

# Vaccine Uptake in Children in Wales

## COVER Annual report 2014

Data for the year ending 31<sup>st</sup> March 2014



### Key points

- Annual uptake of all routine immunisations in one year old children for Wales exceeded the 95% target, and 21 of the 22 Local Authority areas have exceeded the 95% uptake target for the 5 in 1 immunisation in one year olds for 2013/14.
- Annual uptake of the first dose of MMR at 2 years increased to 96.5%, its highest ever level.
- During the period April 2013 to March 2014, 87.9% of children had completed all recommended immunisations by their fourth birthday, a 5.5% increase from 82.4% in 2012/13.
- Uptake of the second dose of MMR by 5 years of age increased to 92.6%, the highest ever annual uptake of MMR2 at five years of age.
- Uptake of pre-school 4 in 1 booster in five year old children has increased to 93.2%, a 1.9% rise from 91.3% the previous year.
- Uptake of a complete three dose course of Human Papilloma Virus (HPV) vaccine in girls in the routine campaign (2012/13 School Year 8) was 86.0%.

### Findings

1. These results are for children living in Wales in May 2014 and reaching their first, second, fourth, fifth, 15<sup>th</sup> and 16<sup>th</sup> birthdays in the year ending March 31<sup>st</sup> 2014, and girls in school year 8 in 2012/2013.
2. Annual uptake of the completed course of '5 in 1'<sup>1</sup> vaccine, scheduled at 2, 3 and 4 months of age, in children reaching their first birthday increased to 96.7%. Uptake ranged by Health Board (HB) from 94.4% (Cardiff and Vale University HB) to 97.9% (Cwm Taf University HB) and by Local Authority (LA) from 93.9% (Cardiff) to 98.2% (Merthyr Tydfil). Twenty-one of the 22 LAs achieved the 95% target (Figures 1, 3, 5 and Tables 2, 3).
3. Following changes to the childhood immunisation schedule in June 2013, a completed MenC<sup>2</sup> primary course is one dose of MenC vaccine at three months of age. Data presented is based on a completed one dose primary course although a proportion of children reaching one year of age during this report year would have been eligible to receive a second MenC dose at four months of age as based on the previous childhood immunisation schedule for MenC. Annual uptake of a completed one dose course of MenC vaccine in children reaching their first birthday this year was 97.4% ranging by HB from 95.6 % (Powys Teaching HB) to 98.6 % (Cwm Taf University HB) and by LA from 95.3 % (Cardiff) to 99.1 % (Blaenau Gwent) (Figure 1 and Tables 2, 3).
4. Uptake of a complete two dose primary course of pneumococcal conjugate vaccination (PCV2)<sup>3</sup> in children at one year of age was 96.2%, ranging by HB from 93.3% (Cardiff and Vale University HB) to 97.7% (Cwm Taf University HB) and by LA from 92.6% (Cardiff) to 98.0% (Blaenau Gwent) (Figure 1 and Table 3).
5. Uptake of one dose of MMR<sup>4</sup> by two years of age increased this year by a further 1.9% from 94.6% last year to 96.5% this year. Uptake ranged by HB from 95.2% (Powys Teaching HB) to 97.3% (Cwm Taf University HB) and by LA from 94.9% (Cardiff) to 97.7% (Flintshire and Bridgend). All seven HBs achieved the target uptake of 95% for

<sup>1</sup> DTaP/IPV/Hib vaccine protects against diphtheria, tetanus, pertussis (Whooping Cough), polio and Hib infection.

<sup>2</sup> MenC vaccine protects against meningitis caused by meningococcus group C infection. Children reaching one year of age would have been offered one dose of MenC vaccine at 3 months of age.

<sup>3</sup> PCV protects against pneumococcal meningitis, bacteraemia, pneumonia and otitis media. Children reaching one year of age would have been offered one dose of PCV at 2 months of age and one dose at 4 months of age. Children reaching two years would have been offered their third and final PCV dose at 12-13 months of age.

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

one dose of MMR by two years of age (Figures 1, 3 and 6 and Tables 2, 4), and 21 out of 22 LAs exceeded the 95% target.

6. Annual uptake of the final dose of Pneumococcal Conjugate Vaccine (PCVf<sup>3</sup>) by 2 years of age was 96.1%. Uptake by HB ranged from 94.3% (Cardiff and Vale University HB) to 97.3% (Cwm Taf University HB) and by LA from 93.6% (Cardiff) to 97.9% (Blaenau Gwent) (Tables 2, 4).
7. Annual uptake of the Hib/MenC<sup>5</sup> booster by 2 years of age was 95.3%, ranging by HB from 92.9% (Cardiff and Vale University HB) to 96.8% (Cwm Taf University HB) and by LA from 92.0% (Cardiff) to 97.4% (Flintshire) (Tables 2, 4).
8. The proportion of children who were up to date with routine immunisations by four years of age was 87.9%, a 5.5% increase from 82.4% in 2012/13. (Table 1, Figure 2). This ranged by HB from 85.6% (Cardiff and Vale University HB) to 90.8% (Cwm Taf University HB) and by LA from 82.5% (Newport) to 91.8% (Ceredigion). In children reaching their fourth birthday, coverage of the '4 in 1' DTaP/IPV<sup>6</sup> pre-school booster was 91.0%, coverage of the Hib/MenC booster was 94.4% and uptake of two doses of MMR was 91.1% (Table 5). This year the calculation method for proportions of children up to date with routine immunisation by four years of age were revised during 2014 quarter 1, to remove the pneumococcal conjugate vaccine booster dose, as this is not clinically indicated after two years of age.
9. Annual uptake of two doses of MMR in children at five years of age increased from 89.6% last year to 92.6% this year. This is the highest ever annual uptake of MMR2 at five years of age (Figures 1, 4, 7, Tables 2, 6). Uptake of the second dose of MMR by five years of age ranged by HB from 90.7% (Powys Teaching HB) to 94.0% (Cwm Taf University HB) and by LA from 88.5% (Pembrokeshire) to 94.8% (Torfaen). No LHB achieved the 95% target for this immunisation.
10. Uptake of the '4 in 1' DTaP/IPV<sup>6</sup> pre-school booster in children reaching their fifth birthday this year was 93.2% (an increase from 91.3% in the previous year), ranging by HB from 92.0% (Hywel Dda University HB) to 94.8% (Cwm Taf University HB) and by LA from 90.2% (Newport and Pembrokeshire) to 95.2% (Flintshire) (Figures 4, 8, Tables 2, 6).
11. Uptake of all three doses of HPV vaccine in girls in the 2012/13 School Year 8 (reaching their 14<sup>th</sup> birthday between 01/09/13 and 31/08/14) was 86.0%, ranging by HB from 77.0% (Powys Teaching HB) to 91.9% (Cwm Taf University HB) and by LA from 76.4% (Monmouthshire) to 92.4% (Bridgend) (Table 7). Immunisation sessions for the current (2013/14) School Year 8 are in progress and uptake for one and two HPV doses in this group are reported in COVER Report 110.
12. Annual coverage of two doses of MMR in teenagers at 15 years of age was 89.4% (Table 8), ranging by HB from 87.4% (Powys Teaching HB and Hywel Dda University HB) to 91.8% (Betsi Cadwaladr University HB) and by LA from 79.8% (Monmouthshire) to 93.5% (Wrexham). Coverage of one dose of MMR in 15 year olds was 95.1%, ranging by HB from 93.0% (Powys Teaching HB) to 96.7% (Cwm Taf University HB) and by LA from 87.1% (Monmouthshire) to 97.5% (Blaenau Gwent). A breakdown by sex indicates that 89.7% of girls had received a full (two MMR doses) course of immunisation against rubella this year and coverage of only one dose was 95.3%.
13. Annual coverage of two doses of MMR in teenagers at 16 years of age was 88.6% (Tables 2, 9), ranging by HB from 84.7% (Powys Teaching HB) to 92.4% (Betsi Cadwaladr University HB) and by LA from 83.2% (Monmouthshire) to 93.2% (Anglesey). Annual coverage of one dose of MMR in 16 year olds was 94.6%, ranging by LA from 90.4% (Monmouthshire) to 96.9% (Wrexham). A breakdown by sex indicates that 88.9% of girls had received a full (two MMR doses) course of immunisation against rubella this year and coverage of only one dose was 94.5%.

<sup>5</sup> Hib/MenC vaccine protects against Hib and MenC infections and a routine dose should be offered at 12-13 months of age

<sup>6</sup> DTaP/IPV (and dTaP/IPV) vaccines boost protection against diphtheria, tetanus, pertussis and polio infection before school entry

14. National uptake of the Td/IPV<sup>7</sup> teenage booster in children reaching 16 years of age in the year ending 31<sup>st</sup> March 2014 was 80.1%, an increase of 2.5% from 77.6% in the previous year (Tables 2 and 9). Uptake ranged by HB from 73.2% (Hywel Dda University HB) to 84.7% (Cwm Taf University HB) and by LA from 58.0% (Pembrokeshire) to 87.0% (Gwynedd).
15. The relationship between deprivation and uptake was examined. The percentage of children who were up to date with their routine vaccinations by four years of age is presented broken down by Health Board and the national quintile of deprivation of the Lower Super Output Area (LSOA) in which the children reside (Figure 9 and Table 10). National quintiles of deprivation were calculated according to the LSOA rankings contained in the Welsh Index of Multiple Deprivation (WIMD). For the data presented here, quintile five represents the most deprived quintile of LSOA and quintile one represents the least deprived quintile of LSOA. Deprivation rankings contained in the WIMD are relative, not absolute values and they refer to an overall composite measure of factors related to deprivation for the LSOA as a whole, not the individual circumstances of residents within the LSOA. Nationally, the percentage of children up to date with their routine immunisations by four years of age ranged from 90.1% in the least deprived quintile of LSOA to 84.9% in the most deprived quintile of LSOA. The difference in uptake between the least deprived quintile and the most deprived quintile was 5.2%, a reduction from 8.9% in 2012/13. The LSOA of residence was unknown for 128 of Wales resident children reaching their fourth birthday between 01/04/2013 and 31/03/2014.
16. Uptake of hepatitis B immunisation, extracted from the Public Health Wales All Wales Neonatal Hepatitis B immunisation database, is presented in Table 11. The database was developed to assist the Public Health Wales Health Protection Team in the monitoring and follow up of hepatitis B immunisation of babies born to hepatitis B positive mothers and to provide a source for statistics on uptake of hepatitis B immunisation in this group. Uptake of three doses in children who were at risk of perinatal infection and reached their first birthday in the year ending 31<sup>st</sup> March 2014 was 97.6%. Uptake of four doses in children who were at risk of perinatal infection and reached their second birthday in the year ending 31<sup>st</sup> March 2014 was 100%. Uptake of four doses in children who were at risk of perinatal infection and reached their fifth birthday in the year ending 31<sup>st</sup> March 2014 was 97.6%.

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

## **Comment**

Annual trends in immunisation uptake in Wales continue to be very positive with improvements seen across all age groups. Coverage of routine immunisations in one year olds exceeded 95% in nearly all Local Authority (LA) areas (Table 2). Uptake of one dose of MMR exceeded 95% nationally this year in children reaching two, five and fifteen years of age, with uptake in 16 year olds just below the 95% target, compared to only five year olds achieving 95% uptake last year. Further improvements were observed across all ages, in uptake of the second dose of MMR and encouragingly uptake in teenagers is approaching 90%.

The proportion of children who are up to date with their routine immunisations by four years of age has increased to 87.9%, compared to 82.4% last year. The calculation method for this measure has changed between 2012/13 and 2013/14 reports; with pneumococcal conjugate booster vaccination status no longer factored in to the measure. If the calculation method had not changed, the proportion of children reported as up to date by their fourth birthday would have increased to 86.4%; the change in calculation method is responsible for an additional increase of 1.5% on top of this. Improvements seen in all Health Boards in quarterly reports during 2013/14 also suggest that there has been a genuine trend toward improvement. Furthermore, although coverage in children residing in more deprived areas of Wales is lower than for children residing in less deprived areas, the gap in coverage between the most and least deprived has reduced compared to last year.

Uptake of the teenage booster against diphtheria, tetanus and polio increased again this year particularly in 15 year olds, mainly due to large improvements in uptake in Abertawe Bro Morgannwg University Health Board and Hywel Dda University Health Board. However, other areas in Wales have also seen an increase in coverage at 15 and 16 years of age.

