

# Vaccine Uptake in Children in Wales

## COVER Annual report 2011

Data for the year ending 31<sup>st</sup> March 2011



### Key points

- Annual uptake of all routine immunisations in one year old children for Wales as a whole now exceed the 95% target and 18 of the 22 Local Authority areas have exceeded the 95% uptake target for the 5 in 1 immunisation in one year olds for 2010/11.
- Annual uptake of the first dose of MMR at 2 years decreased slightly to 91.5%
- Uptake of the second dose of MMR by 5 years of age increased to 86.9%, 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 90.0%.
- Uptake of a complete three dose course of Human Papilloma Virus (HPV) vaccine in girls in the first year of the routine campaign (2009/10 School Year 8) was 81.6%.

### Findings

1. These results are for children living in Wales in May 2011 and reaching their first, second, fifth, 15<sup>th</sup> and 16<sup>th</sup> birthdays in the year ending March 31<sup>st</sup> 2011, and girls in school year 8 in 2009/2010.
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 remained stable at 95.9%. Uptake ranged by Health Board (HB) from 95.3% (Cardiff and Vale University HB) to 97.3% (Cwm Taf HB) and by Local Authority (LA) from 93.8% (Conwy) to 98.2% (Merthyr Tydfil). Eighteen of the 22 LAs achieved the 95% target (Figures 1, 2, 4 and Tables 1, 2).
3. Annual uptake of a completed course of MenC<sup>2</sup> vaccine in children reaching their first birthday this year was 95.4% ranging by HB from 94.2 % (Cardiff and Vale University HB) to 97.3 % (Cwm Taf HB) and by LA from 93.5 % (Conwy and Monmouthshire) to 98.4 % (Merthyr Tydfil) (Figure 1 and Tables 1, 2).
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 95.7%, ranging by HB from 94.5% (Cardiff and Vale University HB) to 97.3% (Cwm Taf HB) and by LA from 94.0% (Monmouthshire) to 98.1% (Merthyr Tydfil) (Figure 1 and Table 2).
5. Uptake of one dose of MMR<sup>4</sup> by two years of age decreased by 0.5% to 91.5%. Uptake ranged by HB from 89.5 % (Hywel Dda HB) to 93.2 % (Cwm Taf HB) and by LA from 88.3 % (Pembrokeshire) to 94.4 % (Merthyr Tydfil). No HB achieved the annual uptake of 95% for one dose of MMR by 2 years of age (Figures 1, 2 and 5 and Tables 1, 3), although uptake in 18 of the 22 LA areas exceeded 90%.
6. Annual uptake of the final dose of Pneumococcal Conjugate Vaccine (PCV3)<sup>5</sup> by 2 years of age was 91.0%. Uptake by HB ranged from 88.8% (Hywel Dda HB) to 92.8% (Powys Teaching HB) and by LA from 86.8% (Pembrokeshire) to 93.7% (Blaenau Gwent and Wrexham) (Tables 1,3).
7. Annual uptake of the Hib/MenC booster scheduled by 2 years of age was 93.3%, ranging by HB from 91.5% (Cardiff and Vale University HB) to 95.0% (Cwm Taf HB) and by LA from 90.9% (Cardiff) to 95.0% (Blaenau Gwent and Rhondda Cynon Taf) (Tables 1, 3).

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

<sup>2</sup> Men C vaccine protects against meningitis caused by meningococcus group C infection. Children reaching 1yr of age would have been offered one dose of MenC vaccine at 3 months of age and one dose at 4 months of age.

<sup>3</sup> PCV protects against pneumococcal meningitis, bacteraemia, pneumonia and otitis media. Children reaching 1yr 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 2yrs would have been offered their third and final PCV dose at around 13 months of age.

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

<sup>5</sup> DTaP/IPV (and dTaP/IPV) vaccines boost protection against diphtheria, tetanus, pertussis and polio infection before school entry

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

8. At five years of age annual uptake of two doses of MMR has increased by 1.1% to 86.9%. This is the highest ever annual uptake of MMR2 at five years of age (Figures 1, 3, 6, Tables 1, 4). Uptake of the second dose of MMR by five years of age ranged by HB from 83.3% (Powys Teaching HB) to 89.0% (Betsi Cadwaladr University HB) and by LA from 83.3% (Powys Teaching HB) to 90.7% (Wrexham). No LHB achieved the 95% target for this immunisation.
9. Uptake of the “4 in 1” DTaP/IPV<sup>5</sup> pre-school booster in children reaching their fifth birthday this year was 90.0%, ranging by HB from 87.9% (Cardiff and Vale University HB) to 91.6% (Cwm Taf HB) and by LA from 86.6% (Cardiff) to 92.8% (Gwynedd) (Figures 3, 7, Tables 1, 4).
10. Uptake of all three doses of HPV vaccine, routinely scheduled in School Year 8, in girls in the 2009/10 School Year 8 (reaching their 13<sup>th</sup> birthday between 01/09/09 and 31/08/10) was 81.6%, ranging by HB from 77.7% (Hywel Dda HB) to 87.9% (Cwm Taf HB) and by LA from 72.2% (Monmouthshire) to 90.4% (Blaenau Gwent) (Table 7). Uptake in girls in the 2009/10 School Year 8 group was lower than for girls in the 2008/9 School Year 8 group (85.3%). Immunisation sessions for the current (2010/11) School Year 8 are in progress and uptakes for one and two HPV doses in this group are reported in [\*\*COVER Report 98\*\*](#).
11. At 15 years of age, annual coverage of two doses of MMR was 82.1% (Table 5), ranging by HB from 72.1% (Powys Teaching HB) to 86.2% (Betsi Cadwaladr University HB) and by LA from 69.6% (Monmouthshire) to 88.5% (Wrexham). Coverage of one dose of MMR in 15 year olds was 91.1%, ranging by HB from 86.0% (Powys Teaching HB) to 94.5% (Betsi Cadwaladr University HB) and by LA from 79.9% (Monmouthshire) to 95.4% (Flintshire). A breakdown by sex indicates that 82.7% of girls had received a full (2 MMR doses) course of immunisation against rubella this year and coverage of only 1 dose was 91.4%.
12. At 16 years of age annual coverage of two doses of MMR was 83.5% (Tables 1, 6), ranging by HB from 78.4% (Powys Teaching HB) to 88.9% (Betsi Cadwaladr University HB) and by LA from 73.2% (Monmouthshire) to 91.4% (Wrexham). Annual coverage of one dose of MMR in 16 year olds was 91.9%, ranging by LA from 83.6% (Monmouthshire) to 96.9% (Wrexham). A breakdown by sex indicates that 84.0% of girls had received a full (2 MMR doses) course of immunisation against rubella this year and coverage of only 1 dose was 91.8%.
13. National uptake of the Td/IPV<sup>6</sup> teenage booster in children reaching 16 years of age in the year ending 31<sup>st</sup> March 2011 was 60.8% (Tables 1, 6), ranging by HB from 17.3% (Aneurin Bevan HB) to 77.9% (Cwm Taf HB) and by LA from 5.5% (Blaenau Gwent) to 83.1% (Denbighshire).

