

Vaccine Uptake in Children in Wales July to September 2013

COVER 108: Wales December 2013



Key points

- Uptake of all scheduled immunisations in children less than one year of age exceeded the 95% uptake target this quarter. Sixteen Local Authority (LA) areas exceeded the 95% uptake target for all routine immunisations in one year olds.
- Uptake of the first dose of MMR vaccine in two year old children was 98% and ranged by LA from 97% to more than 99%. This is the highest ever uptake of the MMR vaccine in this age group. For the first time, all twenty two LA areas and seven Health Boards achieved the target of 95% uptake.
- This quarter, 87% of children were up to date with all routine immunisations by four years of age.
- Uptake of the second MMR dose by five years of age increased to 93% this quarter.
- Uptake of 4 in 1 pre-school booster in five year old children remained at 93% this quarter.
- Uptake of the first dose of Human Papillomavirus (HPV) vaccine in girls in the 2012-13 School Year 8 was 90%, uptake of the second dose was 88% and uptake of the third dose was 82%.
- Coverage of one dose of MMR vaccine in 16 year olds increased to 96% this quarter and coverage of a completed two dose course was 89%.

These results are for children living in Wales in September 2013 and reaching their first, second, fourth, fifth, 15th and 16th birthdays during the quarter 01/07/2013 to 30/09/2013. Uptake of HPV vaccination¹ in girls in the 2012-13 School Year 8 (reaching their 13th birthday between 01/09/2012 and 31/08/2013) is presented, along with coverage in the previous year's School Year 8 group. BCG and hepatitis B immunisation uptake data are also presented here. BCG and hepatitis B immunisations are not part of the routine childhood schedule and are given selectively following risk assessment; further information on circumstances in which these immunisations should be given can be found in: Immunisation Against Infectious Disease (The Green Book, available from <http://immunisation.dh.gov.uk/category/the-green-book/>).

Findings

1. Uptake of all three doses of the combined "5 in 1" DTaP/IPV/Hib² vaccine, scheduled at 2, 3 and 4 months of age, in children reaching their first birthday this quarter remained at 96.7% as reported last quarter. Uptake ranged by Health Board from 94.8% to 97.5% and by Local Authority (LA) from 94.5% (Pembrokeshire) to 98.3% (Bridgend). Eighteen of the 22 LA areas achieved the target 95% uptake (Figure 3 and Tables 1, 2).
2. National uptake of a completed two dose course of MenC³ vaccine in children reaching their first birthday this quarter was 95.9% (compared to 96.4% last quarter). Uptake in Health Boards ranged from 93.9% to 96.6% and ranged by LA from 92.5%

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

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

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

(Denbighshire) to 98.2% (Torfaen and Wrexham). Sixteen LA areas achieved an uptake in excess of the 95% target (Tables 1, 2).

3. Uptake of a complete two dose primary course of pneumococcal conjugate vaccination (PCV2²) in children reaching their first birthday was 96.4% this quarter (compared to 96.2% last quarter), ranging by LA from 93.7% (Cardiff) to 98.5% (Blaenau Gwent). Seventeen LA areas achieved the target 95% uptake (Table 2).
4. Uptake of the first dose of MMR³ in children reaching their second birthday (scheduled at 12 to 13 months of age) was 98.4% this quarter (compared to 95.9% last quarter) and ranged by LA from 95.8% (Monmouthshire) to 99.6% (Torfaen) (Figure 4 and Tables 1, 3). All five Health Boards and all twenty two LA areas achieved the target of 95% uptake for the first time.
5. Uptake of the final dose of Pneumococcal Conjugate Vaccine (PCVf, scheduled at 12 to 13 months of age) by the second birthday remained stable at 96.5%. Uptake by LA ranged from 94.4% (Cardiff) to 99.0% (Blaenau Gwent) (Tables 1, 3). Twenty LA areas achieved an uptake in excess of 95%.
6. Uptake of the Hib/MenC booster (given at 12 months of age) in children reaching two years of age was 95.8% during this quarter (compared to 94.9% last quarter), ranging by LA from 93.3% (Cardiff) to 97.9% (Blaenau Gwent) (Tables 1, 3). Eighteen LA areas achieved uptakes in excess of 95%.
7. In children reaching four years of age this quarter, coverage of the 4 in 1 preschool booster was 92.0%, coverage of a complete course of pneumococcal conjugate vaccine was 93.1%, coverage of the Hib/MenC booster was 94.4% and uptake of two doses of MMR was 91.8%. The proportion of children who were up to date with all their routine immunisations at four years of age increased from 85.7% last quarter to 87.2% this quarter (Table 4). This ranged by HB from 86.0% (Cardiff and Vale University HB) to 89.7% (Cwm Taf HB) and by LA from 82.0% (Newport) to 90.6% (Vale of Glamorgan).
8. In children reaching five years of age this quarter, uptake of one dose of MMR increased to 98.3% (from 96.9% last quarter). Uptake of two doses of MMR increased to 92.7%, compared to 92.2% last quarter. Uptake of two doses of MMR ranged by Health Board from 90.8% (Hywel Dda HB) to 94.5% (Cwm Taf HB) and by LA from 87.1% (Pembrokeshire) to 96.3% (Wrexham) (Figure 5, Table 5). Four LA areas exceeded 95% uptake for two doses of MMR by five years of age and fifteen LA areas exceeded 90%.
9. Uptake of the "4 in 1" DTaP/IPV⁴ pre-school booster in children reaching their fifth birthday increased to 93.1% this quarter (from 92.7% last quarter), ranging by Health Board from 91.8% (Powys Teaching HB) to 95.1% (Cwm Taf HB) and by LA from 88.7% (Newport) to 96.5% (Wrexham) (Tables 1, 4). Five LA areas achieved the 95% uptake target and sixteen LA areas had uptakes in excess of 90% (Figure 6, Table 5).
10. Coverage of a two dose primary course of MenC in children reaching their fifth birthday this quarter decreased to 94.2% this quarter compared to 95.0% last quarter. Coverage ranged by Health Board from 82.7% (Powys Teaching HB) to 97.3% (Cwm Taf HB) and by LA from 82.7% (Powys) to 98.1% (Bridgend).
11. Uptake of the first dose of HPV vaccine in girls in the 2012-13 School Year 8 was 89.5% (Table 6), uptake of two doses was 88.0% and uptake of three doses was 82.0%. Coverage of HPV vaccination in 2011-12 School Year 8 group was at 89.7%, 88.9% and 87.2% for one, two and three doses respectively (Table 6).
12. Coverage of two doses of MMR in children reaching 16 years of age this quarter was 88.5% (compared to 87.0% last quarter), ranging by LA from 79.2% (Monmouthshire) to 93.8% (Bridgend) (Table 8). Uptake of one dose of MMR was 96.3% (compared to 94.2% last quarter), ranging by LA from 88.7% (Monmouthshire) to 98.8% (Gwynedd). Uptake of a full course (two doses of MMR) of immunisation against rubella in 16 year old girls this quarter was 88.7% and uptake of only one dose was 96.2%.