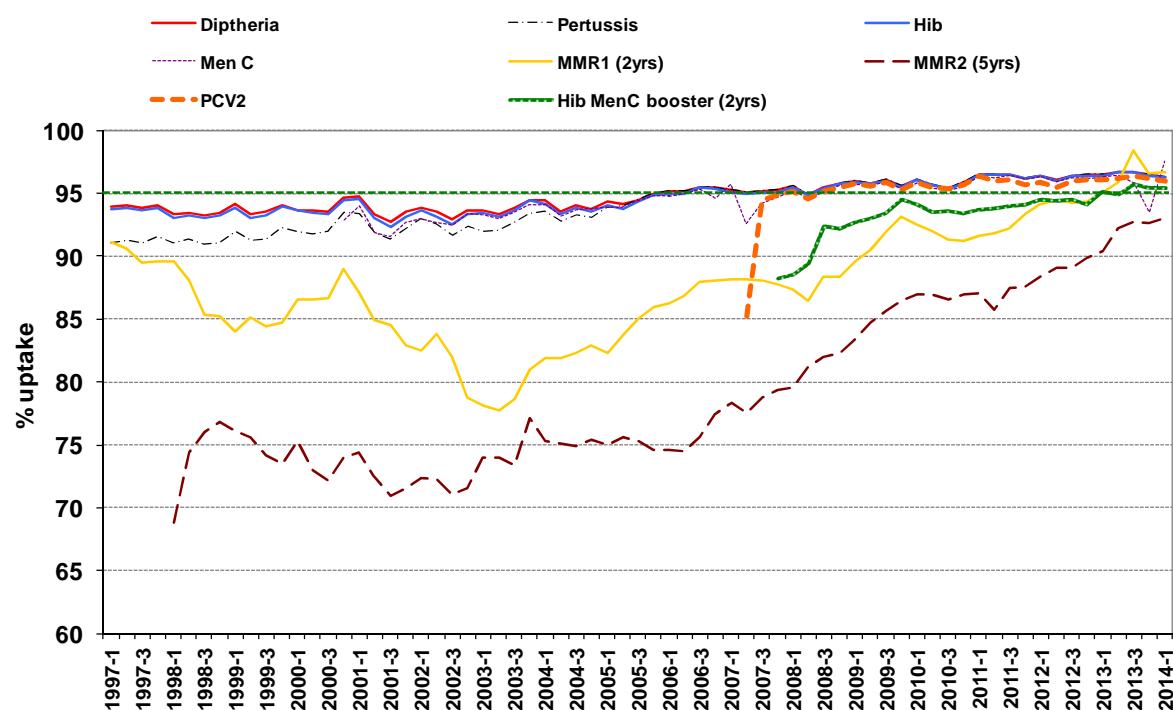
This report presents, for the first time, coverage of a completed one dose course of MenC vaccine given at 3 months of age following the change to the immunisation schedule in June 2013 [1]. Uptake of hepatitis B vaccinations given to babies born to hepatitis B positive mothers is presented using data from the Public Health Wales All Wales Neonatal Hepatitis B Immunisation database. This provides more reliable reporting of hepatitis B uptake due to better ascertainment of the denominator of babies born to hepatitis B positive mothers.

The period covered in this report included significant changes and additions to the routine schedule of childhood immunisations, which would have placed an increased demand on immunisation service providers. Currently, the changes do not appear to have adversely affected the long-term positive trends for immunisation uptake in Wales, although the 2014/15 annual COVER report will provide a more conclusive answer.

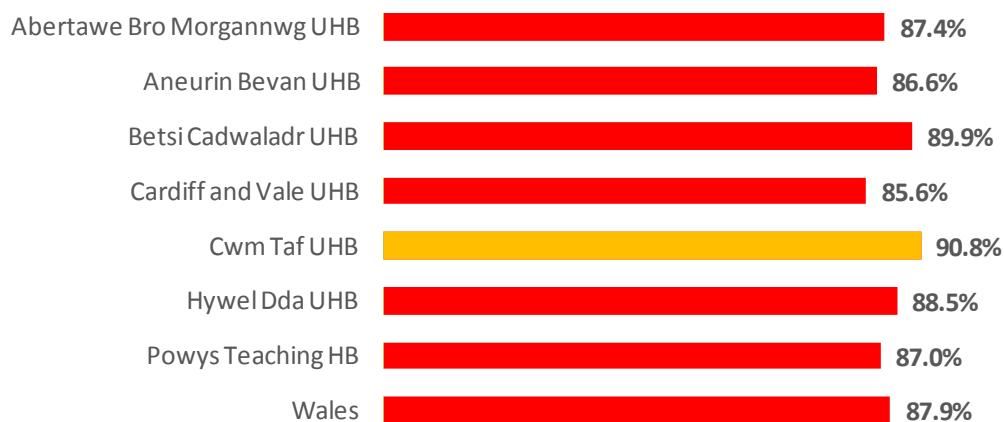
[1] Welsh Government (2013) Important changes to the schedule for Meningococcal Serogroup C Conjugate vaccine, CMO letter(2013)10. Available from: <http://wales.gov.uk/docs/phhs/publications/130524changesen.pdf>

**Report prepared by Public Health Wales Vaccine Preventable Disease Programme and Communicable Disease Surveillance Centre.** Data for this report was provided by Health Solutions Wales 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 LHB resident population, not for LHB GP practice populations. The maps, graphs and Table 1 are best viewed in colour.

**Figure 1.** Percentage uptake of childhood immunisations in Wales, quarter 1 1997 to quarter 1 2014. Data are for: children reaching 1 year of age each quarter for diphtheria, pertussis, Hib, MenC<sup>8</sup> and pneumococcal conjugate vaccine, children reaching 2 years of age for MMR1 (first dose) and the Hib MenC booster, and 5 years of age for MMR2 (second dose).



**Figure 2.** Percentage uptake of resident children reaching their 4<sup>th</sup> birthday between 01/04/13 and 31/03/14 and are up to date with all scheduled vaccines<sup>9</sup> by Health Board.



<sup>8</sup> MenC uptake for children reaching one year of age this quarter is based on a completed one dose course of MenC vaccination. This is due to the MenC programme change in June 2013 from a two dose MenC primary course given at 3 months and 4 months of age to a one dose primary course at 3 months of age. The rise in MenC uptake is expected due to the removal of the 4 month dose.

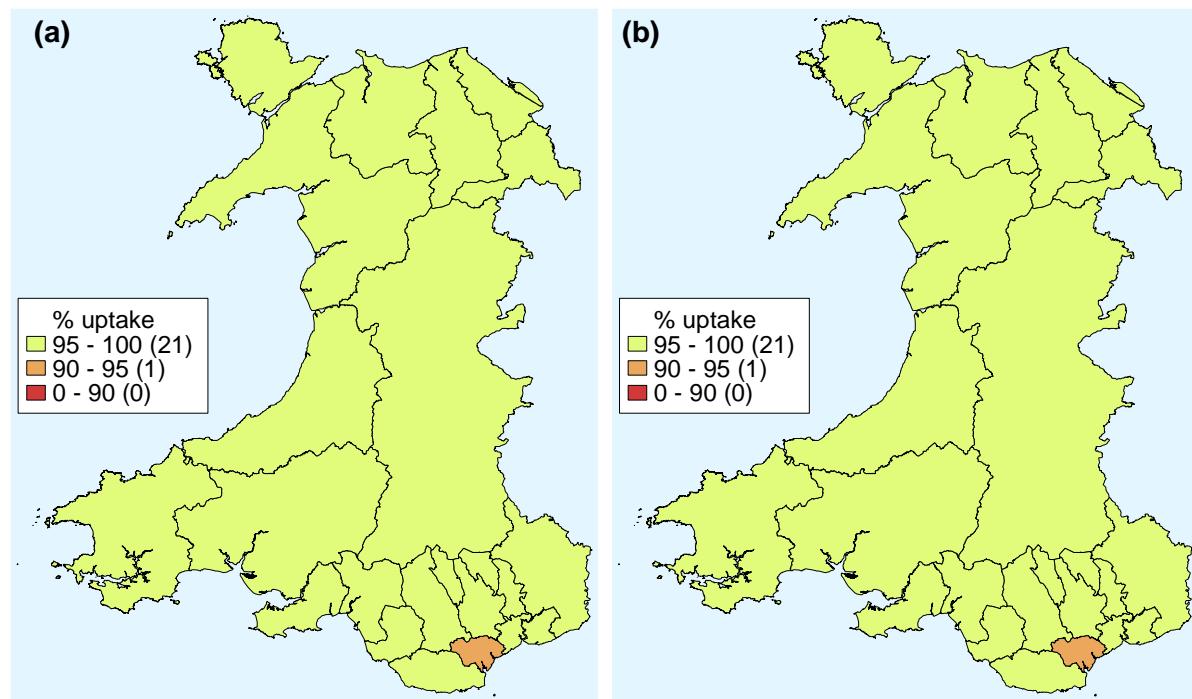
<sup>9</sup> Completed 4 in 1 preschool booster, the Hib/MenC booster and second MMR dose by four years of age. The calculation method for proportions of children up to date with routine immunisation by four years of age was revised during 2014 quarter 1, to remove the pneumococcal conjugate vaccine booster dose, as this is not clinically indicated after two years of age.

**Table 1.** Percentage uptake of resident children reaching their 4<sup>th</sup> birthday between 01/04/13 and 31/03/14 and are up to date with all scheduled vaccines<sup>10</sup> by Health Board, annual 2011/12 to annual 2013/14.

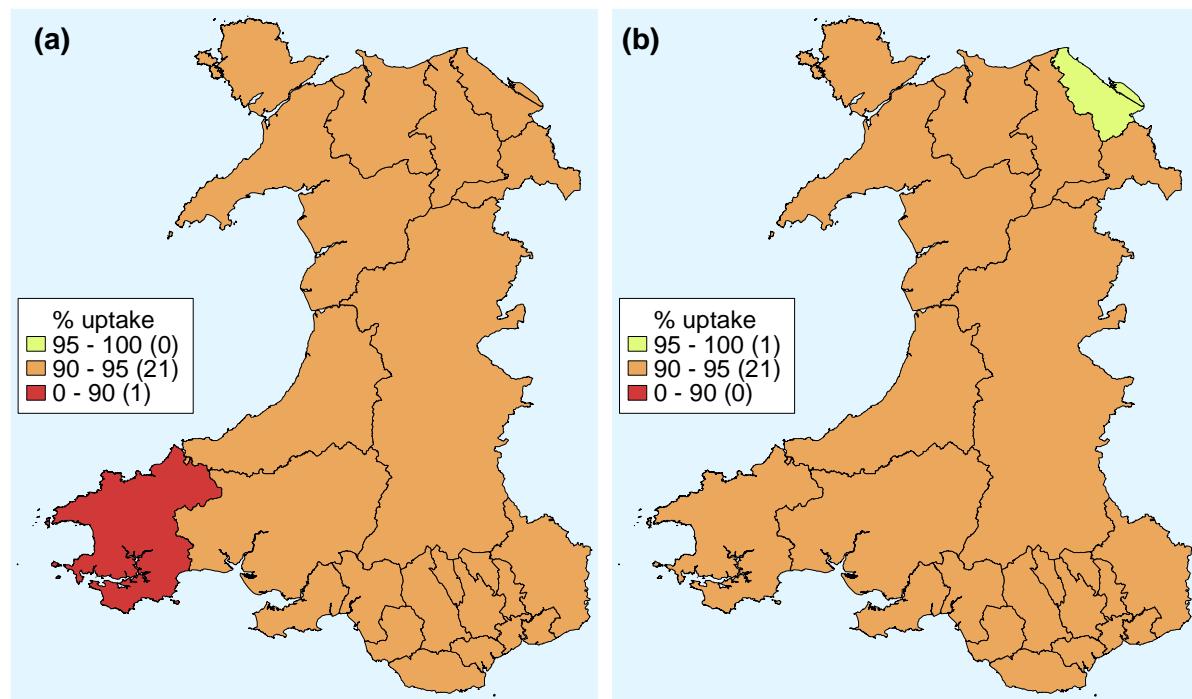
Area	Up to date in schedule		
	2011/12	2012/13	2013/14
Abertawe Bro Morgannwg UHB	<b>80.7</b>	<b>82.6</b>	<b>87.4</b>
Aneurin Bevan UHB	<b>80.9</b>	<b>80.9</b>	<b>86.6</b>
Betsi Cadwaladr UHB	<b>83.3</b>	<b>85.1</b>	<b>89.9</b>
Cardiff and Vale UHB	<b>78.0</b>	<b>79.2</b>	<b>85.6</b>
Cwm Taf UHB	<b>83.1</b>	<b>85.0</b>	<b>90.8</b>
Hywel Dda UHB	<b>78.4</b>	<b>80.8</b>	<b>88.5</b>
Powys Teaching HB	<b>81.4</b>	<b>84.7</b>	<b>87.0</b>
<b>Wales</b>	<b>80.8</b>	<b>82.4</b>	<b>87.9</b>

<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.