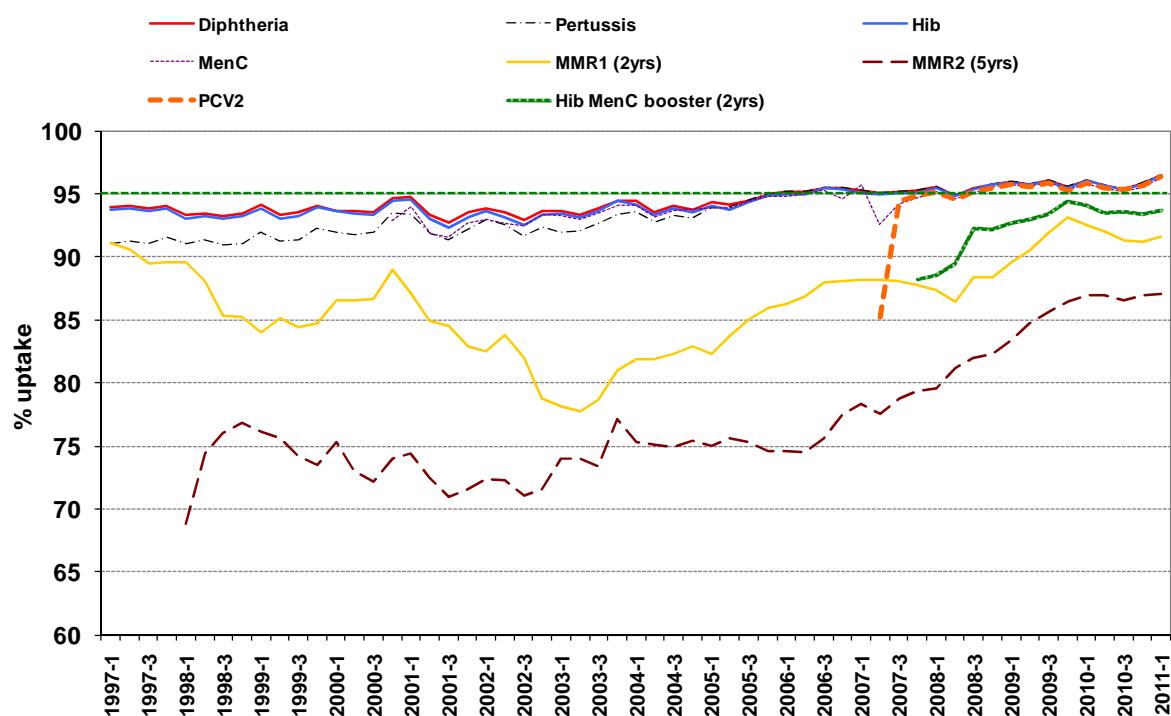
## Comment

Overall annual trends in immunisation uptake in Wales remain positive and 18 LA areas in Wales achieved annual uptakes in excess of 95% for the 5 in 1 primary and pneumococcal primaries given to children under one year of age. Annual uptake of the first dose of MMR in two year olds decreased slightly. Children reaching two years of age between April 2010 and March 2011 would have been scheduled to receive their routine first doses of MMR between May 2009 and April 2010. The slight decline in uptake in this age group could be due to increased pressure on Primary Care during the pandemic and the additional burden of the pandemic immunisation campaign. Uptake of the second dose of MMR in five year old children continues to improve; and although there is some way to go to meet the 95% uptake of two doses needed to eliminate the measles virus, uptake is now higher than it has ever been.

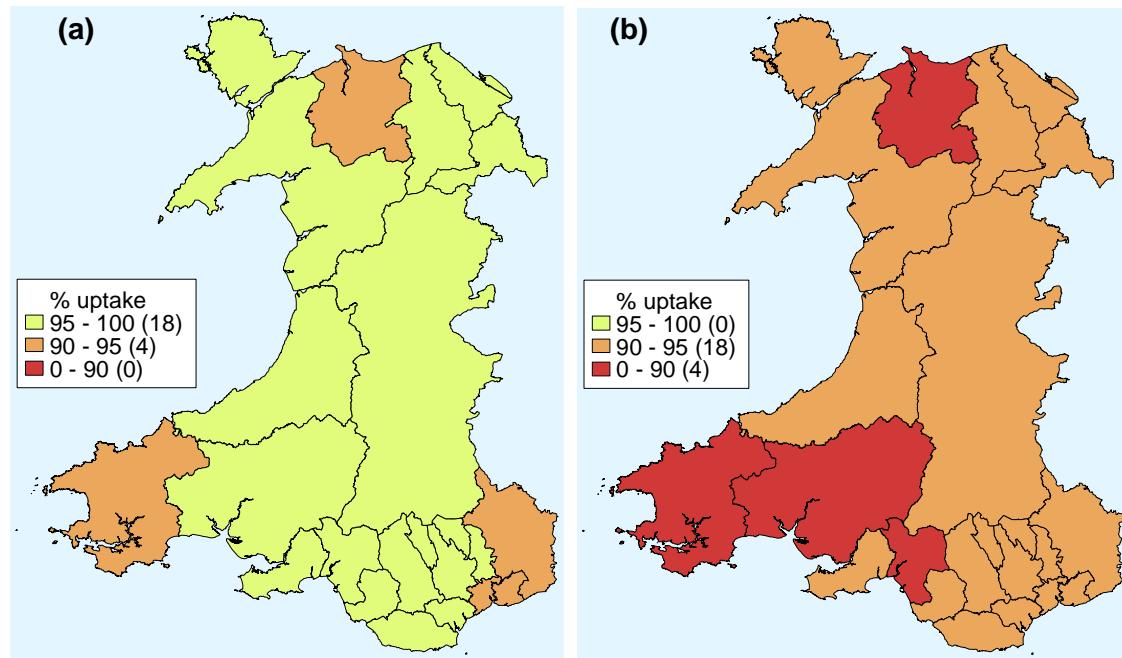
In addition to sustained improvement in annual uptake of immunisation, the gap between LA areas achieving the highest and lowest uptake of one MMR dose in two year olds and two MMR doses in five year olds has more than halved since 2005. Measles incidence in Europe has increased during 2010 and 2011, and many of those affected have been teenagers and younger adults. It is important that children and young people who have missed out scheduled measles vaccination are offered the chance to catch up.

**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.

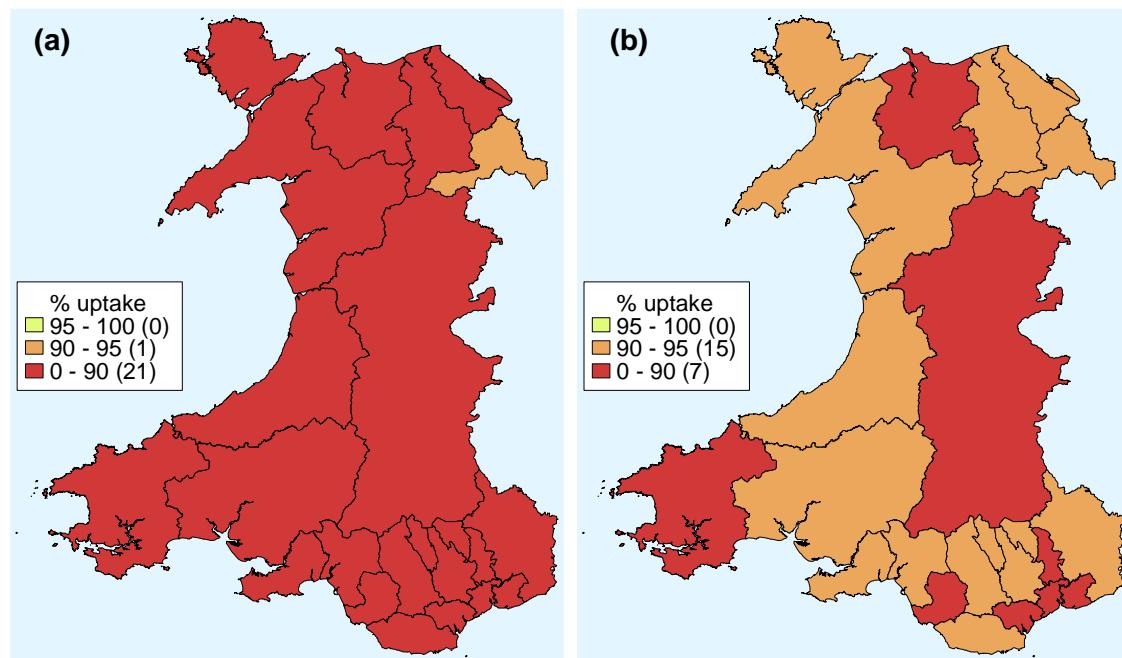
**Figure 1.** Percentage uptake of childhood immunisations in Wales, quarter 1 1997 to quarter 1 2011. Data are for: children reaching 1 year of age each quarter for diphtheria, pertussis, Hib, MenC and pneumococcal conjugate vaccine, children reaching 2 years of age for MMR1 (first dose) and the Hib MenC booster, and 5 years of age for MMR2 (second dose).



