	1185	92.4	
Health Board Total	1491	1404	94.2	1404	94.2	1393	93.4	1545	1454	94.1	1453	94.0	1444	93.5	1617	1511	93.4	1509	93.3	1486	91.9	
Hywel Dda UHB																						
Carmarthenshire LA	738	654	88.6	655	88.8	651	88.2	804	739	91.9	739	91.9	735	91.4	832	748	89.9	747	89.8	742	89.2	
Ceredigion LA	313	272	86.9	272	86.9	269	85.9	308	264	85.7	264	85.7	261	84.7	338	286	84.6	286	84.6	281	83.1	
Pembrokeshire LA	612	531	86.8	529	86.4	521	85.1	654	558	85.3	556	85.0	539	82.4	632	545	86.2	545	86.2	537	85.0	
Health Board Total	1663	1457	87.6	1456	87.6	1441	86.7	1766	1561	88.4	1559	88.3	1535	86.9	1802	1579	87.6	1578	87.6	1560	86.6	
Powys Teaching LHB	644	519	80.6	518	80.4	509	79.0	724	606	83.7	603	83.3	594	82.0	701	593	84.6	590	84.2	578	82.5	
Unknown	72	57	79.2	57	79.2	57	79.2	75	58	77.3	58	77.3	58	77.3	98	66	67.3	65	66.3	66	67.3	
Wales Total	15600	13861	88.9	13847	88.8	13610	87.2	16266	14467	88.9	14459	88.9	14257	87.6	16853	14889	88.3	14869	88.2	14633	86.8	

Table 11. Uptake of BCG immunisation in children reaching their 1st, 2nd, 5th and 16th birthdays between 01/04/15 and 30/06/15 and resident on 30/06/15.

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	(%)
<u>Abertawe Bro Morgannwg University HB</u>	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)
Bridgend LA	356	7	2.0	350	20	5.7	360	13	3.6	390	6	1.5
Neath Port Talbot LA	361	9	2.5	335	14	4.2	392	10	2.6	328	2	0.6
Swansea LA	601	67	11.1	641	72	11.2	619	56	9.0	651	33	5.1
Health Board Total	1318	83	6.3	1326	106	8.0	1371	79	5.8	1369	41	3.0
<u>Aneurin Bevan University HB</u>												
Blaenau Gwent LA	184	5	2.7	186	4	2.2	208	4	1.9	182	2	1.1
Caerphilly LA	498	10	2.0	466	7	1.5	534	12	2.2	489	4	0.8
Monmouthshire LA	175	5	2.9	209	6	2.9	224	14	6.3	291	5	1.7
Newport LA	442	77	17.4	498	79	15.9	484	72	14.9	470	22	4.7
Torfaen LA	245	9	3.7	252	14	5.6	294	5	1.7	265	3	1.1
Health Board Total	1544	106	6.9	1611	110	6.8	1744	107	6.1	1697	36	2.1
<u>Betsi Cadwaladr University HB</u>												
Anglesey LA	209	5	2.4	188	2	1.1	184	3	1.6	188	3	1.6
Conwy LA	286	13	4.5	259	14	5.4	272	8	2.9	301	5	1.7
Denbighshire LA	265	8	3.0	259	10	3.9	264	12	4.5	287	11	3.8
Flintshire LA	392	17	4.3	402	14	3.5	463	19	4.1	410	9	2.2
Gwynedd LA	283	20	7.1	281	10	3.6	318	10	3.1	327	5	1.5
Wrexham LA	384	20	5.2	402	15	3.7	380	24	6.3	370	20	5.4
Health Board Total	1819	83	4.6	1791	65	3.6	1881	76	4.0	1883	53	2.8
<u>Cardiff and Vale University HB</u>												
Cardiff LA	1071	222	20.7	1074	187	17.4	1119	270	24.1	945	111	11.7
Vale of Glamorgan LA	316	8	2.5	327	16	4.9	367	13	3.5	386	8	2.1
Health Board Total	1387	230	16.6	1401	203	14.5	1486	283	19.0	1331	119	8.9
<u>Cwm Taf Uiveristy HB</u>												
Merthyr Tydfil LA	176	20	11.4	165	12	7.3	164	10	6.1	152	3	2.0
Rhondda Cynon Taf LA	651	29	4.5	650	25	3.8	636	23	3.6	626	10	1.6
Health Board Total	827	49	5.9	815	37	4.5	800	33	4.1	778	13	1.7
<u>Hywel Dda University HB</u>												
Carmarthenshire LA	433	13	3.0	452	15	3.3	466	23	4.9	428	35	8.2
Ceredigion LA	136	7	5.1	140	7	5.0	158	11	7.0	161	5	3.1
Pembrokeshire LA	309	6	1.9	279	3	1.1	310	8	2.6	299	4	1.3
Health Board Total	878	26	3.0	871	25	2.9	934	42	4.5	888	44	5.0
<u>Powys Teaching Health Board</u>	279	7	2.5	284	10	3.5	307	9	2.9	391	4	1.0
Unknown	8	0	0.0	27	1	3.7	19	1	5.3	42	3	7.1
Wales Total	8060	584	7.2	8126	557	6.9	8542	630	7.4	8379	313	3.7

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 12. Uptake of hepatitis B immunisation in children born to hepatitis B positive mothers, reaching their 1st, 2nd and 5th birthdays during 01/04/15 and 30/06/15 and resident on 30/06/15.

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	1318	4	100.0	100.0	100.0	1326	2	100.0	100.0	100.0	100.0	1371	2	100.0	100.0	100.0	100.0
Aneurin Bevan UHB	1544	3	100.0	100.0	100.0	1611	2	100.0	100.0	100.0	50.0	1744	4	100.0	100.0	100.0	75.0
Betsi Cadwaladr UHB	1819	4	100.0	100.0	100.0	1791	3	100.0	100.0	100.0	100.0	1881	1	100.0	100.0	100.0	100.0
Cardiff and Vale UHB	1387	3	100.0	100.0	100.0	1401	14	100.0	100.0	100.0	78.6	1486	10	100.0	100.0	100.0	90.0
Cwm Taf UHB	827	0	-	-	-	815	0	-	-	-	-	800	1	100.0	100.0	100.0	100.0
Hywel Dda UHB	878	0	-	-	-	871	1	100.0	100.0	100.0	100.0	934	1	100.0	100.0	100.0	100.0
Powys Teaching HB	279	0	-	-	-	284	0	-	-	-	-	307	1	100.0	100.0	100.0	100.0
Unknown	8	0	0.0	0.0	0.0	27	0	-	-	-	-	19	0	-	-	-	-
Wales Total	8060	14	100.0	100.0	100.0	8126	22	100.0	100.0	100.0	81.8	8542	20	100.0	100.0	100.0	90.0

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.