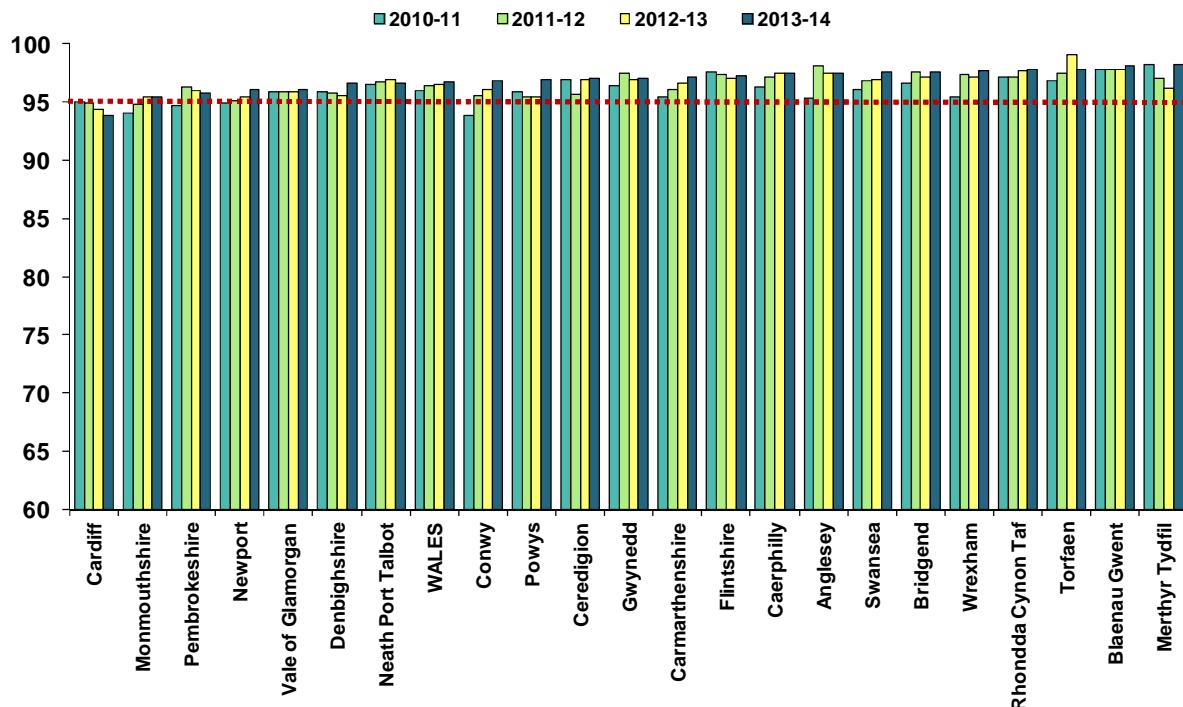
**Figure 3.** (a) Uptake of 5 in 1 vaccine in Welsh Local Authority areas in children reaching their 1<sup>st</sup> birthday between 01/04/13 and 31/03/14. (b) Uptake of at least 1 dose of MMR immunisation in Welsh Local Authority areas in children reaching their 2<sup>nd</sup> birthday between 01/04/13 and 31/03/14.



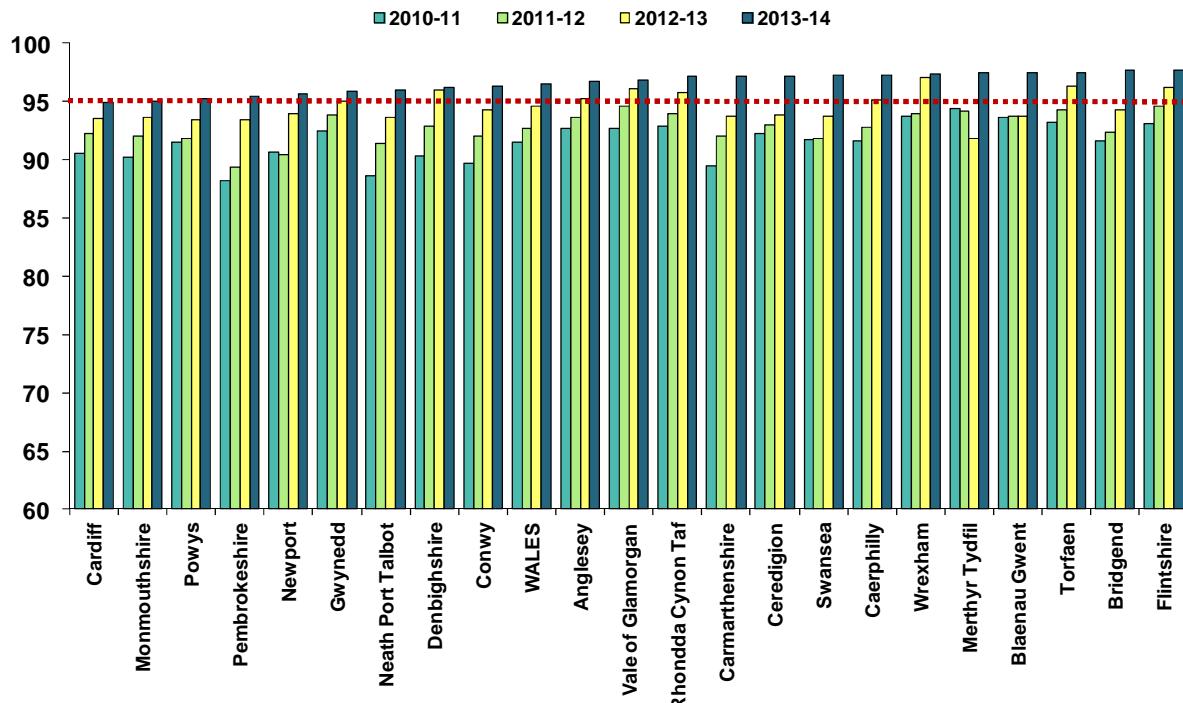
**Figure 4.** (a) Uptake of two doses of MMR vaccine in Welsh Local Authority areas in children reaching their 5<sup>th</sup> birthday between 01/04/13 and 31/03/14. (b) Uptake of 4 in 1 vaccine in Welsh Local Authority areas in children reaching their 5<sup>th</sup> birthday between 01/04/13 and 31/03/14.



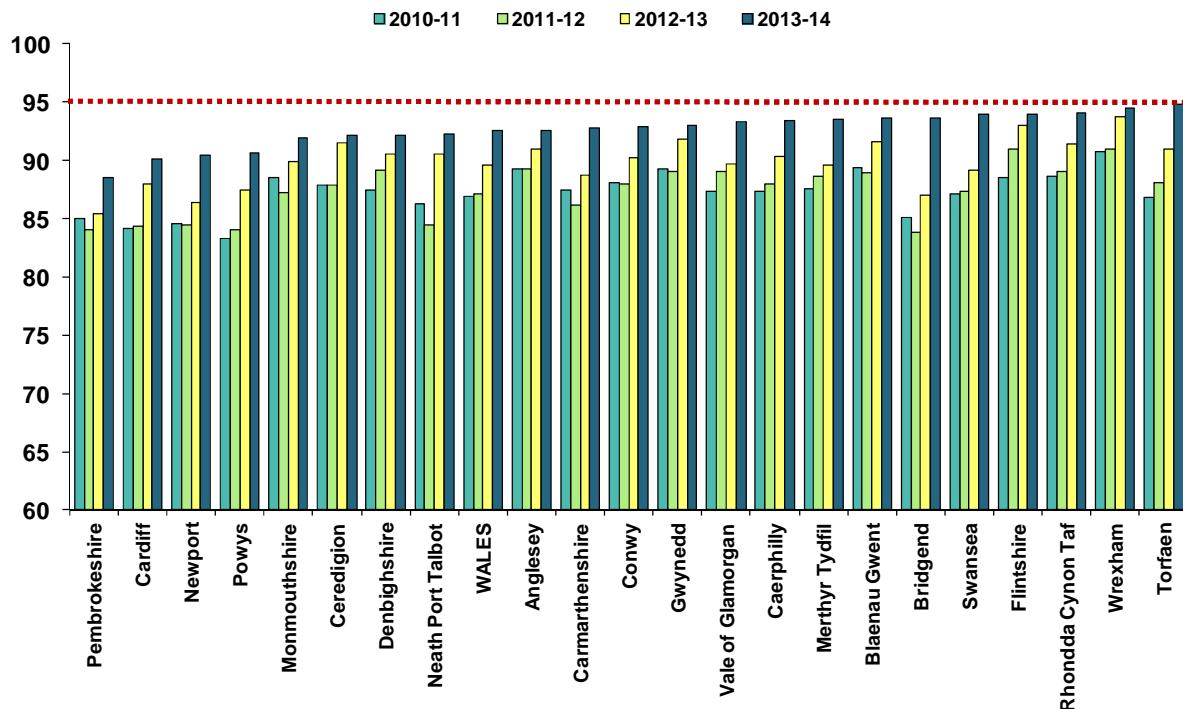
**Figure 5.** Annual uptake of 5 in 1 vaccine by 1 year of age (2010 – 2014 financial years, ranked by uptake in 2013-2014).



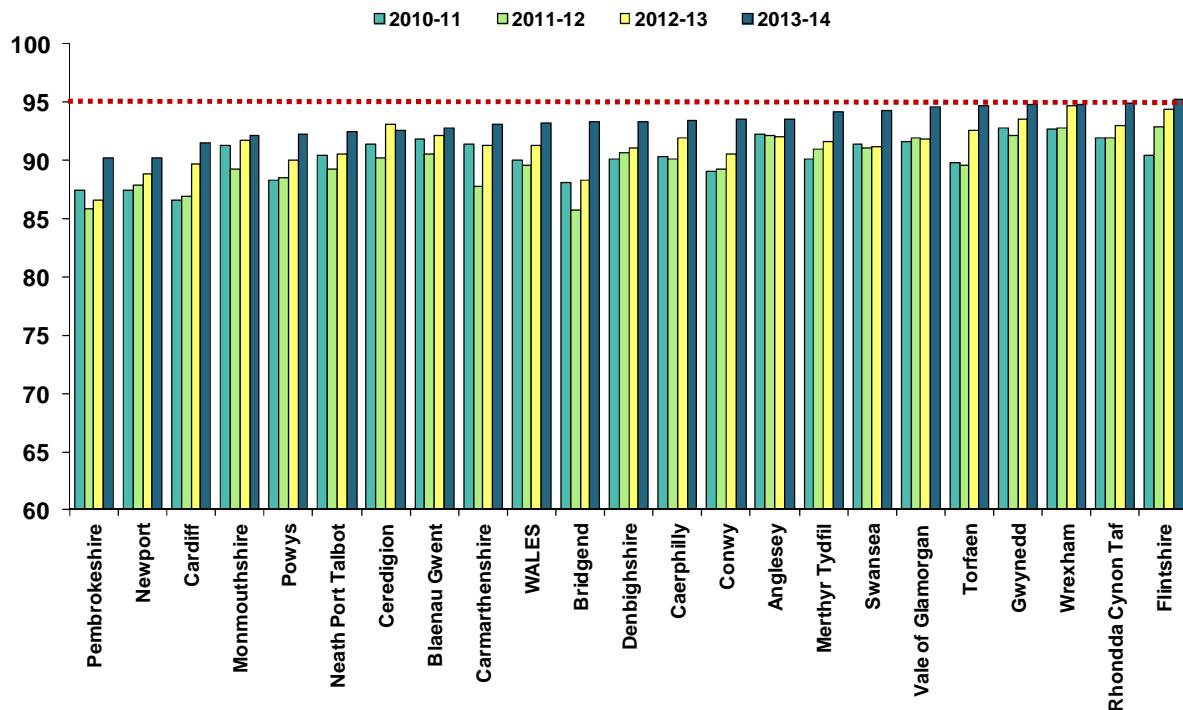
**Figure 6.** Annual uptake of 1 dose of MMR by 2 years of age (2010 – 2014 financial years, ranked by uptake in 2013-2014).