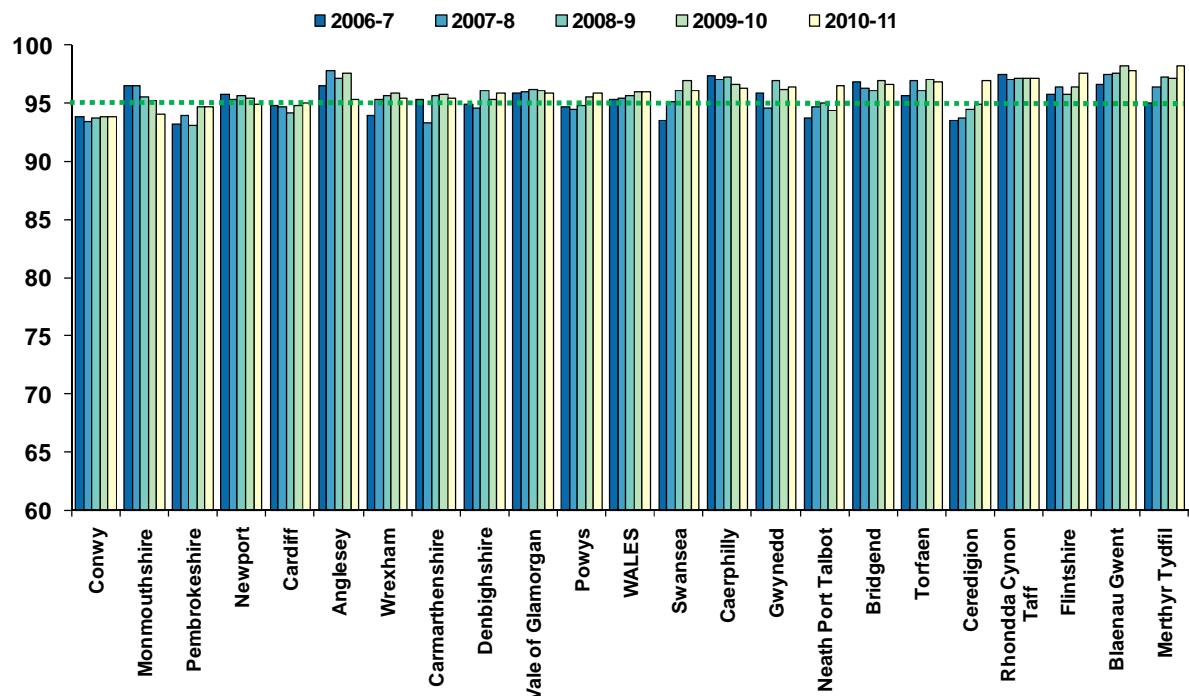
**Figure 2. (a)** Uptake of 5 in 1 vaccine in Welsh Local Authority areas in children reaching their 1<sup>st</sup> birthday between 01/04/10 and 31/03/11. **(b)** Uptake of at least 1 dose of MMR immunisation in Welsh Local Authority areas in children reaching their 2<sup>nd</sup> birthday between 01/04/10 and 31/03/11



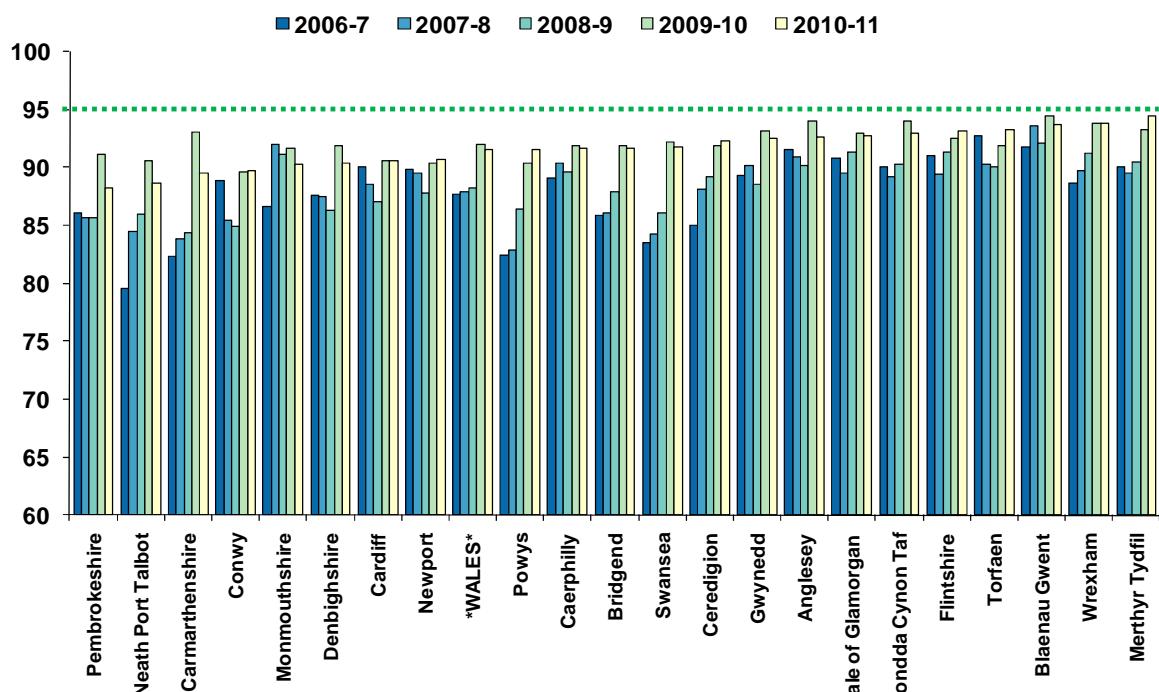
**Figure 3. (a)** Uptake of two doses of MMR vaccine in Welsh Local Authority areas in children reaching their 5<sup>th</sup> birthday between 01/04/10 and 31/03/11. **(b)** Uptake of 4 in 1 vaccine in Welsh Local Authority areas in children reaching their 5<sup>th</sup> birthday between 01/04/10 and 31/03/11.



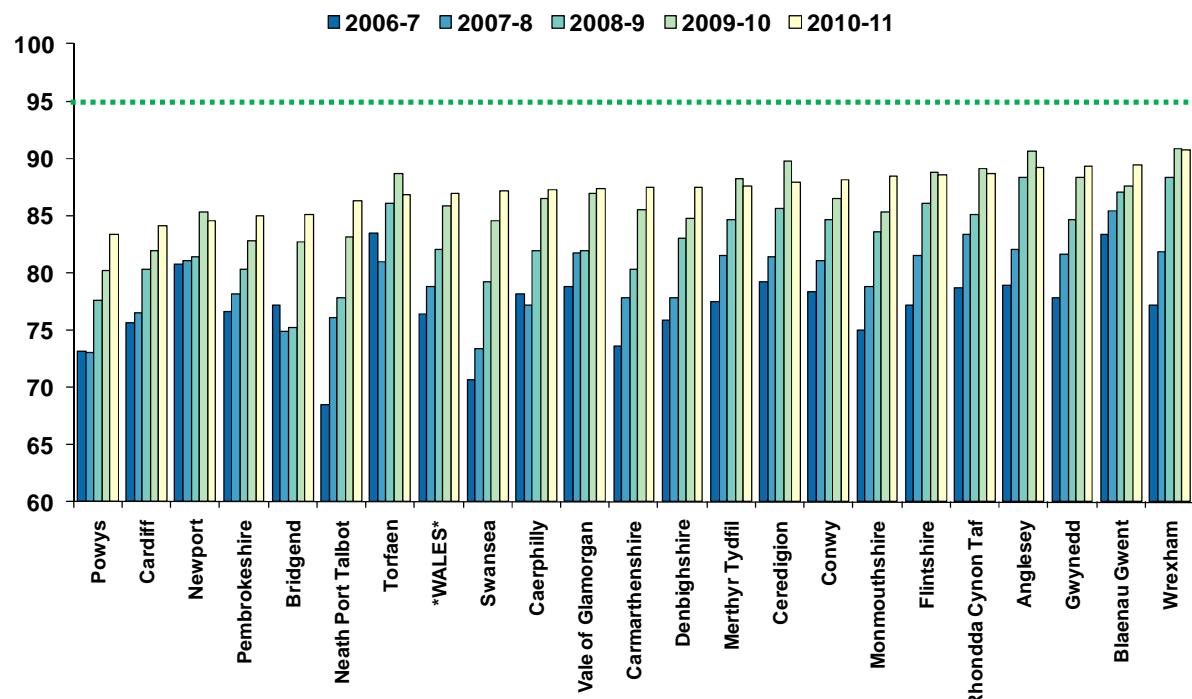
**Figure 4.** Annual uptake of 5 in 1 vaccine by 1 year of age (2006 – 2011 financial years, ranked by uptake in 2010-2011).



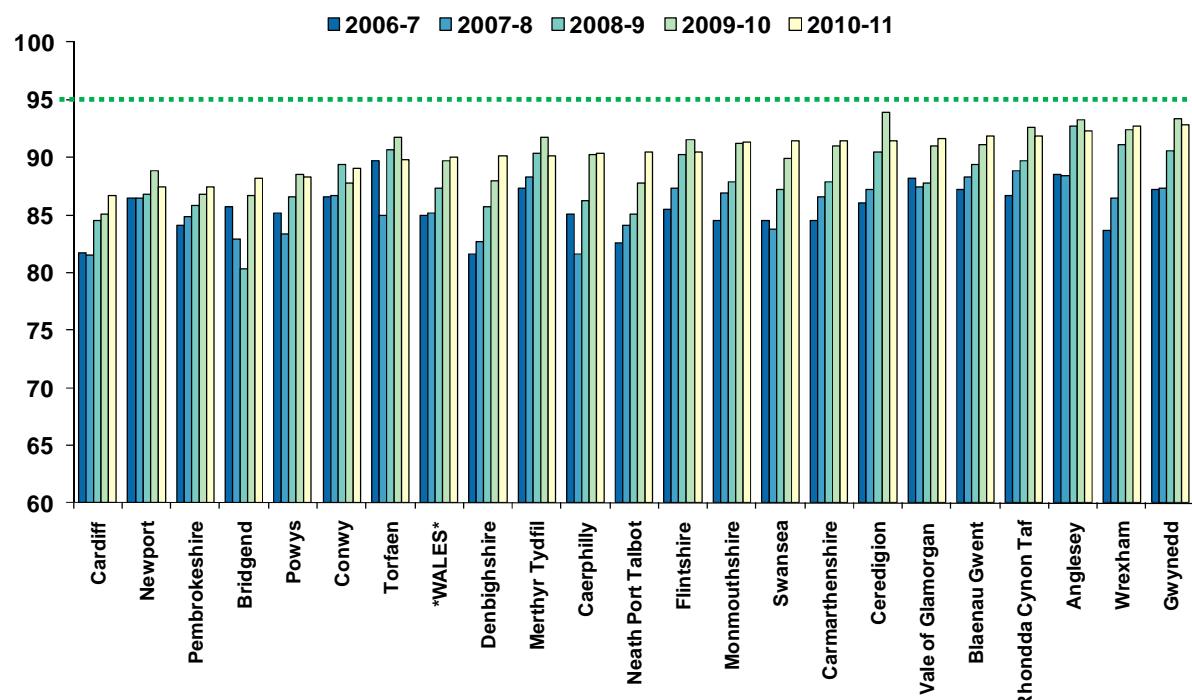
**Figure 5.** Annual uptake of 1 dose of MMR by 2 years of age (2006 – 2011 financial years, ranked by uptake in 2010-2011).