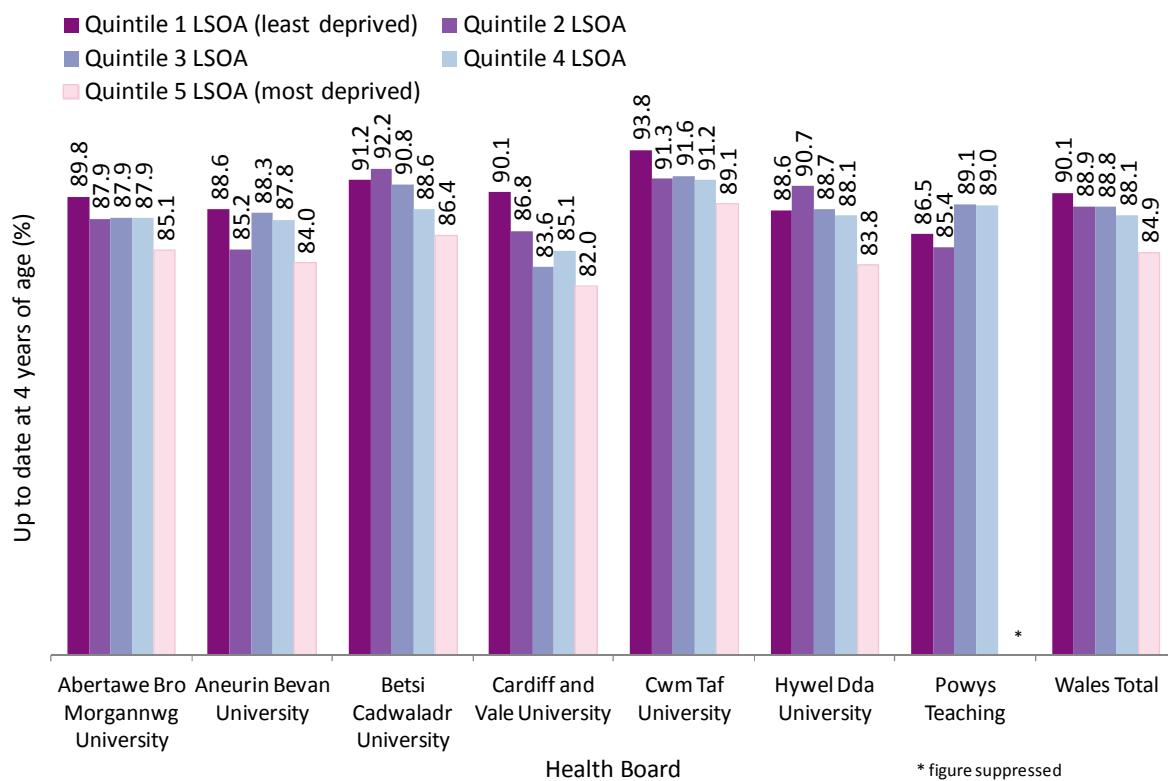
**Figure 7.** Annual uptake of 2 doses of MMR by 5 years of age (2010 – 2014 financial years, ranked by uptake in 2013-2014).



**Figure 8.** Annual uptake of the 4 in 1 pre-school booster by 5 years of age (2010 – 2014 financial years, ranked by uptake in 2013-2014).



**Figure 9.** Percentages of children who are up to date with routine immunisations<sup>11</sup> by four years of age, by quintile of deprivation of the Lower Super Output Area in which they reside. Vaccine uptake is presented for children reaching their 4th birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014.



<sup>11</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.

**Table 2.** Summary table with uptake of selected immunisations in resident children reaching their 1st, 2nd, 4th, 5th and 16th birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014.

Area	Age 1 year						Age 2 years						Age 4 years			Age 5 years			Age 16 years							
	Resident children (n)	5 in 1*		MenC**		Resident children (n)	MMR1		PCV†		Hib/MenC booster (n) (%)	Resident children Up to date in schedule*** (n) (%)	Resident children (n)	MMR2		4 in 1*		Resident children (n)	MMR1		MMR2		3 in 1 Teenage booster*** (n) (%)			
<b>Abertawe Bro Morgannwg University LHB</b>																										
Bridgend LA	1606	1567	97.6	1586	98.8	1710	1671	97.7	1660	97.1	1656	96.8	1628	87.0	1559	1461	93.7	1454	93.3	1661	1605	96.6	1521	91.6	1386	83.4
Neath Port Talbot LA	1495	1444	96.6	1471	98.4	1549	1487	96.0	1478	95.4	1470	94.9	1578	87.4	1498	1382	92.3	1386	92.5	1543	1478	95.8	1376	89.2	1261	81.7
Swansea LA	2584	2523	97.6	2528	97.8	2762	2687	97.3	2668	96.6	2646	95.8	2624	87.6	2662	2502	94.0	2511	94.3	2606	2502	96.0	2311	88.7	2219	85.1
Health Board Total	<b>5685</b>	<b>5534</b>	<b>97.3</b>	<b>5585</b>	<b>98.2</b>	<b>6021</b>	<b>5845</b>	<b>97.1</b>	<b>5806</b>	<b>96.4</b>	<b>5772</b>	<b>95.9</b>	<b>5830</b>	<b>87.4</b>	<b>5719</b>	<b>5345</b>	<b>93.5</b>	<b>5351</b>	<b>93.6</b>	<b>5810</b>	<b>5585</b>	<b>96.1</b>	<b>5208</b>	<b>89.6</b>	<b>4866</b>	<b>83.8</b>
<b>Aneurin Bevan University LHB</b>																										
Blaenau Gwent LA	801	786	98.1	794	99.1	757	738	97.5	741	97.9	733	96.8	782	88.7	811	759	93.6	753	92.8	805	768	95.4	719	89.3	679	84.3
Caerphilly LA	2083	2030	97.5	2040	97.9	2073	2017	97.3	2007	96.8	1996	96.3	2168	88.4	2133	1993	93.4	1993	93.4	2096	2009	95.8	1909	91.1	1656	79.0
Monmouthshire LA	849	811	95.5	814	95.9	860	817	95.0	816	94.9	809	94.1	875	87.8	956	879	91.9	881	92.2	1133	1024	90.4	943	83.2	832	73.4
Newport LA	1893	1820	96.1	1821	96.2	1905	1823	95.7	1788	94.9	1779	93.4	1971	82.5	2022	1828	90.4	1823	90.2	1988	1862	93.7	1723	86.7	1516	76.3
Torfaen LA	1109	1085	97.8	1092	98.5	1081	1054	97.5	1048	96.9	1045	96.7	1075	87.9	1088	1031	94.8	1030	94.7	1219	1170	96.0	1092	89.6	966	79.2
Health Board Total	<b>6735</b>	<b>6532</b>	<b>97.0</b>	<b>6561</b>	<b>97.4</b>	<b>6676</b>	<b>6449</b>	<b>96.6</b>	<b>6420</b>	<b>96.2</b>	<b>6362</b>	<b>95.3</b>	<b>6871</b>	<b>86.6</b>	<b>7010</b>	<b>6490</b>	<b>92.6</b>	<b>6480</b>	<b>92.4</b>	<b>7241</b>	<b>6833</b>	<b>94.4</b>	<b>6386</b>	<b>88.2</b>	<b>5649</b>	<b>78.0</b>
<b>Betsi Cadwaladr University LHB</b>																										
Anglesey LA	805	785	97.5	793	98.5	784	758	96.7	766	97.7	760	96.9	779	88.4	794	735	92.6	742	93.5	737	710	96.3	687	93.2	627	85.1
Conwy LA	1142	1105	96.8	1124	98.4	1143	1101	96.3	1096	95.9	1091	95.5	1154	89.6	1176	1092	92.9	1099	93.5	1251	1204	96.2	1152	92.1	1063	85.0
Denbighshire LA	1021	986	96.6	1001	98.0	1049	1009	96.2	1012	96.5	1002	95.5	1062	88.7	1064	981	92.2	993	93.3	1103	1065	96.6	1020	92.5	939	85.1
Flintshire LA	1627	1583	97.3	1594	98.0	1683	1645	97.7	1648	97.9	1640	97.4	1723	90.4	1713	1610	94.0	1631	95.2	1708	1653	96.8	1568	91.8	1450	84.9
Gwynedd LA	1295	1258	97.1	1235	95.4	1332	1278	95.9	1284	96.4	1278	95.9	1253	91.6	1274	1185	93.0	1208	94.8	1291	1244	96.4	1195	92.6	1123	87.0
Wrexham LA	1678	1639	97.7	1656	98.7	1677	1633	97.4	1629	97.1	1611	96.1	1680	89.9	1705	1612	94.5	1616	94.8	1422	1378	96.9	1318	92.7	1147	80.7
Health Board Total	<b>7568</b>	<b>7356</b>	<b>97.2</b>	<b>7403</b>	<b>97.8</b>	<b>7668</b>	<b>7424</b>	<b>96.8</b>	<b>7435</b>	<b>97.0</b>	<b>7382</b>	<b>96.3</b>	<b>7651</b>	<b>89.9</b>	<b>7726</b>	<b>7215</b>	<b>93.4</b>	<b>7289</b>	<b>94.3</b>	<b>7512</b>	<b>7254</b>	<b>96.6</b>	<b>6940</b>	<b>92.4</b>	<b>6349</b>	<b>84.5</b>
<b>Cardiff and Vale University LHB</b>																										
Cardiff LA	4652	4370	93.9	4434	95.3	4700	4458	94.9	4401	93.6	4325	92.0	4511	84.3	4450	4010	90.1	4072	91.5	3816	3487	91.4	3237	84.8	2848	74.6
Vale of Glamorgan LA	1401	1346	96.1	1358	96.9	1525	1476	96.8	1471	96.5	1460	95.7	1555	89.5	1551	1447	93.3	1467	94.6	1585	1477	93.2	1405	88.6	1275	80.4
Health Board Total	<b>6053</b>	<b>5716</b>	<b>94.4</b>	<b>5792</b>	<b>95.7</b>	<b>6225</b>	<b>5934</b>	<b>95.3</b>	<b>5872</b>	<b>94.3</b>	<b>5785</b>	<b>92.9</b>	<b>6066</b>	<b>85.6</b>	<b>6001</b>	<b>5457</b>	<b>90.9</b>	<b>5539</b>	<b>92.3</b>	<b>5401</b>	<b>4964</b>	<b>91.9</b>	<b>4642</b>	<b>85.9</b>	<b>4123</b>	<b>76.3</b>
<b>Cwm Taf University LHB</b>																										
Merthyr Tydfil LA	723	710	98.2	712	98.5	760	741	97.5	739	97.2	738	97.1	672	91.1	708	662	93.5	667	94.2	679	645	95.0	592	87.2	551	81.1
Rhondda Cynon Taff LA	2740	2681	97.8	2702	98.6	2817	2738	97.2	2741	97.3	2723	96.7	2778	90.7	2776	2613	94.1	2635	94.9	2689	2593	96.4	2437	90.6	2301	85.6
Health Board Total	<b>3463</b>	<b>3391</b>	<b>97.9</b>	<b>3414</b>	<b>98.6</b>	<b>3577</b>	<b>3479</b>	<b>97.3</b>	<b>3480</b>	<b>97.3</b>	<b>3461</b>	<b>96.8</b>	<b>3450</b>	<b>90.8</b>	<b>3484</b>	<b>3275</b>	<b>94.0</b>	<b>3302</b>	<b>94.8</b>	<b>3368</b>	<b>3238</b>	<b>96.1</b>	<b>3029</b>	<b>89.9</b>	<b>2852</b>	<b>84.7</b>
<b>Hywel Dda University LHB</b>																										
Carmarthenshire LA	1885	1832	97.2	1850	98.1	1964	1909	97.2	1886	96.0	1870	95.2	1945	87.6	1883	1747	92.8	1753	93.1	1950	1820	93.3	1657	85.0	1565	80.3
Ceredigion LA	684	664	97.1	664	97.1	610	593	97.2	588	96.4	585	95.9	679	91.8	593	547	92.2	549	92.6	665	628	94.4	579	87.1	554	83.3
Pembrokeshire LA	1249	1197	95.8	1217	97.4	1306	1247	95.5	1244	95.3	1230	94.2	1312	88.3	1266	1120	88.5	1142	90.2	1332	1233	92.6	1131	84.9	772	58.0
Health Board Total	<b>3818</b>	<b>3693</b>	<b>96.7</b>	<b>3731</b>	<b>97.7</b>	<b>3880</b>	<b>3749</b>	<b>96.6</b>	<b>3718</b>	<b>95.8</b>	<b>3685</b>	<b>95.0</b>	<b>3936</b>	<b>88.5</b>	<b>3742</b>	<b>3414</b>	<b>91.2</b>	<b>3444</b>	<b>92.0</b>	<b>3947</b>	<b>3681</b>	<b>93.3</b>	<b>3367</b>	<b>85.3</b>	<b>2891</b>	<b>73.2</b>
<b>Powys Teaching LHB</b>																										
Unknown	100	95	95.0	95	95.0	96	90	93.8	92	95.8	91	94.8	105	86.7	125	118	94.4	119	95.2	251	198	78.9	179	71.3	155	61.8
<b>Wales Total</b>	<b>34638</b>	<b>33495</b>	<b>96.7</b>	<b>33743</b>	<b>97.4</b>	<b>35382</b>	<b>34149</b>	<b>96.5</b>	<b>34006</b>	<b>96.1</b>	<b>33707</b>	<b>95.3</b>	<b>35168</b>	<b>87.9</b>	<b>35086</b>	<b>32474</b>	<b>92.6</b>	<b>32705</b>	<b>93.2</b>	<b>35052</b>	<b>33156</b>	<b>94.6</b>	<b>31040</b>	<b>88.6</b>	<b>28071</b>	<b>80.1</b>

\* Uptake of pertussis used as proxy

\*\* MenC uptake for children reaching one year of age this quarter is based on a completed one dose primary course of MenC vaccination. This is due to the MenC programme change in June 2013 from a two dose MenC primary course given at 3 months and 4 months of age to a one dose primary course at 3 months of age.

\*\*\* Completed 4 in 1 preschool booster, the Hib/MenC booster and second MMR dose by four years of age

\*\*\*\* Uptake of diphtheria (reinforcing booster dose) used as proxy

† Children receiving the final dose of PCV

95% and higher
90% to less than 95%
below 90%

**Table 3.** Vaccine uptake in children reaching their 1st birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014

Area	Resident children	D3	T3	P3	Po3	Hib3	MMR1	MenC*	PCV2**	HibMenCb
<b>Abertawe Bro Morgannwg University LHB</b>	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)
Bridgend LA	1606	1567	97.6	1566	97.5	1567	97.6	1566	97.5	744
Neath Port Talbot LA	1495	1444	96.6	1444	96.6	1444	96.6	1444	96.6	46.3
Swansea LA	2584	2523	97.6	2523	97.6	2519	97.5	2522	97.6	1376
<b>Health Board Total</b>	<b>5685</b>	<b>5534</b>	<b>97.3</b>	<b>5533</b>	<b>97.3</b>	<b>5534</b>	<b>97.3</b>	<b>5529</b>	<b>97.3</b>	<b>2860</b>
<b>Aneurin Bevan University LHB</b>										
Blaenau Gwent LA	801	786	98.1	786	98.1	786	98.1	786	98.1	10
Caerphilly LA	2083	2030	97.5	2030	97.5	2028	97.4	2029	97.4	135
Monmouthshire LA	849	811	95.5	811	95.5	811	95.5	811	95.5	44
Newport LA	1893	1820	96.1	1820	96.1	1820	96.1	1819	96.1	87
Torfaen LA	1109	1085	97.8	1085	97.8	1085	97.8	1085	97.8	29
<b>Health Board Total</b>	<b>6735</b>	<b>6532</b>	<b>97.0</b>	<b>6532</b>	<b>97.0</b>	<b>6532</b>	<b>97.0</b>	<b>6530</b>	<b>97.0</b>	<b>305</b>
<b>Betsi Cadwaladr University LHB</b>										
Anglesey LA	805	785	97.5	785	97.5	785	97.5	785	97.4	7
Conwy LA	1142	1105	96.8	1105	96.8	1105	96.8	1105	96.8	17
Denbighshire LA	1021	986	96.6	986	96.6	986	96.6	986	96.6	18
Flintshire LA	1627	1583	97.3	1583	97.3	1583	97.3	1583	97.3	28
Gwynedd LA	1295	1258	97.1	1258	97.1	1257	97.1	1257	97.1	34
Wrexham LA	1678	1639	97.7	1639	97.7	1639	97.7	1639	97.7	17
<b>Health Board Total</b>	<b>7568</b>	<b>7356</b>	<b>97.2</b>	<b>7356</b>	<b>97.2</b>	<b>7356</b>	<b>97.2</b>	<b>7355</b>	<b>97.2</b>	<b>121</b>
<b>Cardiff and Vale University LHB</b>										
Cardiff LA	4652	4370	93.9	4370	93.9	4370	93.9	4369	93.9	4362
Vale of Glamorgan LA	1401	1346	96.1	1346	96.1	1346	96.1	1346	96.1	119
<b>Health Board Total</b>	<b>6053</b>	<b>5716</b>	<b>94.4</b>	<b>5716</b>	<b>94.4</b>	<b>5716</b>	<b>94.4</b>	<b>5715</b>	<b>94.4</b>	<b>5708</b>
<b>Cwm Taf University LHB</b>										
Merthyr Tydfil LA	723	710	98.2	710	98.2	710	98.2	710	98.2	57
Rhondda Cynon Taf LA	2740	2681	97.8	2681	97.8	2681	97.8	2680	97.8	179
<b>Health Board Total</b>	<b>3463</b>	<b>3391</b>	<b>97.9</b>	<b>3391</b>	<b>97.9</b>	<b>3391</b>	<b>97.9</b>	<b>3390</b>	<b>97.9</b>	<b>236</b>
<b>Hywel Dda University LHB</b>										
Carmarthenshire LA	1885	1832	97.2	1832	97.2	1832	97.2	1831	97.1	1832
Ceredigion LA	684	664	97.1	664	97.1	664	96.9	663	96.9	662
Pembrokeshire LA	1249	1197	95.8	1197	95.8	1197	95.8	1197	95.8	1196
<b>Health Board Total</b>	<b>3818</b>	<b>3693</b>	<b>96.7</b>	<b>3693</b>	<b>96.7</b>	<b>3693</b>	<b>96.7</b>	<b>3691</b>	<b>96.7</b>	<b>710</b>
<b>Powys Teaching LHB</b>										
Unknown	1216	1178	96.9	1178	96.9	1178	96.9	1178	96.9	234
<b>Wales Total</b>	<b>34638</b>	<b>33495</b>	<b>96.7</b>	<b>33494</b>	<b>96.7</b>	<b>33495</b>	<b>96.7</b>	<b>33484</b>	<b>96.7</b>	<b>33476</b>

\* MenC uptake for children reaching one year of age this quarter is based on a completed one dose primary course of MenC vaccination. This is due to the MenC programme change in June 2013 from a two dose MenC primary course given at 3 months and 4 months of age to a one dose primary course at 3 months of age.

\*\* Full primary 2 dose course of pneumococcal conjugate vaccine

**Table 4.** Vaccine uptake in children reaching their 2nd birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014.

Area	Resident children	D3	T3	P3	Po3	Hib3	MMR1	MenC*	PCV2**	PCVf***	HibMenCb
<b>Abertawe Bro Morgannwg University LHB</b>	(n)	(n)	(%)								
Bridgend LA	1710	1680	98.2	1680	98.2	1679	98.2	1678	98.1	1679	98.2
Neath Port Talbot LA	1549	1513	97.7	1513	97.7	1513	97.7	1513	97.7	1487	96.0
Swansea LA	2762	2716	98.3	2716	98.3	2716	98.3	2714	98.3	2687	97.3
<b>Health Board Total</b>	<b>6021</b>	<b>5909</b>	<b>98.1</b>	<b>5909</b>	<b>98.1</b>	<b>5908</b>	<b>98.1</b>	<b>5907</b>	<b>98.1</b>	<b>5906</b>	<b>98.1</b>
<b>Aneurin Bevan University LHB</b>											
Blaenau Gwent LA	757	750	99.1	750	99.1	750	99.1	750	99.1	738	97.5
Caerphilly LA	2073	2040	98.4	2040	98.4	2040	98.4	2040	98.4	2039	98.4
Monmouthshire LA	860	823	95.7	823	95.7	823	95.7	823	95.7	817	95.0
Newport LA	1905	1841	96.6	1841	96.6	1841	96.6	1839	96.5	1836	96.4
Torfaen LA	1081	1072	99.2	1072	99.2	1072	99.2	1072	99.2	1054	97.5
<b>Health Board Total</b>	<b>6676</b>	<b>6526</b>	<b>97.8</b>	<b>6526</b>	<b>97.8</b>	<b>6526</b>	<b>97.8</b>	<b>6524</b>	<b>97.7</b>	<b>6520</b>	<b>97.7</b>
<b>Betsi Cadwaladr University LHB</b>											
Anglesey LA	784	777	99.1	777	99.1	777	99.1	778	99.2	777	99.1
Conwy LA	1143	1123	98.3	1123	98.3	1123	98.3	1122	98.2	1120	98.0
Denbighshire LA	1049	1020	97.2	1020	97.2	1020	97.2	1020	97.2	1009	96.2
Flintshire LA	1683	1668	99.1	1668	99.1	1669	99.2	1667	99.0	1667	99.0
Gwynedd LA	1332	1298	97.4	1298	97.4	1298	97.4	1298	97.4	1278	95.9
Wrexham LA	1677	1653	98.6	1653	98.6	1653	98.6	1649	98.3	1651	98.4
<b>Health Board Total</b>	<b>7668</b>	<b>7539</b>	<b>98.3</b>	<b>7539</b>	<b>98.3</b>	<b>7540</b>	<b>98.3</b>	<b>7534</b>	<b>98.3</b>	<b>7533</b>	<b>98.2</b>
<b>Cardiff and Vale University LHB</b>											
Cardiff LA	4700	4521	96.2	4521	96.2	4521	96.2	4520	96.2	4507	95.9
Vale of Glamorgan LA	1525	1489	97.6	1489	97.6	1489	97.6	1489	97.6	1476	96.8
<b>Health Board Total</b>	<b>6225</b>	<b>6010</b>	<b>96.5</b>	<b>6010</b>	<b>96.5</b>	<b>6010</b>	<b>96.5</b>	<b>6009</b>	<b>96.5</b>	<b>5996</b>	<b>96.3</b>
<b>Cwm Taf University LHB</b>											
Merthyr Tydfil LA	760	739	97.2	739	97.2	739	97.2	738	97.1	738	97.1
Rhondda Cynon Taf LA	2817	2777	98.6	2777	98.6	2776	98.5	2777	98.6	2738	97.2
<b>Health Board Total</b>	<b>3577</b>	<b>3516</b>	<b>98.3</b>	<b>3516</b>	<b>98.3</b>	<b>3516</b>	<b>98.3</b>	<b>3514</b>	<b>98.2</b>	<b>3515</b>	<b>98.3</b>
<b>Hywel Dda University LHB</b>											
Carmarthenshire LA	1964	1919	97.7	1919	97.7	1919	97.7	1917	97.6	1917	97.6
Ceredigion LA	610	595	97.5	595	97.5	595	97.5	595	97.5	594	97.4
Pembrokeshire LA	1306	1265	96.9	1265	96.9	1265	96.9	1265	96.9	1247	95.5
<b>Health Board Total</b>	<b>3880</b>	<b>3779</b>	<b>97.4</b>	<b>3779</b>	<b>97.4</b>	<b>3779</b>	<b>97.4</b>	<b>3777</b>	<b>97.3</b>	<b>3776</b>	<b>97.3</b>
<b>Powys Teaching LHB</b>											
Unknown	1239	1201	96.9	1201	96.9	1201	96.9	1201	96.9	1179	95.2
<b>Wales Total</b>	<b>35382</b>	<b>34573</b>	<b>97.7</b>	<b>34573</b>	<b>97.7</b>	<b>34573</b>	<b>97.7</b>	<b>34559</b>	<b>97.7</b>	<b>34540</b>	<b>97.6</b>

\* Reflects uptake of the completed two dose primary course in this age group (before June 2013 changes)