**Figure 6.** Annual uptake of 2 doses of MMR by 5 years of age (2006 – 2011 financial years, ranked by uptake in 2010-2011).



**Figure 7.** Annual uptake of the 4 in 1 pre-school booster by 6 years of age (2005 – 2011 financial years, ranked by uptake in 2010-2011).



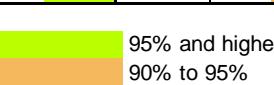
**Table1.** Summary table with uptake of selected immunisations in resident children reaching their 1st, 2nd, 5th and 15th birthday between 01/04/10 and 31/03/11.

Area	Age 1 year					Age 2 years					Age 5 years					Age 16 years									
	Resident children (n)	5 in 1* (n)	5 in 1* (%)	MenC (n)	MenC (%)	Resident children (n)	MMR1 (n)	MMR1 (%)	PCVf <sup>‡</sup> (n)	PCVf <sup>‡</sup> (%)	Hib/MenC booster (n)	Hib/MenC booster (%)	Resident children (n)	MMR2 (n)	MMR2 (%)	4 in 1* (n)	4 in 1* (%)	Resident children (n)	MMR1 (n)	MMR1 (%)	MMR2 (n)	MMR2 (%)	3 in 1 Teenage booster** (n)	3 in 1 Teenage booster** (%)	
<b>Abertawe Bro Morgannwg University LHB</b>																									
Bridgend LA	1610	1555	96.6	1549	96.2	1539	1410	91.6	1398	90.8	1452	94.3	1502	1278	85.1	1324	88.1	1563	1414	90.5	1291	82.6	1144	73.2	
Neath Port Talbot LA	1571	1516	96.5	1509	96.1	1500	1330	88.7	1338	89.2	1390	92.7	1517	1309	86.3	1372	90.4	1651	1557	94.3	1408	85.3	1240	75.1	
Swansea LA	2649	2545	96.1	2528	95.4	2672	2452	91.8	2462	92.1	2531	94.7	2450	2136	87.2	2239	91.4	2598	2417	93.0	2124	81.8	2021	77.8	
<b>Health Board Total</b>	<b>5830</b>	<b>5616</b>	<b>96.3</b>	<b>5586</b>	<b>95.8</b>	<b>5711</b>	<b>5192</b>	<b>90.9</b>	<b>5198</b>	<b>91.0</b>	<b>5373</b>	<b>94.1</b>	<b>5469</b>	<b>4723</b>	<b>86.4</b>	<b>4935</b>	<b>90.2</b>	<b>5812</b>	<b>5388</b>	<b>92.7</b>	<b>4823</b>	<b>83.0</b>	<b>4405</b>	<b>75.8</b>	
<b>Aneurin Bevan LHB</b>																									
Blaenau Gwent LA	808	790	97.8	789	97.6	806	755	93.7	755	93.7	766	95.0	738	660	89.4	678	91.9	856	801	93.6	748	87.4	47	5.5	
Caerphilly LA	2164	2085	96.3	2084	96.3	2118	1940	91.6	1933	91.3	1990	94.0	2033	1775	87.3	1837	90.4	2142	1948	90.9	1747	81.6	258	12.0	
Monmouthshire LA	832	784	94.1	778	93.5	904	816	90.3	820	90.7	846	93.6	860	761	88.5	785	91.3	1217	1017	83.6	891	73.2	494	40.6	
Newport LA	1895	1799	94.9	1792	94.6	1967	1783	90.6	1768	89.9	1812	92.1	1728	1462	84.6	1511	87.4	1955	1736	88.8	1565	80.1	318	16.3	
Torfaen LA	1063	1029	96.8	1027	96.6	1079	1006	93.2	993	92.0	1020	94.5	1102	957	86.8	990	89.8	1267	1208	95.3	1123	88.6	172	13.6	
<b>Health Board Total</b>	<b>6762</b>	<b>6487</b>	<b>95.9</b>	<b>6470</b>	<b>95.7</b>	<b>6874</b>	<b>6300</b>	<b>91.6</b>	<b>6269</b>	<b>91.2</b>	<b>6434</b>	<b>93.6</b>	<b>6461</b>	<b>5615</b>	<b>86.9</b>	<b>5801</b>	<b>89.8</b>	<b>7437</b>	<b>6710</b>	<b>90.2</b>	<b>6074</b>	<b>81.7</b>	<b>1289</b>	<b>17.3</b>	
<b>Betsi Cadwaladr University LHB</b>																									
Anglesey LA	751	716	95.3	714	95.1	748	693	92.6	690	92.2	707	94.5	688	614	89.2	635	92.3	830	788	94.9	728	87.7	585	70.5	
Conwy LA	1134	1064	93.8	1060	93.5	1167	1047	89.7	1040	89.1	1077	92.3	1067	940	88.1	950	89.0	1267	1205	95.1	1111	87.7	1012	79.9	
Denbighshire LA	1016	974	95.9	974	95.9	1024	925	90.3	925	90.3	949	92.7	991	867	87.5	893	90.1	1133	1070	94.4	982	86.7	942	83.1	
Flintshire LA	1725	1683	97.6	1676	97.2	1681	1565	93.1	1560	92.8	1575	93.7	1641	1453	88.5	1485	90.5	1825	1761	96.5	1639	89.8	1376	75.4	
Gwynedd LA	1284	1238	96.4	1227	95.6	1257	1162	92.4	1171	93.2	1188	94.5	1241	1108	89.3	1152	92.8	1373	1306	95.1	1222	89.0	1002	73.0	
Wrexham LA	1669	1593	95.4	1580	94.7	1710	1603	93.7	1602	93.7	1611	94.2	1575	1429	90.7	1460	92.7	1442	1397	96.9	1318	91.4	1142	79.2	
<b>Health Board Total</b>	<b>7579</b>	<b>7268</b>	<b>95.9</b>	<b>7231</b>	<b>95.4</b>	<b>7587</b>	<b>6995</b>	<b>92.2</b>	<b>6988</b>	<b>92.1</b>	<b>7107</b>	<b>93.7</b>	<b>7203</b>	<b>6411</b>	<b>89.0</b>	<b>6575</b>	<b>91.3</b>	<b>7870</b>	<b>7527</b>	<b>95.6</b>	<b>7000</b>	<b>88.9</b>	<b>6059</b>	<b>77.0</b>	
<b>Cardiff and Vale University LHB</b>																									
Cardiff LA	4545	4320	95.0	4256	93.6	4558	4130	90.6	4027	88.4	4143	90.9	3998	3363	84.1	3464	86.6	3972	3587	90.3	3221	81.1	2817	70.9	
Vale of Glamorgan LA	1513	1452	95.9	1448	95.7	1494	1385	92.7	1382	92.5	1397	93.5	1380	1205	87.3	1264	91.6	1616	1502	92.9	1387	85.8	1312	81.2	
<b>Health Board Total</b>	<b>6058</b>	<b>5772</b>	<b>95.3</b>	<b>5704</b>	<b>94.2</b>	<b>6052</b>	<b>5515</b>	<b>91.1</b>	<b>5409</b>	<b>89.4</b>	<b>5540</b>	<b>91.5</b>	<b>5378</b>	<b>4568</b>	<b>84.9</b>	<b>4728</b>	<b>87.9</b>	<b>5588</b>	<b>5089</b>	<b>91.1</b>	<b>4608</b>	<b>82.5</b>	<b>4129</b>	<b>73.9</b>	
<b>Cwm Taf LHB</b>																									
Merthyr Tydfil LA	673	661	98.2	662	98.4	720	680	94.4	669	92.9	683	94.9	619	542	87.6	558	90.1	728	675	92.7	620	85.2	579	79.5	
Rhondda Cynon Taff LA	2833	2752	97.1	2750	97.1	2822	2622	92.9	2605	92.3	2681	95.0	2666	2363	88.6	2450	91.9	2734	2597	95.0	2409	88.1	2119	77.5	
<b>Health Board Total</b>	<b>3506</b>	<b>3413</b>	<b>97.3</b>	<b>3412</b>	<b>97.3</b>	<b>3542</b>	<b>3302</b>	<b>93.2</b>	<b>3274</b>	<b>92.4</b>	<b>3364</b>	<b>95.0</b>	<b>3285</b>	<b>2905</b>	<b>88.4</b>	<b>3008</b>	<b>91.6</b>	<b>3462</b>	<b>3272</b>	<b>94.5</b>	<b>3029</b>	<b>87.5</b>	<b>2698</b>	<b>77.9</b>	
<b>Hywel Dda LHB</b>																									
Carmarthenshire LA	1918	1831	95.5	1820	94.9	1915	1713	89.5	1707	89.1	1762	92.0	1814	1587	87.5	1658	91.4	2023	1794	88.7	1587	78.4	1221	60.4	
Ceredigion LA	664	644	97.0	643	96.8	607	560	92.3	558	91.9	563	92.8	620	545	87.9	567	91.5	722	667	92.4	596	82.5	555	76.9	
Pembrokeshire LA	1297	1228	94.7	1224	94.4	1252	1105	88.3	1087	86.8	1145	91.5	1220	1037	85.0	1067	87.5	1433	1275	89.0	1147	80.0	354	24.7	
<b>Health Board Total</b>	<b>3879</b>	<b>3703</b>	<b>95.5</b>	<b>3687</b>	<b>95.1</b>	<b>3774</b>	<b>3378</b>	<b>89.5</b>	<b>3352</b>	<b>88.8</b>	<b>3470</b>	<b>91.9</b>	<b>3654</b>	<b>3169</b>	<b>86.7</b>	<b>3292</b>	<b>90.1</b>	<b>4178</b>	<b>3736</b>	<b>89.4</b>	<b>3330</b>	<b>79.7</b>	<b>2130</b>	<b>51.0</b>	
<b>Powys Teaching LHB</b>	<b>1201</b>	<b>1152</b>	<b>95.9</b>	<b>1143</b>	<b>95.2</b>	<b>1249</b>	<b>1143</b>	<b>91.5</b>	<b>1159</b>	<b>92.8</b>	<b>1179</b>	<b>94.4</b>	<b>1253</b>	<b>1044</b>	<b>83.3</b>	<b>1107</b>	<b>88.3</b>	<b>1502</b>	<b>1328</b>	<b>88.4</b>	<b>1178</b>	<b>78.4</b>	<b>1169</b>	<b>77.8</b>	
Unknown	166	154	92.8	154	92.8	230	213	92.6	214	93.0	215	93.5	166	135	81.3	139	83.7	370	249	67.3	196	53.0	152	41.1	
<b>Wales Total</b>	<b>34981</b>	<b>33565</b>	<b>95.9</b>	<b>33387</b>	<b>95.4</b>	<b>35019</b>	<b>32038</b>	<b>91.5</b>	<b>31863</b>	<b>91.0</b>	<b>32682</b>	<b>93.3</b>	<b>32869</b>	<b>28570</b>	<b>86.9</b>	<b>29585</b>	<b>90.0</b>	<b>36219</b>	<b>33299</b>	<b>91.9</b>	<b>30238</b>	<b>83.5</b>	<b>22031</b>	<b>60.8</b>	