\*\* Full primary 2 dose course of pneumococcal conjugate vaccine

\*\*\* Final (booster) dose of pneumococcal conjugate vaccine

**Table 5.** Vaccine uptake in children reaching their 4th birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014

Area	Resident Children	4 in 1 Preschool booster*	HibMenCb	MMR dose 2	Up to date in schedule**
<b>Abertawe Bro Morgannwg University LHB</b>					
Bridgend LA	1628	1454	89.3	1549	95.1
Neath Port Talbot LA	1578	1419	89.9	1509	95.6
Swansea LA	2624	2376	90.5	2483	94.6
<b>Health Board Total</b>	<b>5830</b>	<b>5249</b>	<b>90.0</b>	<b>5541</b>	<b>95.0</b>
<b>Aneurin Bevan University LHB</b>					
Blaenau Gwent LA	782	715	91.4	751	96.0
Caerphilly LA	2168	1986	91.6	2062	95.1
Monmouthshire LA	875	795	90.9	809	92.5
Newport LA	1971	1712	86.9	1810	91.8
Torfaen LA	1075	970	90.2	1033	96.1
<b>Health Board Total</b>	<b>6871</b>	<b>6178</b>	<b>89.9</b>	<b>6465</b>	<b>94.1</b>
<b>Betsi Cadwaladr University LHB</b>					
Anglesey LA	779	710	91.1	743	95.4
Conwy LA	1154	1050	91.0	1097	95.1
Denbighshire LA	1062	965	90.9	1013	95.4
Flintshire LA	1723	1611	93.5	1649	95.7
Gwynedd LA	1253	1181	94.3	1196	95.5
Wrexham LA	1680	1541	91.7	1603	95.4
<b>Health Board Total</b>	<b>7651</b>	<b>7058</b>	<b>92.2</b>	<b>7301</b>	<b>95.4</b>
<b>Cardiff and Vale University LHB</b>					
Cardiff LA	4511	4004	88.8	4135	91.7
Vale of Glamorgan LA	1555	1448	93.1	1474	94.8
<b>Health Board Total</b>	<b>6066</b>	<b>5452</b>	<b>89.9</b>	<b>5609</b>	<b>92.5</b>
<b>Cwm Taf University LHB</b>					
Merthyr Tydfil LA	672	630	93.8	651	96.9
Rhondda Cynon Taff LA	2778	2596	93.4	2679	96.4
<b>Health Board Total</b>	<b>3450</b>	<b>3226</b>	<b>93.5</b>	<b>3330</b>	<b>96.5</b>
<b>Hywel Dda University LHB</b>					
Carmarthenshire LA	1945	1767	90.8	1826	93.9
Ceredigion LA	679	641	94.4	644	94.8
Pembrokeshire LA	1312	1192	90.9	1231	93.8
<b>Health Board Total</b>	<b>3936</b>	<b>3600</b>	<b>91.5</b>	<b>3701</b>	<b>94.0</b>
<b>Powys Teaching Health Board</b>	<b>1259</b>	<b>1143</b>	<b>90.8</b>	<b>1172</b>	<b>93.1</b>
Unknown	105	94	89.5	94	89.5
<b>Wales Total</b>	<b>35168</b>	<b>32000</b>	<b>91.0</b>	<b>33213</b>	<b>94.4</b>
* Uptake of acellular pertussis used as proxy					
** 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.					

\* Uptake of acellular pertussis used as proxy

\*\* 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.

**Table 6.** Vaccine uptake in children reaching their 5th birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014.

Area	Resident children	D3	T3	P3	Po3	Hib3	MenC*	PCVf**	HibMenCb	MMR1	MMR2	D4	T4	aP	Po4		
<b>Abertawe Bro Morgannwg University LHB</b>		(n)	(n)	(%)													
Bridgend LA	1559	1540	98.8	1540	98.8	1540	98.8	1538	98.7	1536	98.5	1515	97.2	1433	91.9	1474	94.5
Neath Port Talbot LA	1498	1461	97.5	1461	97.5	1461	97.5	1458	97.3	1459	97.4	1433	95.7	1385	92.5	1422	94.9
Swansea LA	2662	2599	97.6	2599	97.6	2599	97.6	2597	97.6	2582	97.0	2502	94.0	2460	92.4	2524	94.8
<b>Health Board Total</b>	<b>5719</b>	<b>5600</b>	<b>97.9</b>	<b>5600</b>	<b>97.9</b>	<b>5600</b>	<b>97.9</b>	<b>5593</b>	<b>97.8</b>	<b>5577</b>	<b>97.5</b>	<b>5450</b>	<b>95.3</b>	<b>5278</b>	<b>92.3</b>	<b>5420</b>	<b>94.8</b>
<b>Aneurin Bevan University LHB</b>																	
Blaenau Gwent LA	811	798	98.4	798	98.4	798	98.4	798	98.4	792	97.7	758	93.5	773	95.3	794	97.9
Caerphilly LA	2133	2096	98.3	2096	98.3	2096	98.3	2096	98.3	2094	98.2	2072	97.1	1979	92.8	2022	94.8
Monmouthshire LA	956	904	94.6	904	94.6	904	94.6	904	94.6	880	92.1	869	90.9	884	92.5	903	94.5
Newport LA	2022	1954	96.6	1954	96.6	1954	96.6	1951	96.5	1945	96.2	1864	92.2	1814	89.7	1851	91.5
Torfaen LA	1088	1076	98.9	1076	98.9	1076	98.9	1075	98.8	1062	97.6	1009	92.7	1041	95.7	1069	98.3
<b>Health Board Total</b>	<b>7010</b>	<b>6828</b>	<b>97.4</b>	<b>6828</b>	<b>97.4</b>	<b>6828</b>	<b>97.4</b>	<b>6825</b>	<b>97.4</b>	<b>6816</b>	<b>97.2</b>	<b>6670</b>	<b>95.1</b>	<b>6429</b>	<b>91.7</b>	<b>6571</b>	<b>93.7</b>
<b>Betsi Cadwaladr University LHB</b>																	
Anglesey LA	794	768	96.7	768	96.7	767	96.6	768	96.7	766	96.5	747	94.1	729	91.8	746	94.0
Conwy LA	1176	1149	97.7	1149	97.7	1149	97.7	1149	97.7	1149	97.7	1118	95.1	1090	92.7	1118	95.1
Denbighshire LA	1064	1029	96.7	1029	96.7	1029	96.7	1029	96.7	1028	96.6	1000	94.0	978	91.9	999	93.9
Flintshire LA	1713	1680	98.1	1680	98.1	1680	98.1	1678	98.0	1677	97.9	1631	95.2	1593	93.0	1645	96.0
Gwynedd LA	1274	1235	96.9	1235	96.9	1235	96.9	1236	97.0	1233	96.8	1176	92.3	1177	92.4	1205	94.6
Wrexham LA	1705	1671	98.0	1671	98.0	1671	98.0	1668	97.8	1625	95.3	1608	94.3	1628	95.5	1667	97.8
<b>Health Board Total</b>	<b>7726</b>	<b>7532</b>	<b>97.5</b>	<b>7532</b>	<b>97.5</b>	<b>7531</b>	<b>97.5</b>	<b>7531</b>	<b>97.5</b>	<b>7521</b>	<b>97.3</b>	<b>7297</b>	<b>94.4</b>	<b>7175</b>	<b>92.9</b>	<b>7341</b>	<b>95.0</b>
<b>Cardiff and Vale University LHB</b>																	
Cardiff LA	4450	4280	96.2	4280	96.2	4279	96.2	4276	96.1	4259	95.7	4012	90.2	3927	88.2	4022	90.4
Vale of Glamorgan LA	1551	1516	97.7	1516	97.7	1516	97.7	1515	97.7	1513	97.5	1487	95.9	1461	94.2	1467	94.6
<b>Health Board Total</b>	<b>6001</b>	<b>5796</b>	<b>96.6</b>	<b>5796</b>	<b>96.6</b>	<b>5795</b>	<b>96.6</b>	<b>5791</b>	<b>96.5</b>	<b>5772</b>	<b>96.2</b>	<b>5499</b>	<b>91.6</b>	<b>5388</b>	<b>89.8</b>	<b>5489</b>	<b>91.5</b>
<b>Cwm Taf University LHB</b>																	
Merthyr Tydfil LA	708	688	97.2	688	97.2	688	97.2	687	97.0	686	96.9	677	95.6	659	93.1	669	94.5
Rhondda Cynon Taff LA	2776	2730	98.3	2730	98.3	2730	98.3	2730	98.3	2728	98.3	2695	97.1	2597	93.6	2656	95.7
<b>Health Board Total</b>	<b>3484</b>	<b>3418</b>	<b>98.1</b>	<b>3418</b>	<b>98.1</b>	<b>3418</b>	<b>98.1</b>	<b>3417</b>	<b>98.1</b>	<b>3414</b>	<b>98.0</b>	<b>3372</b>	<b>96.8</b>	<b>3256</b>	<b>93.5</b>	<b>3325</b>	<b>95.4</b>
<b>Hywel Dda University LHB</b>																	
Carmarthenshire LA	1883	1825	96.9	1825	96.9	1825	96.9	1823	96.8	1821	96.7	1783	94.7	1707	90.7	1750	92.9
Ceredigion LA	593	562	94.8	562	94.8	562	94.8	561	94.6	560	94.4	544	91.7	532	89.7	552	93.1
Pembrokeshire LA	1266	1204	95.1	1204	95.1	1204	95.1	1201	94.9	1197	94.5	1174	92.7	1114	88.0	1181	93.3
<b>Health Board Total</b>	<b>3742</b>	<b>3591</b>	<b>96.0</b>	<b>3591</b>	<b>96.0</b>	<b>3591</b>	<b>96.0</b>	<b>3585</b>	<b>95.8</b>	<b>3578</b>	<b>95.6</b>	<b>3501</b>	<b>93.6</b>	<b>3353</b>	<b>89.6</b>	<b>3483</b>	<b>93.1</b>
<b>Powys Teaching LHB</b>																	
Unknown	125	119	95.2	119	95.2	119	95.2	119	95.2	119	95.2	113	90.4	114	91.2	115	92.0
<b>Wales Total</b>	<b>35086</b>	<b>34099</b>	<b>97.2</b>	<b>34099</b>	<b>97.2</b>	<b>34097</b>	<b>97.2</b>	<b>34074</b>	<b>97.1</b>	<b>34006</b>	<b>96.9</b>	<b>32971</b>	<b>94.0</b>	<b>32159</b>	<b>91.7</b>	<b>32926</b>	<b>93.8</b>

\* refers to full completed courses of MenC (before the 2006 schedule change)

\*\* Final (booster) dose of pneumococcal conjugate vaccine

**Table 7.** HPV Vaccine uptake in girls reaching their 14th birthday between 01/09/2013 and 31/08/2014 and resident on 01/05/2014 (School Year 8 during 2012-13).

Area	Resident girls	HPV 1 dose	HPV 2 doses	HPV 3 doses
<b>Abertawe Bro Morgannwg University LHB</b>		(n) (%)	(n) (%)	(n) (%)
Bridgend LA	723	684 94.6	678 93.8	668 92.4
Neath Port Talbot LA	651	607 93.2	601 92.3	591 90.8
Swansea LA	1206	1105 91.6	1093 90.6	1061 88.0
<b>Health Board Total</b>	<b>2580</b>	<b>2396 92.9</b>	<b>2372 91.9</b>	<b>2320 89.9</b>
<b>Aneurin Bevan University LHB</b>				
Blaenau Gwent LA	367	343 93.5	337 91.8	327 89.1
Caerphilly LA	916	829 90.5	824 90.0	808 88.2
Monmouthshire LA	529	420 79.4	411 77.7	404 76.4
Newport LA	866	770 88.9	760 87.8	736 85.0
Torfaen LA	475	424 89.3	421 88.6	405 85.3
<b>Health Board Total</b>	<b>3153</b>	<b>2786 88.4</b>	<b>2753 87.3</b>	<b>2680 85.0</b>
<b>Betsi Cadwaladr University LHB</b>				
Anglesey LA	349	313 89.7	309 88.5	299 85.7
Conwy LA	603	535 88.7	535 88.7	527 87.4
Denbighshire LA	491	436 88.8	433 88.2	419 85.3
Flintshire LA	804	730 90.8	721 89.7	700 87.1
Gwynedd LA	608	541 89.0	538 88.5	536 88.2
Wrexham LA	710	620 87.3	614 86.5	606 85.4
<b>Health Board Total</b>	<b>3565</b>	<b>3175 89.1</b>	<b>3150 88.4</b>	<b>3087 86.6</b>
<b>Cardiff and Vale University LHB</b>				
Cardiff LA	1759	1553 88.3	1533 87.2	1411 80.2
Vale of Glamorgan LA	687	638 92.9	637 92.7	599 87.2
<b>Health Board Total</b>	<b>2446</b>	<b>2191 89.6</b>	<b>2170 88.7</b>	<b>2010 82.2</b>
<b>Cwm Taf University LHB</b>				
Merthyr Tydfil LA	314	287 91.4	284 90.4	285 90.8
Rhondda Cynon Taff LA	1186	1122 94.6	1114 93.9	1094 92.2
<b>Health Board Total</b>	<b>1500</b>	<b>1409 93.9</b>	<b>1398 93.2</b>	<b>1379 91.9</b>
<b>Hywel Dda University LHB</b>				
Carmarthenshire LA	858	769 89.6	764 89.0	750 87.4
Ceredigion LA	308	262 85.1	259 84.1	256 83.1
Pembrokeshire LA	614	540 87.9	536 87.3	519 84.5
<b>Health Board Total</b>	<b>1780</b>	<b>1571 88.3</b>	<b>1559 87.6</b>	<b>1525 85.7</b>
<b>Powys Teaching LHB</b>	<b>640</b>	<b>528 82.5</b>	<b>512 80.0</b>	<b>493 77.0</b>
Unknown	74	60 81.1	60 81.1	58 78.4
<b>Wales Total</b>	<b>15785</b>	<b>14142 89.6</b>	<b>14000 88.7</b>	<b>13577 86.0</b>

**Table 8.** Vaccine uptake in children reaching their 15th birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014 (with breakdown of MMR1 and MMR2 coverage by sex).