\* Uptake of pertussis used as proxy

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

‡ Children receiving the final dose of PCV



**Table 2.** Vaccine uptake in children reaching their 1st birthday between 01/04/10 and 31/03/11 and resident on 01/05/2011

\* Full primary 2 dose course of pneumococcal conjugate vaccine

**Table 3.** Vaccine uptake in children reaching their 2nd birthday between 01/04/10 and 31/03/11 and resident on 01/05/2011.

Area	Resident children			D3	T3	P3	Po3	Hib3	MMR1	Menc*	PCV2**	PCVf***	HibMenCb
	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(n)	(n)	(n)	(n)	(n)
<b>Abertawe Bro Morgannwg University LHE</b>													
Bridgend LA	1539	1516	98.5	1516	98.5	1516	98.5	1514	98.4	1512	98.2	1410	91.6
Neath Port Talbot LA	1500	1451	96.7	1451	96.7	1451	96.7	1447	96.5	1448	96.5	1330	88.7
Swansea LA	2672	2617	97.9	2617	97.9	2617	97.9	2616	97.9	2607	97.6	2452	91.8
<b>Health Board Total</b>	<b>5711</b>	<b>5584</b>	<b>97.8</b>	<b>5584</b>	<b>97.8</b>	<b>5584</b>	<b>97.8</b>	<b>5577</b>	<b>97.7</b>	<b>5567</b>	<b>97.5</b>	<b>5192</b>	<b>90.9</b>
<b>Aneurin Bevan LHB</b>													
Blaenau Gwent LA	806	795	98.6	795	98.6	795	98.6	795	98.6	755	93.7	794	98.5
Caerphilly LA	2118	2077	98.1	2077	98.1	2077	98.1	2077	98.1	1940	91.6	2060	97.3
Monmouthshire LA	904	864	95.6	864	95.6	864	95.6	864	95.6	863	95.5	816	90.3
Newport LA	1967	1917	97.5	1917	97.5	1917	97.5	1914	97.3	1911	97.2	1783	90.6
Torfaen LA	1079	1062	98.4	1062	98.4	1062	98.4	1062	98.4	1006	93.2	1058	98.1
<b>Health Board Total</b>	<b>6874</b>	<b>6715</b>	<b>97.7</b>	<b>6715</b>	<b>97.7</b>	<b>6715</b>	<b>97.7</b>	<b>6712</b>	<b>97.6</b>	<b>6708</b>	<b>97.6</b>	<b>6300</b>	<b>91.6</b>
<b>Betsi Cadwaladr University LHB</b>													
Anglesey LA	748	732	97.9	732	97.9	732	97.9	732	97.9	731	97.7	693	92.6
Conwy LA	1167	1130	96.8	1130	96.8	1130	96.8	1130	96.8	1047	89.7	1121	96.1
Denbighshire LA	1024	989	96.6	989	96.6	989	96.6	989	96.6	925	90.3	980	95.7
Flintshire LA	1681	1643	97.7	1643	97.7	1643	97.7	1642	97.7	1641	97.6	1565	93.1
Gwynedd LA	1257	1215	96.7	1215	96.7	1215	96.7	1216	96.7	1213	96.5	1162	92.4
Wrexham LA	1710	1668	97.5	1668	97.5	1668	97.5	1668	97.5	1667	97.5	1603	93.7
<b>Health Board Total</b>	<b>7587</b>	<b>7377</b>	<b>97.2</b>	<b>7377</b>	<b>97.2</b>	<b>7377</b>	<b>97.2</b>	<b>7371</b>	<b>97.2</b>	<b>6995</b>	<b>92.2</b>	<b>7291</b>	<b>96.1</b>
<b>Cardiff and Vale University LHB</b>													
Cardiff LA	4558	4423	97.0	4423	97.0	4423	97.0	4421	97.0	4414	96.8	4130	90.6
Vale of Glamorgan LA	1494	1467	98.2	1467	98.2	1466	98.1	1467	98.2	1465	98.1	1385	92.7
<b>Health Board Total</b>	<b>6052</b>	<b>5890</b>	<b>97.3</b>	<b>5890</b>	<b>97.3</b>	<b>5889</b>	<b>97.3</b>	<b>5888</b>	<b>97.3</b>	<b>5879</b>	<b>97.1</b>	<b>5515</b>	<b>91.1</b>
<b>Cwm Taf LHB</b>													
Merthyr Tydfil LA	720	699	97.1	699	97.1	699	97.1	698	96.9	699	97.1	680	94.4
Rhondda Cynon Taff LA	2822	2767	98.1	2767	98.1	2767	98.1	2767	98.1	2766	98.0	2622	92.9
<b>Health Board Total</b>	<b>3542</b>	<b>3466</b>	<b>97.9</b>	<b>3466</b>	<b>97.9</b>	<b>3466</b>	<b>97.9</b>	<b>3465</b>	<b>97.8</b>	<b>3465</b>	<b>97.8</b>	<b>3302</b>	<b>93.2</b>
<b>Hywel Dda LHB</b>													
Carmarthenshire LA	1915	1853	96.8	1853	96.8	1853	96.8	1853	96.8	1852	96.7	1713	89.5
Ceredigion LA	607	579	95.4	579	95.4	579	95.4	579	95.4	579	95.4	560	92.3
Pembrokeshire LA	1252	1200	95.8	1200	95.8	1200	95.8	1198	95.7	1195	95.4	1105	88.3
<b>Health Board Total</b>	<b>3774</b>	<b>3632</b>	<b>96.2</b>	<b>3632</b>	<b>96.2</b>	<b>3632</b>	<b>96.2</b>	<b>3630</b>	<b>96.2</b>	<b>3626</b>	<b>96.1</b>	<b>3378</b>	<b>89.5</b>
<b>Powys Teaching LHB</b>													
Unknown	1249	1206	96.6	1206	96.6	1206	96.6	1204	96.4	1202	96.2	1143	91.5
<b>Wales Total</b>	<b>35019</b>	<b>34091</b>	<b>97.4</b>	<b>34091</b>	<b>97.4</b>	<b>34090</b>	<b>97.3</b>	<b>34074</b>	<b>97.3</b>	<b>34039</b>	<b>97.2</b>	<b>32038</b>	<b>91.5</b>

\* Reflects uptake of the completed primary course in this age group

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

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

**Table 4.** Vaccine uptake in children reaching their 5th birthday between 01/04/10 and 31/03/11 and resident on 01/05/2011.