Area	Resident children		Teenage 3 in 1 booster*				Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	MMR1 (n)	MMR2 (n)	(%)	MMR1 (n)	MMR2 (n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)
<b>Abertawe Bro Morgannwg University LHB</b>																		
Bridgend LA	1582	1522	96.2	1458	92.2	1210	76.5	770	746	96.9	714	92.7	811	776	95.7	744	91.7	
Neath Port Talbot LA	1568	1522	97.1	1441	91.9	1316	83.9	780	752	96.4	714	91.5	788	770	97.7	727	92.3	
Swansea LA	2452	2354	96.0	2172	88.6	2069	84.4	1166	1118	95.9	1028	88.2	1286	1236	96.1	1144	89.0	
<b>Health Board Total</b>	<b>5602</b>	<b>5398</b>	<b>96.4</b>	<b>5071</b>	<b>90.5</b>	<b>4595</b>	<b>82.0</b>	<b>2716</b>	<b>2616</b>	<b>96.3</b>	<b>2456</b>	<b>90.4</b>	<b>2885</b>	<b>2782</b>	<b>96.4</b>	<b>2615</b>	<b>90.6</b>	
<b>Aneurin Bevan University LHB</b>																		
Blaenau Gwent LA	774	755	97.5	714	92.2	518	66.9	383	375	97.9	355	92.7	391	380	97.2	359	91.8	
Caerphilly LA	2084	1994	95.7	1878	90.1	1433	68.8	1044	1004	96.2	947	90.7	1040	990	95.2	931	89.5	
Monmouthshire LA	1078	939	87.1	860	79.8	690	64.0	509	447	87.8	416	81.7	569	492	86.5	444	78.0	
Newport LA	1931	1802	93.3	1675	86.7	1177	61.0	953	899	94.3	838	87.9	977	903	92.4	837	85.7	
Torfaen LA	1115	1081	97.0	1031	92.5	721	64.7	549	536	97.6	505	92.0	566	545	96.3	526	92.9	
<b>Health Board Total</b>	<b>6982</b>	<b>6571</b>	<b>94.1</b>	<b>6158</b>	<b>88.2</b>	<b>4539</b>	<b>65.0</b>	<b>3438</b>	<b>3261</b>	<b>94.9</b>	<b>3061</b>	<b>89.0</b>	<b>3543</b>	<b>3310</b>	<b>93.4</b>	<b>3097</b>	<b>87.4</b>	
<b>Betsi Cadwaladr University LHB</b>																		
Anglesey LA	751	722	96.1	694	92.4	614	81.8	347	335	96.5	320	92.2	404	387	95.8	374	92.6	
Conwy LA	1237	1189	96.1	1146	92.6	1054	85.2	624	612	98.1	595	95.4	611	576	94.3	551	90.2	
Denbighshire LA	1145	1100	96.1	1018	88.9	935	81.7	575	549	95.5	502	87.3	570	551	96.7	516	90.5	
Flintshire LA	1732	1677	96.8	1587	91.6	1413	81.6	840	811	96.5	772	91.9	892	866	97.1	815	91.4	
Gwynedd LA	1272	1212	95.3	1167	91.7	1057	83.1	631	606	96.0	582	92.2	640	605	94.5	584	91.3	
Wrexham LA	1410	1371	97.2	1319	93.5	1117	79.2	654	633	96.8	613	93.7	756	738	97.6	706	93.4	
<b>Health Board Total</b>	<b>7547</b>	<b>7271</b>	<b>96.3</b>	<b>6931</b>	<b>91.8</b>	<b>6190</b>	<b>82.0</b>	<b>3671</b>	<b>3546</b>	<b>96.6</b>	<b>3384</b>	<b>92.2</b>	<b>3873</b>	<b>3723</b>	<b>96.1</b>	<b>3546</b>	<b>91.6</b>	
<b>Cardiff and Vale University LHB</b>																		
Cardiff LA	3686	3450	93.6	3188	86.5	2751	74.6	1764	1655	93.8	1538	87.2	1922	1795	93.4	1650	85.8	
Vale of Glamorgan LA	1457	1404	96.4	1328	91.1	1220	83.7	703	676	96.2	636	90.5	754	728	96.6	692	91.8	
<b>Health Board Total</b>	<b>5143</b>	<b>4854</b>	<b>94.4</b>	<b>4516</b>	<b>87.8</b>	<b>3971</b>	<b>77.2</b>	<b>2467</b>	<b>2331</b>	<b>94.5</b>	<b>2174</b>	<b>88.1</b>	<b>2676</b>	<b>2523</b>	<b>94.3</b>	<b>2342</b>	<b>87.5</b>	
<b>Cwm Taf University LHB</b>																		
Merthyr Tydfil LA	671	639	95.2	612	91.2	288	42.9	324	309	95.4	293	90.4	347	330	95.1	319	91.9	
Rhondda Cynon Taff LA	2571	2496	97.1	2349	91.4	1209	47.0	1243	1202	96.7	1133	91.2	1328	1294	97.4	1216	91.6	
<b>Health Board Total</b>	<b>3242</b>	<b>3135</b>	<b>96.7</b>	<b>2961</b>	<b>91.3</b>	<b>1497</b>	<b>46.2</b>	<b>1567</b>	<b>1511</b>	<b>96.4</b>	<b>1426</b>	<b>91.0</b>	<b>1675</b>	<b>1624</b>	<b>97.0</b>	<b>1535</b>	<b>91.6</b>	
<b>Hywel Dda University LHB</b>																		
Carmarthenshire LA	1904	1792	94.1	1688	88.7	1545	81.1	942	893	94.8	847	89.9	962	899	93.5	841	87.4	
Ceredigion LA	687	654	95.2	613	89.2	574	83.6	336	321	95.5	303	90.2	351	333	94.9	310	88.3	
Pembrokeshire LA	1391	1276	91.7	1181	84.9	1033	74.3	668	615	92.1	570	85.3	723	661	91.4	611	84.5	
<b>Health Board Total</b>	<b>3982</b>	<b>3722</b>	<b>93.5</b>	<b>3482</b>	<b>87.4</b>	<b>3152</b>	<b>79.2</b>	<b>1946</b>	<b>1829</b>	<b>94.0</b>	<b>1720</b>	<b>88.4</b>	<b>2036</b>	<b>1893</b>	<b>93.0</b>	<b>1762</b>	<b>86.5</b>	
<b>Powys Teaching LHB</b>																		
Unknown	1466	1363	93.0	1281	87.4	468	31.9	715	668	93.4	629	88.0	751	695	92.5	652	86.8	
<b>Wales Total</b>	<b>34142</b>	<b>32452</b>	<b>95.1</b>	<b>30524</b>	<b>89.4</b>	<b>24502</b>	<b>71.8</b>	<b>16603</b>	<b>15824</b>	<b>95.3</b>	<b>14901</b>	<b>89.7</b>	<b>17534</b>	<b>16626</b>	<b>94.8</b>	<b>15622</b>	<b>89.1</b>	

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

**Table 9.** Vaccine uptake in children reaching their 16th birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014 (with breakdown of MMR1 and MMR2 coverage by sex).

Area	Resident children		MMR1		MMR2		Teenage 3 in 1 booster*		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 LHB</b>																				
Bridgend LA	1661	1605	96.6	1521	91.6	1386	83.4	812	781	96.2	740	91.1	849	824	97.1	781	92.0			
Neath Port Talbot LA	1543	1478	95.8	1376	89.2	1261	81.7	780	747	95.8	695	89.1	763	731	95.8	681	89.3			
Swansea LA	2606	2502	96.0	2311	88.7	2219	85.1	1279	1222	95.5	1128	88.2	1327	1280	96.5	1183	89.1			
<b>Health Board Total</b>	<b>5810</b>	<b>5585</b>	<b>96.1</b>	<b>5208</b>	<b>89.6</b>	<b>4866</b>	<b>83.8</b>	<b>2871</b>	<b>2750</b>	<b>95.8</b>	<b>2563</b>	<b>89.3</b>	<b>2939</b>	<b>2835</b>	<b>96.5</b>	<b>2645</b>	<b>90.0</b>			
<b>Aneurin Bevan University LHB</b>																				
Blaenau Gwent LA	805	768	95.4	719	89.3	679	84.3	407	386	94.8	361	88.7	398	382	96.0	358	89.9			
Caerphilly LA	2096	2009	95.8	1909	91.1	1656	79.0	1022	979	95.8	939	91.9	1074	1030	95.9	970	90.3			
Monmouthshire LA	1133	1024	90.4	943	83.2	832	73.4	551	493	89.5	455	82.6	581	530	91.2	487	83.8			
Newport LA	1988	1862	93.7	1723	86.7	1516	76.3	988	922	93.3	849	85.9	998	940	94.2	874	87.6			
Torfaen LA	1219	1170	96.0	1092	89.6	966	79.2	613	590	96.2	550	89.7	605	580	95.9	542	89.6			
<b>Health Board Total</b>	<b>7241</b>	<b>6833</b>	<b>94.4</b>	<b>6386</b>	<b>88.2</b>	<b>5649</b>	<b>78.0</b>	<b>3581</b>	<b>3370</b>	<b>94.1</b>	<b>3154</b>	<b>88.1</b>	<b>3656</b>	<b>3462</b>	<b>94.7</b>	<b>3231</b>	<b>88.4</b>			
<b>Betsi Cadwaladr University LHB</b>																				
Anglesey LA	737	710	96.3	687	93.2	627	85.1	387	379	97.9	370	95.6	350	331	94.6	317	90.6			
Conwy LA	1251	1204	96.2	1152	92.1	1063	85.0	573	551	96.2	530	92.5	676	651	96.3	620	91.7			
Denbighshire LA	1103	1065	96.6	1020	92.5	939	85.1	531	509	95.9	493	92.8	570	554	97.2	527	92.5			
Flintshire LA	1708	1653	96.8	1568	91.8	1450	84.9	833	805	96.6	765	91.8	875	848	96.9	803	91.8			
Gwynedd LA	1291	1244	96.4	1195	92.6	1123	87.0	619	594	96.0	574	92.7	672	650	96.7	621	92.4			
Wrexham LA	1422	1378	96.9	1318	92.7	1147	80.7	714	691	96.8	667	93.4	708	687	97.0	651	91.9			
<b>Health Board Total</b>	<b>7512</b>	<b>7254</b>	<b>96.6</b>	<b>6940</b>	<b>92.4</b>	<b>6349</b>	<b>84.5</b>	<b>3657</b>	<b>3529</b>	<b>96.5</b>	<b>3399</b>	<b>92.9</b>	<b>3851</b>	<b>3721</b>	<b>96.6</b>	<b>3539</b>	<b>91.9</b>			
<b>Cardiff and Vale University LHB</b>																				
Cardiff LA	3816	3487	91.4	3237	84.8	2848	74.6	1876	1712	91.3	1617	86.2	1938	1775	91.6	1620	83.6			
Vale of Glamorgan LA	1585	1477	93.2	1405	88.6	1275	80.4	808	757	93.7	719	89.0	777	720	92.7	686	88.3			
<b>Health Board Total</b>	<b>5401</b>	<b>4964</b>	<b>91.9</b>	<b>4642</b>	<b>85.9</b>	<b>4123</b>	<b>76.3</b>	<b>2684</b>	<b>2469</b>	<b>92.0</b>	<b>2336</b>	<b>87.0</b>	<b>2715</b>	<b>2495</b>	<b>91.9</b>	<b>2306</b>	<b>84.9</b>			
<b>Cwm Taf University LHB</b>																				
Merthyr Tydfil LA	679	645	95.0	592	87.2	551	81.1	336	319	94.9	290	86.3	343	326	95.0	302	88.0			
Rhondda Cynon Taff LA	2689	2593	96.4	2437	90.6	2301	85.6	1303	1254	96.2	1181	90.6	1386	1339	96.6	1256	90.6			
<b>Health Board Total</b>	<b>3368</b>	<b>3238</b>	<b>96.1</b>	<b>3029</b>	<b>89.9</b>	<b>2852</b>	<b>84.7</b>	<b>1639</b>	<b>1573</b>	<b>96.0</b>	<b>1471</b>	<b>89.7</b>	<b>1729</b>	<b>1665</b>	<b>96.3</b>	<b>1558</b>	<b>90.1</b>			
<b>Hywel Dda University LHB</b>																				
Carmarthenshire LA	1950	1820	93.3	1657	85.0	1565	80.3	946	895	94.6	822	86.9	1004	925	92.1	835	83.2			
Ceredigion LA	665	628	94.4	579	87.1	554	83.3	333	312	93.7	287	86.2	332	316	95.2	292	88.0			
Pembrokeshire LA	1332	1233	92.6	1131	84.9	772	58.0	596	549	92.1	510	85.6	736	684	92.9	621	84.4			
<b>Health Board Total</b>	<b>3947</b>	<b>3681</b>	<b>93.3</b>	<b>3367</b>	<b>85.3</b>	<b>2891</b>	<b>73.2</b>	<b>1875</b>	<b>1756</b>	<b>93.7</b>	<b>1619</b>	<b>86.3</b>	<b>2072</b>	<b>1925</b>	<b>92.9</b>	<b>1748</b>	<b>84.4</b>			
<b>Powys Teaching LHB</b>	<b>1522</b>	<b>1403</b>	<b>92.2</b>	<b>1289</b>	<b>84.7</b>	<b>1186</b>	<b>77.9</b>	<b>729</b>	<b>670</b>	<b>91.9</b>	<b>619</b>	<b>84.9</b>	<b>793</b>	<b>733</b>	<b>92.4</b>	<b>670</b>	<b>84.5</b>			
Unknown	251	198	78.9	179	71.3	155	61.8	108	87	80.6	77	71.3	142	111	78.2	102	71.8			
<b>Wales Total</b>	<b>35052</b>	<b>33156</b>	<b>94.6</b>	<b>31040</b>	<b>88.6</b>	<b>28071</b>	<b>80.1</b>	<b>17144</b>	<b>16204</b>	<b>94.5</b>	<b>15238</b>	<b>88.9</b>	<b>17897</b>	<b>16947</b>	<b>94.7</b>	<b>15799</b>	<b>88.3</b>			

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

**Table 10.** Percentages of children who are up to date with routine immunisations<sup>12</sup> by four years of age, by quintile of deprivation of the Lower Super Output Area in which they reside. Vaccine uptake is presented for children reaching their 4th birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014.

Health Board	Lower Super Output Areas in Deprivation Quintile 1			Lower Super Output Areas in Deprivation Quintile 2			Lower Super Output Areas in Deprivation Quintile 3			Lower Super Output Areas in Deprivation Quintile 4			Lower Super Output Areas in Deprivation Quintile 5		
	Resident children	Up to date by 4y		Resident children	Up to date by 4y		Resident children	Up to date by 4y		Resident children	Up to date by 4y		Resident children	Up to date by 4y	
		(n)	(n)												
Abertawe Bro Morgannwg University	1115	1001	89.8	749	658	87.9	796	700	87.9	1300	1143	87.9	1866	1588	85.1
Aneurin Bevan University	1047	928	88.6	926	789	85.2	1183	1045	88.3	1837	1612	87.8	1867	1568	84.0
Betsi Cadwaladr University	1260	1149	91.2	1693	1561	92.2	1765	1603	90.8	1565	1387	88.6	1363	1177	86.4
Cardiff and Vale University	1773	1598	90.1	780	677	86.8	696	582	83.6	919	782	85.1	1897	1555	82.0
Cwm Taf University	373	350	93.8	241	220	91.3	571	523	91.6	942	859	91.2	1323	1179	89.1
Hywel Dda University	158	140	88.6	1032	936	90.7	1370	1215	88.7	924	814	88.1	450	377	83.8
Powys Teaching Health Board	178	154	86.5	595	508	85.4	247	220	89.1	228	203	89.0	suppressed*		
<b>Wales Total</b>	<b>5904</b>	<b>5320</b>	<b>90.1</b>	<b>6016</b>	<b>5349</b>	<b>88.9</b>	<b>6628</b>	<b>5888</b>	<b>88.8</b>	<b>7715</b>	<b>6800</b>	<b>88.1</b>	-	-	<b>84.9</b>

<sup>12</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.

LSOA of residence was unknown for 128 Welsh Health Board resident children reaching their 4th birthday between 01/04/2013 and 31/03/2014 and resident on 01/05/2014.

\*Suppressed due to small numbers.

**Table 11.** Uptake of hepatitis B immunisation in children born to hepatitis B positive mothers reaching their 1<sup>st</sup>, 2<sup>nd</sup> and 5<sup>th</sup> birthdays during 01/04/2013 and 31/03/2014 and resident on 01/05/2014.

Area	Uptake in 1 year olds					Uptake in 2 year olds					Uptake in 5 year olds						
	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
<b>Abertawe Bro Morgannwg UHB</b>																	
Bridgend LA	(n)	(n)	(%)	(%)	(%)	(n)	(n)	(%)	(%)	(%)	(%)	(n)	(n)	(%)	(%)	(%)	(%)
1606	0	-	-	-	-	1710	1	100.0	100.0	100.0	100.0	1559	0	-	-	-	-
Neath Port Talbot LA	1495	1	100.0	100.0	100.0	1549	3	100.0	100.0	100.0	100.0	1498	0	-	-	-	-
Swansea LA	2584	3	100.0	100.0	100.0	2762	4	100.0	100.0	100.0	100.0	2662	0	-	-	-	-
<b>Health Board Total</b>	<b>5685</b>	<b>4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>6021</b>	<b>8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>5719</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Aneurin Bevan UHB</b>																	
Blaenau Gwent LA	801	0	-	-	-	757	1	100.0	100.0	100.0	100.0	811	1	100.0	100.0	100.0	100.0
Caerphilly LA	2083	0	-	-	-	2073	2	100.0	100.0	100.0	100.0	2133	1	100.0	100.0	100.0	100.0
Monmouthshire LA	849	0	-	-	-	860	0	-	-	-	-	956	0	-	-	-	-
Newport LA	1893	9	100.0	100.0	88.9	1905	4	100.0	100.0	100.0	100.0	2022	4	100.0	100.0	100.0	100.0
Torfaen LA	1109	0	-	-	-	1081	0	-	-	-	-	1088	1	100.0	100.0	100.0	100.0
<b>Health Board Total</b>	<b>6735</b>	<b>9</b>	<b>100.0</b>	<b>100.0</b>	<b>88.9</b>	<b>6676</b>	<b>7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>7010</b>	<b>7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Betsi Cadwaladr UHB</b>																	
Anglesey LA	805	1	100.0	100.0	100.0	784	0	-	-	-	-	794	0	-	-	-	-
Conwy LA	1142	3	100.0	100.0	100.0	1143	1	100.0	100.0	100.0	100.0	1176	0	-	-	-	-
Denbighshire LA	1021	0	-	-	-	1049	0	-	-	-	-	1064	0	-	-	-	-
Flintshire LA	1627	3	100.0	100.0	100.0	1683	5	100.0	100.0	100.0	100.0	1713	1	100.0	100.0	100.0	100.0
Gwynedd LA	1295	0	-	-	-	1332	0	-	-	-	-	1274	0	-	-	-	-
Wrexham LA	1678	1	100.0	100.0	100.0	1677	4	100.0	100.0	100.0	100.0	1705	7	100.0	100.0	100.0	100.0
<b>Health Board Total</b>	<b>7568</b>	<b>8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>7668</b>	<b>10</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>7726</b>	<b>8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Cardiff and Vale UHB</b>																	
Cardiff LA	4652	19	100.0	100.0	100.0	4700	18	100.0	100.0	100.0	100.0	4450	17	100.0	100.0	100.0	94.1
Vale of Glamorgan LA	1401	0	-	-	-	1525	5	100.0	100.0	100.0	100.0	1551	2	100.0	100.0	100.0	100.0
<b>Health Board Total</b>	<b>6053</b>	<b>19</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>6225</b>	<b>23</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>6001</b>	<b>19</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Cwm Taf UHB</b>																	
Merthyr Tydfil LA	723	0	-	-	-	760	0	-	-	-	-	708	1	100.0	100.0	100.0	100.0
Rhondda Cynon Taff LA	2740	0	-	-	-	2817	1	100.0	100.0	100.0	100.0	2776	3	100.0	100.0	100.0	100.0
<b>Health Board Total</b>	<b>3463</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3577</b>	<b>1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>3484</b>	<b>4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Hywel Dda UHB</b>																	
Carmarthenshire LA	1885	0	-	-	-	1964	4	100.0	100.0	100.0	100.0	1883	3	100.0	100.0	100.0	100.0
Ceredigion LA	684	0	-	-	-	610	1	100.0	100.0	100.0	100.0	593	0	-	-	-	-
Pembrokeshire LA	1249	1	100.0	100.0	100.0	1306	1	100.0	100.0	100.0	100.0	1266	1	100.0	100.0	100.0	100.0
<b>Health Board Total</b>	<b>3818</b>	<b>1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>3880</b>	<b>6</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>3742</b>	<b>4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Powys Teaching HB</b>	<b>1216</b>	<b>1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>1239</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1279</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Unknown	100	0	-	-	-	96	0	-	-	-	-	125	0	-	-	-	-
<b>Wales Total</b>	<b>34638</b>	<b>42</b>	<b>100.0</b>	<b>100.0</b>	<b>97.6</b>	<b>35382</b>	<b>55</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>35086</b>	<b>42</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>97.6</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.

## **Links**

Welsh Health Circular (2005) 081 – MMR immunisation catch-up:  
[http://www.wales.nhs.uk/documents/WHC\\_2005\\_081.pdf](http://www.wales.nhs.uk/documents/WHC_2005_081.pdf)

Public Health Wales Vaccination and Immunisation intranet site HPV pages:  
<http://howis.wales.nhs.uk/sites3/page.cfm?orgId=474&pid=21297>

Link to guidance on follow up of children who have missed scheduled MMR doses (WHC (2005)81):  
[http://www.wales.nhs.uk/documents/WHC\\_2005\\_081.pdf](http://www.wales.nhs.uk/documents/WHC_2005_081.pdf)

Public Health Wales Vaccination and Immunisation intranet (NHS Wales only):  
<http://howis.wales.nhs.uk/sites3/home.cfm?orgid=474>

Public Health Wales Health Protection internet:  
<http://www.wales.nhs.uk/sites3/home.cfm?orgid=457>

## **Report Team**

Report prepared by Public Health Wales Vaccine Preventable Disease Programme (VPDP) and Communicable Disease Surveillance Centre (CDSC), in collaboration with NHS Wales Informatics Service Community Applications Team.

Simon Cottrell	Public Health Wales VPDP/ CDSC
Hannah Evans	Public Health Wales VPDP
Richard Lewis	Public Health Wales VPDP
Richard Roberts	Public Health Wales VPDP
Daniel Thomas	Public Health Wales CDSC
Louise Richards	NWIS Business Intelligence Team
Ceri Rees	NWIS Community Applications Team

Comment and queries relating to this report should be addressed to Public Health Wales VPDP:  
**Tel:** 02920402474  
**Email:** surveillance.requests@wales.nhs.uk

## **Acknowledgments**

Immunisation data for this report is provided by Health Board Child Health Administration Offices, via the National Community Child Health Database. The authors would like to thank Child Health Office Administration Managers and Immunisation Coordinators for their continuing advice and support in the COVER scheme.

## **Suggested citation**

Public Health Wales Vaccine Preventable Disease Programme. Vaccine uptake in children in Wales; COVER Annual report 2014, July 2014. Cardiff: Public Health Wales.