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)	(%)	(n)										
Bridgend LA	1502	1464	97.5	1464	97.5	1463	97.4	1463	97.4	1458	97.1	1458	97.1	1096	73.0
Neath Port Talbot LA	1517	1478	97.4	1478	97.4	1478	97.4	1472	97.0	1466	96.6	1461	96.3	1171	77.2
Swansea LA	2450	2365	96.5	2365	96.5	2359	96.3	2352	96.0	2311	94.3	1802	73.6	1388	56.7
<b>Health Board Total</b>	<b>5469</b>	<b>5307</b>	<b>97.0</b>	<b>5307</b>	<b>97.0</b>	<b>5306</b>	<b>97.0</b>	<b>5294</b>	<b>96.8</b>	<b>5276</b>	<b>96.5</b>	<b>5230</b>	<b>95.6</b>	<b>4069</b>	<b>74.4</b>
<b>Aneurin Bevan LHB</b>															
Blaenau Gwent LA	738	720	97.6	720	97.6	720	97.6	721	97.7	719	97.4	719	97.4	633	85.8
Caerphilly LA	2033	1987	97.7	1987	97.7	1987	97.7	1985	97.6	1985	97.6	1981	97.4	1662	81.8
Monmouthshire LA	860	824	95.8	824	95.8	824	95.8	822	95.6	822	95.6	816	94.9	742	86.3
Newport LA	1728	1659	96.0	1659	96.0	1659	96.0	1656	95.8	1651	95.5	1619	93.7	1380	79.9
Torfaen LA	1102	1077	97.7	1077	97.7	1077	97.7	1076	97.6	1076	96.7	1066	96.7	920	83.5
<b>Health Board Total</b>	<b>6461</b>	<b>6267</b>	<b>97.0</b>	<b>6267</b>	<b>97.0</b>	<b>6267</b>	<b>97.0</b>	<b>6260</b>	<b>96.9</b>	<b>6253</b>	<b>96.8</b>	<b>6201</b>	<b>96.0</b>	<b>5337</b>	<b>82.6</b>
<b>Betsi Cadwaladr University LHB</b>															
Anglesey LA	688	662	96.2	662	96.2	662	96.2	662	96.2	660	95.9	656	95.3	558	81.1
Conwy LA	1067	1026	96.2	1026	96.2	1026	96.2	1024	96.0	1025	96.1	1013	94.9	795	74.5
Denbighshire LA	991	964	97.3	964	97.3	964	97.3	964	97.3	960	96.9	947	95.6	770	77.7
Flintshire LA	1641	1596	97.3	1596	97.3	1596	97.3	1596	97.3	1592	97.0	1578	96.2	1293	78.8
Gwynedd LA	1241	1202	96.9	1202	96.9	1202	96.9	1202	96.9	1195	96.3	1178	94.9	997	80.3
Wrexham LA	1575	1537	97.6	1537	97.6	1536	97.5	1535	97.5	1527	97.0	1505	95.6	1353	85.9
<b>Health Board Total</b>	<b>7203</b>	<b>6987</b>	<b>97.0</b>	<b>6987</b>	<b>97.0</b>	<b>6986</b>	<b>97.0</b>	<b>6983</b>	<b>96.9</b>	<b>6959</b>	<b>96.6</b>	<b>6877</b>	<b>95.5</b>	<b>5766</b>	<b>80.0</b>
<b>Cardiff and Vale University LHB</b>															
Cardiff LA	3998	3863	96.6	3864	96.6	3861	96.6	3858	96.5	3815	95.4	3659	91.5	3034	75.9
Vale of Glamorgan LA	1380	1345	97.5	1345	97.5	1345	97.5	1345	97.5	1344	97.4	1328	96.2	1079	78.2
<b>Health Board Total</b>	<b>5378</b>	<b>5208</b>	<b>96.8</b>	<b>5209</b>	<b>96.9</b>	<b>5206</b>	<b>96.8</b>	<b>5203</b>	<b>96.7</b>	<b>5159</b>	<b>95.9</b>	<b>4987</b>	<b>92.7</b>	<b>4113</b>	<b>76.5</b>
<b>Cwm Taf LHB</b>															
Merthyr Tydfil LA	619	590	95.3	590	95.3	590	95.3	587	94.8	584	94.3	579	93.5	507	81.9
Rhondda Cynon Taff LA	2666	2620	98.3	2620	98.3	2620	98.3	2617	98.2	2619	98.2	2611	97.9	2204	82.7
<b>Health Board Total</b>	<b>3285</b>	<b>3210</b>	<b>97.7</b>	<b>3210</b>	<b>97.7</b>	<b>3210</b>	<b>97.7</b>	<b>3204</b>	<b>97.5</b>	<b>3203</b>	<b>97.5</b>	<b>3190</b>	<b>97.1</b>	<b>2711</b>	<b>82.5</b>
<b>Hywel Dda LHB</b>															
Carmarthenshire LA	1814	1756	96.8	1756	96.8	1756	96.8	1747	96.3	1741	96.0	1724	95.0	1319	72.7
Ceredigion LA	620	586	94.5	586	94.5	586	94.5	586	94.5	583	94.0	571	92.1	507	81.8
Pembrokeshire LA	1220	1175	96.3	1175	96.3	1175	96.3	1174	96.2	1174	96.2	1165	95.5	924	75.7
<b>Health Board Total</b>	<b>3654</b>	<b>3517</b>	<b>96.3</b>	<b>3517</b>	<b>96.3</b>	<b>3517</b>	<b>96.3</b>	<b>3507</b>	<b>96.0</b>	<b>3498</b>	<b>95.7</b>	<b>3460</b>	<b>94.7</b>	<b>2750</b>	<b>75.3</b>
<b>Powys Teaching LHB</b>															
Unknown	1253	1196	95.5	1196	95.5	1196	95.5	1189	94.9	1188	94.8	1170	93.4	967	77.2
<b>Wales Total</b>	<b>32869</b>	<b>31847</b>	<b>96.9</b>	<b>31848</b>	<b>96.9</b>	<b>31843</b>	<b>96.9</b>	<b>31794</b>	<b>96.7</b>	<b>31689</b>	<b>96.4</b>	<b>31268</b>	<b>95.1</b>	<b>25835</b>	<b>78.6</b>

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

**Table 5.** Vaccine uptake in children reaching their 15th birthday between 01/04/10 and 31/03/11 and resident on 01/05/2011 (with breakdown of MMR1 and MMR2 coverage by sex).

Area	Teenage 3 in 1 booster*						Teenage 3 in 1 booster*						Teenage 3 in 1 booster*					
	Resident children		MMR1		MMR2		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	1515	1357	89.6	1240	81.8	625	41.3	724	636	87.8	580	80.1	788	719	91.2	659	83.6	
Neath Port Talbot LA	1662	1510	90.9	1362	81.9	642	38.6	799	726	90.9	650	81.4	863	784	90.8	712	82.5	
Swansea LA	2624	2398	91.4	2133	81.3	1241	47.3	1270	1185	93.3	1056	83.1	1354	1213	89.6	1077	79.5	
<b>Health Board Total</b>	<b>5801</b>	<b>5265</b>	<b>90.8</b>	<b>4735</b>	<b>81.6</b>	<b>2508</b>	<b>43.2</b>	<b>2793</b>	<b>2547</b>	<b>91.2</b>	<b>2286</b>	<b>81.8</b>	<b>3005</b>	<b>2716</b>	<b>90.4</b>	<b>2448</b>	<b>81.5</b>	
<b>Aneurin Bevan LHB</b>																		
Blaenau Gwent LA	818	764	93.4	703	85.9	269	32.9	415	391	94.2	354	85.3	403	373	92.6	349	86.6	
Caerphilly LA	2058	1851	89.9	1658	80.6	601	29.2	1000	893	89.3	802	80.2	1058	958	90.5	856	80.9	
Monmouthshire LA	1106	884	79.9	770	69.6	473	42.8	497	394	79.3	341	68.6	609	490	80.5	429	70.4	
Newport LA	1941	1708	88.0	1512	77.9	557	28.7	926	819	88.4	722	78.0	1015	889	87.6	790	77.8	
Torfaen LA	1193	1103	92.5	1022	85.7	353	29.6	549	501	91.3	458	83.4	644	602	93.5	564	87.6	
<b>Health Board Total</b>	<b>7116</b>	<b>6310</b>	<b>88.7</b>	<b>5665</b>	<b>79.6</b>	<b>2253</b>	<b>31.7</b>	<b>3387</b>	<b>2998</b>	<b>88.5</b>	<b>2677</b>	<b>79.0</b>	<b>3729</b>	<b>3312</b>	<b>88.8</b>	<b>2988</b>	<b>80.1</b>	
<b>Betsi Cadwaladr University LHB</b>																		
Anglesey LA	768	718	93.5	650	84.6	263	34.2	366	344	94.0	318	86.9	402	374	93.0	332	82.6	
Conwy LA	1174	1109	94.5	1016	86.5	692	58.9	585	553	94.5	513	87.7	588	556	94.6	503	85.5	
Denbighshire LA	1117	1043	93.4	930	83.3	638	57.1	567	533	94.0	488	86.1	549	510	92.9	442	80.5	
Flintshire LA	1775	1694	95.4	1519	85.6	637	35.9	874	849	97.1	760	87.0	901	845	93.8	759	84.2	
Gwynedd LA	1322	1248	94.4	1157	87.5	494	37.4	652	618	94.8	579	88.8	670	630	94.0	578	86.3	
Wrexham LA	1463	1387	94.8	1295	88.5	652	44.6	694	664	95.7	626	90.2	769	723	94.0	669	87.0	
<b>Health Board Total</b>	<b>7619</b>	<b>7199</b>	<b>94.5</b>	<b>6567</b>	<b>86.2</b>	<b>3376</b>	<b>44.3</b>	<b>3738</b>	<b>3561</b>	<b>95.3</b>	<b>3284</b>	<b>87.9</b>	<b>3879</b>	<b>3638</b>	<b>93.8</b>	<b>3283</b>	<b>84.6</b>	
<b>Cardiff and Vale University LHB</b>																		
Cardiff LA	3977	3627	91.2	3307	83.2	2708	68.1	1850	1717	92.8	1586	85.7	2127	1910	89.8	1721	80.9	
Vale of Glamorgan LA	1610	1490	92.5	1379	85.7	1279	79.4	781	733	93.9	684	87.6	829	757	91.3	695	83.8	
<b>Health Board Total</b>	<b>5587</b>	<b>5117</b>	<b>91.6</b>	<b>4686</b>	<b>83.9</b>	<b>3987</b>	<b>71.4</b>	<b>2631</b>	<b>2450</b>	<b>93.1</b>	<b>2270</b>	<b>86.3</b>	<b>2956</b>	<b>2667</b>	<b>90.2</b>	<b>2416</b>	<b>81.7</b>	
<b>Cwm Taf LHB</b>																		
Merthyr Tydfil LA	720	660	91.7	593	82.4	181	25.1	359	326	90.8	294	81.9	361	334	92.5	299	82.8	
Rhondda Cynon Taff LA	2651	2495	94.1	2283	86.1	635	24.0	1285	1209	94.1	1095	85.2	1366	1286	94.1	1188	87.0	
<b>Health Board Total</b>	<b>3371</b>	<b>3155</b>	<b>93.6</b>	<b>2876</b>	<b>85.3</b>	<b>816</b>	<b>24.2</b>	<b>1644</b>	<b>1535</b>	<b>93.4</b>	<b>1389</b>	<b>84.5</b>	<b>1727</b>	<b>1620</b>	<b>93.8</b>	<b>1487</b>	<b>86.1</b>	
<b>Hywel Dda LHB</b>																		
Carmarthenshire LA	2062	1871	90.7	1648	79.9	868	42.1	1029	936	91.0	828	80.5	1033	935	90.5	820	79.4	
Ceredigion LA	722	669	92.7	588	81.4	321	44.5	324	299	92.3	262	80.9	398	370	93.0	326	81.9	
Pembrokeshire LA	1399	1251	89.4	1119	80.0	244	17.4	685	601	87.7	535	78.1	714	650	91.0	584	81.8	
<b>Health Board Total</b>	<b>4183</b>	<b>3791</b>	<b>90.6</b>	<b>3355</b>	<b>80.2</b>	<b>1433</b>	<b>34.3</b>	<b>2038</b>	<b>1836</b>	<b>90.1</b>	<b>1625</b>	<b>79.7</b>	<b>2145</b>	<b>1955</b>	<b>91.1</b>	<b>1730</b>	<b>80.7</b>	
<b>Powys Teaching LHB</b>																		
	<b>1459</b>	<b>1255</b>	<b>86.0</b>	<b>1052</b>	<b>72.1</b>	<b>589</b>	<b>40.4</b>	<b>704</b>	<b>607</b>	<b>86.2</b>	<b>519</b>	<b>73.7</b>	<b>754</b>	<b>647</b>	<b>85.8</b>	<b>532</b>	<b>70.6</b>	
Unknown	363	238	65.6	198	54.5	98	27.0	171	107	62.6	89	52.0	191	131	68.6	109	57.1	
<b>Wales Total</b>	<b>35499</b>	<b>32330</b>	<b>91.1</b>	<b>29134</b>	<b>82.1</b>	<b>15060</b>	<b>42.4</b>	<b>17106</b>	<b>15641</b>	<b>91.4</b>	<b>14139</b>	<b>82.7</b>	<b>18386</b>	<b>16686</b>	<b>90.8</b>	<b>14993</b>	<b>81.5</b>	

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

**Table 6.** Vaccine uptake in children reaching their 16th birthday between 01/04/10 and 31/03/11 and resident on 01/05/2011 (with breakdown of MMR1 and MMR2 coverage by sex).

Area	Teenage 3 in 1 booster*						Resident girls	MMR1 (girls)		MMR2 (girls)		Resident boys	MMR1 (boys)		MMR2 (boys)		
	Resident children	MMR1	MMR2	(n)	(%)	Teenage 3 in 1 booster*		(n)	(%)	(n)	(%)		(n)	(%)	(n)	(%)	
<b>Abertawe Bro Morgannwg University LHB</b>																	
Bridgend LA	1563	1414	90.5	1291	82.6	1144	73.2	764	686	89.8	639	83.6	798	728	91.2	652	81.7
Neath Port Talbot LA	1651	1557	94.3	1408	85.3	1240	75.1	781	736	94.2	672	86.0	870	821	94.4	736	84.6
Swansea LA	2598	2417	93.0	2124	81.8	2021	77.8	1302	1215	93.3	1071	82.3	1296	1202	92.7	1053	81.3
<b>Health Board Total</b>	<b>5812</b>	<b>5388</b>	<b>92.7</b>	<b>4823</b>	<b>83.0</b>	<b>4405</b>	<b>75.8</b>	<b>2847</b>	<b>2637</b>	<b>92.6</b>	<b>2382</b>	<b>83.7</b>	<b>2964</b>	<b>2751</b>	<b>92.8</b>	<b>2441</b>	<b>82.4</b>
<b>Aneurin Bevan LHB</b>																	
Blaenau Gwent LA	856	801	93.6	748	87.4	47	5.5	420	390	92.9	364	86.7	436	411	94.3	384	88.1
Caerphilly LA	2142	1948	90.9	1747	81.6	258	12.0	1067	951	89.1	848	79.5	1075	997	92.7	899	83.6
Monmouthshire LA	1217	1017	83.6	891	73.2	494	40.6	569	476	83.7	417	73.3	648	541	83.5	474	73.1
Newport LA	1955	1736	88.8	1565	80.1	318	16.3	968	847	87.5	775	80.1	985	888	90.2	789	80.1
Torfaen LA	1267	1208	95.3	1123	88.6	172	13.6	643	611	95.0	570	88.6	623	596	95.7	553	88.8
<b>Health Board Total</b>	<b>7437</b>	<b>6710</b>	<b>90.2</b>	<b>6074</b>	<b>81.7</b>	<b>1289</b>	<b>17.3</b>	<b>3667</b>	<b>3275</b>	<b>89.3</b>	<b>2974</b>	<b>81.1</b>	<b>3767</b>	<b>3433</b>	<b>91.1</b>	<b>3099</b>	<b>82.3</b>
<b>Betsi Cadwaladr University LHB</b>																	
Anglesey LA	830	788	94.9	728	87.7	585	70.5	391	372	95.1	345	88.2	439	416	94.8	383	87.2
Conwy LA	1267	1205	95.1	1111	87.7	1012	79.9	612	585	95.6	547	89.4	654	619	94.6	563	86.1
Denbighshire LA	1133	1070	94.4	982	86.7	942	83.1	576	535	92.9	496	86.1	557	535	96.1	486	87.3
Flintshire LA	1825	1761	96.5	1639	89.8	1376	75.4	909	874	96.1	814	89.5	916	887	96.8	825	90.1
Gwynedd LA	1373	1306	95.1	1222	89.0	1002	73.0	705	667	94.6	624	88.5	668	639	95.7	598	89.5
Wrexham LA	1442	1397	96.9	1318	91.4	1142	79.2	672	658	97.9	627	93.3	770	739	96.0	691	89.7
<b>Health Board Total</b>	<b>7870</b>	<b>7527</b>	<b>95.6</b>	<b>7000</b>	<b>88.9</b>	<b>6059</b>	<b>77.0</b>	<b>3865</b>	<b>3691</b>	<b>95.5</b>	<b>3453</b>	<b>89.3</b>	<b>4004</b>	<b>3835</b>	<b>95.8</b>	<b>3546</b>	<b>88.6</b>
<b>Cardiff and Vale University LHB</b>																	
Cardiff LA	3972	3587	90.3	3221	81.1	2817	70.9	1881	1738	92.4	1601	85.1	2090	1849	88.5	1620	77.5
Vale of Glamorgan LA	1616	1502	92.9	1387	85.8	1312	81.2	765	711	92.9	664	86.8	851	791	92.9	723	85.0
<b>Health Board Total</b>	<b>5588</b>	<b>5089</b>	<b>91.1</b>	<b>4608</b>	<b>82.5</b>	<b>4129</b>	<b>73.9</b>	<b>2646</b>	<b>2449</b>	<b>92.6</b>	<b>2265</b>	<b>85.6</b>	<b>2941</b>	<b>2640</b>	<b>89.8</b>	<b>2343</b>	<b>79.7</b>
<b>Cwm Taf LHB</b>																	
Merthyr Tydfil LA	728	675	92.7	620	85.2	579	79.5	349	325	93.1	307	88.0	379	350	92.3	313	82.6
Rhondda Cynon Taff LA	2734	2597	95.0	2409	88.1	2119	77.5	1307	1229	94.0	1137	87.0	1427	1368	95.9	1272	89.1
<b>Health Board Total</b>	<b>3462</b>	<b>3272</b>	<b>94.5</b>	<b>3029</b>	<b>87.5</b>	<b>2698</b>	<b>77.9</b>	<b>1656</b>	<b>1554</b>	<b>93.8</b>	<b>1444</b>	<b>87.2</b>	<b>1806</b>	<b>1718</b>	<b>95.1</b>	<b>1585</b>	<b>87.8</b>
<b>Hywel Dda LHB</b>																	
Carmarthenshire LA	2023	1794	88.7	1587	78.4	1221	60.4	1001	898	89.7	806	80.5	1021	896	87.8	781	76.5
Ceredigion LA	722	667	92.4	596	82.5	555	76.9	341	313	91.8	282	82.7	381	354	92.9	314	82.4
Pembrokeshire LA	1433	1275	89.0	1147	80.0	354	24.7	738	648	87.8	583	79.0	695	627	90.2	564	81.2
<b>Health Board Total</b>	<b>4178</b>	<b>3736</b>	<b>89.4</b>	<b>3330</b>	<b>79.7</b>	<b>2130</b>	<b>51.0</b>	<b>2080</b>	<b>1859</b>	<b>89.4</b>	<b>1671</b>	<b>80.3</b>	<b>2097</b>	<b>1877</b>	<b>89.5</b>	<b>1659</b>	<b>79.1</b>
<b>Powys Teaching LHB</b>																	
Unknown	1502	1328	88.4	1178	78.4	1169	77.8	748	656	87.7	579	77.4	754	672	89.1	599	79.4
<b>Wales Total</b>	<b>36219</b>	<b>33299</b>	<b>91.9</b>	<b>30238</b>	<b>83.5</b>	<b>22031</b>	<b>60.8</b>	<b>17690</b>	<b>16238</b>	<b>91.8</b>	<b>14861</b>	<b>84.0</b>	<b>18520</b>	<b>17058</b>	<b>92.1</b>	<b>15375</b>	<b>83.0</b>

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

**Table 7.** HPV Vaccine uptake in girls reaching their 14th birthday between 01/09/2008 and 31/08/2010 and resident on 01/05/2010 (School Year 8 during 2009-10).

Area	Resident girls	HPV 1 dose (n)	HPV 1 dose (%)	HPV 2 doses (n)	HPV 2 doses (%)	HPV 3 doses (n)	HPV 3 doses (%)
<b><u>Abertawe Bro Morgannwg University LHB</u></b>							
Bridgend LA	840	752	89.5	743	88.5	733	87.3
Neath Port Talbot LA	804	698	86.8	686	85.3	668	83.1
Swansea LA	1274	1096	86.0	1080	84.8	1047	82.2
<b>Health Board Total</b>	<b>2918</b>	<b>2546</b>	<b>87.3</b>	<b>2509</b>	<b>86.0</b>	<b>2448</b>	<b>83.9</b>
<b><u>Aneurin Bevan LHB</u></b>							
Blaenau Gwent LA	397	375	94.5	369	92.9	359	90.4
Caerphilly LA	1068	942	88.2	930	87.1	901	84.4
Monmouthshire LA	572	428	74.8	422	73.8	413	72.2
Newport LA	941	780	82.9	774	82.3	756	80.3
Torfaen LA	613	549	89.6	545	88.9	532	86.8
<b>Health Board Total</b>	<b>3591</b>	<b>3074</b>	<b>85.6</b>	<b>3040</b>	<b>84.7</b>	<b>2961</b>	<b>82.5</b>
<b><u>Betsi Cadwaladr University LHB</u></b>							
Anglesey LA	399	336	84.2	332	83.2	315	78.9
Conwy LA	580	499	86.0	496	85.5	467	80.5
Denbighshire LA	576	472	81.9	469	81.4	436	75.7
Flintshire LA	877	773	88.1	769	87.7	752	85.7
Gwynedd LA	682	559	82.0	556	81.5	540	79.2
Wrexham LA	659	568	86.2	558	84.7	552	83.8
<b>Health Board Total</b>	<b>3773</b>	<b>3207</b>	<b>85.0</b>	<b>3180</b>	<b>84.3</b>	<b>3062</b>	<b>81.2</b>
<b><u>Cardiff and Vale University LHB</u></b>							
Cardiff LA	1782	1536	86.2	1487	83.4	1421	79.7
Vale of Glamorgan LA	820	719	87.7	697	85.0	667	81.3
<b>Health Board Total</b>	<b>2602</b>	<b>2255</b>	<b>86.7</b>	<b>2184</b>	<b>83.9</b>	<b>2088</b>	<b>80.2</b>
<b><u>Cwm Taf LHB</u></b>							
Merthyr Tydfil LA	371	332	89.5	330	88.9	309	83.3
Rhondda Cynon Taff LA	1344	1230	91.5	1220	90.8	1199	89.2
<b>Health Board Total</b>	<b>1715</b>	<b>1562</b>	<b>91.1</b>	<b>1550</b>	<b>90.4</b>	<b>1508</b>	<b>87.9</b>
<b><u>Hywel Dda LHB</u></b>							
Carmarthenshire LA	1004	819	81.6	806	80.3	782	77.9
Ceredigion LA	341	264	77.4	264	77.4	261	76.5
Pembrokeshire LA	673	570	84.7	563	83.7	525	78.0
<b>Health Board Total</b>	<b>2018</b>	<b>1653</b>	<b>81.9</b>	<b>1633</b>	<b>80.9</b>	<b>1568</b>	<b>77.7</b>
<b><u>Powys Teaching LHB</u></b>							
	<b>738</b>	<b>593</b>	<b>80.4</b>	<b>593</b>	<b>80.4</b>	<b>578</b>	<b>78.3</b>
Unknown	152	86	56.6	85	55.9	81	53.3
<b>Wales Total</b>	<b>17555</b>	<b>15006</b>	<b>85.5</b>	<b>14802</b>	<b>84.3</b>	<b>14322</b>	<b>81.6</b>

## **Links**

HPV catch-up for young women born between 1 September 1990 and 31 August 1991:  
<http://wales.gov.uk/topics/health/publications/health/ministerial/hpvvaccination/?lang=en>

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)

Accelerated HPV catch-up for young women born between 1 September 1991 and 31 August 1995 (intranet): <http://howis.wales.nhs.uk/sites3/page.cfm?orgid=474&pid=21255>

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>