13. National uptake of the Td/IPV⁵ teenage booster in children reaching 16 years of age this quarter was 79.7% (Table 8), ranging by LA from 47.8% (Pembrokeshire) to 87.3% (Flintshire).
14. Coverage of a complete three dose course of HPV vaccine in girls reaching their 15th birthday during 01/09/12 to 31/08/13 (the 2012-13 year 10) is currently 86.8%. Coverage of a complete three dose course of HPV vaccine in girls reaching their 16th birthday during 01/09/12 to 31/08/13 (2012-13 year 11) is currently 84.1%. Coverage of a complete three dose course of HPV vaccine in girls reaching their 17th birthday during 01/09/12 to 31/08/13 (2012-13 year 12) is currently 87.2% (Table 9).
15. Uptake of BCG⁶ immunisation is presented in Table 10. These data are based on notifications of BCG immunisations recorded in the National Community Child Health Database. BCG immunisation has been received by 6.5%, 7.1%, 6.7% and 2.8% of children reaching their first, second, fifth and 16th birthdays (respectively) during quarter three 2013. Highest proportions of children given BCG by one and two years of age this quarter were seen in Cardiff, Newport, Swansea and Merthyr Tydfil LA's⁷.
16. Uptake of hepatitis B immunisation, recorded through the Child Health System is presented in Table 11. These data are based on reports of hep B immunisations recorded in the National Community Child Health database. Completed vaccination course percentages are only presented for children receiving the first dose of hepatitis B vaccine within seven days of birth. Forty nine, 70 and 89 children reaching their 1st, 2nd and 5th birthdays during quarter three 2013, respectively, started hepatitis B immunisation courses in their first week of life. Of these children 67.3%, 74.3% and 73.0% (respectively) were recorded as having completed three doses of the hepatitis B schedule by those birthdays.

³ MMR protects against measles, mumps and rubella infections.

⁴ DTaP/IPV (and dTaP/IPV) vaccines boost protection against Diphtheria, Tetanus, Pertussis and Polio infection before school entry

⁵ Td/IPV boosts protection against Diphtheria, Tetanus and Polio infection before entering adulthood

⁶ BCG protects against tuberculosis infection.

⁷ Numbers of eligible children for BCG and Hep B are not known

Comment

For the third consecutive quarter, uptake of the first dose of MMR in children reaching their second birthday exceeded 95%. This quarter however, for the first time, uptake of the first MMR vaccine in children reaching two years of age has exceeded 95% in all health boards and local authority areas. Children in this age-group would have been scheduled to receive their first dose of MMR vaccine in the months prior to the large outbreak of measles which affected Wales from November 2012 to July 2013. Coverage of one dose of MMR vaccine in five year olds and in 16 year olds has also exceeded 95% nationally.

The substantial improvement in coverage of at least one dose of MMR vaccine in children and teenagers in Wales this quarter, is a considerable achievement and reflects the efforts invested by Health Boards and GPs to increase MMR uptake in light of the measles outbreak. The improvement in coverage is also likely to reflect an increased awareness in parents of the risks associated with measles. Coverage of a completed two dose course of MMR vaccination, although also substantially improved, remains below 95%; and this emphasises the importance of ensuring that those who have only received one MMR dose are followed up and offered a second dose, to ensure high levels of protection against measles, mumps and rubella¹.

Uptake of all routine immunisations scheduled for babies in their first year of life continued to exceed 95% this quarter. The proportion of children who were up to date with their routine immunisations by four years of age also increased nationally.

[1] Guidance on the follow up of children who have missed out on MMR vaccination (*NHS Wales only*): <http://howis.wales.nhs.uk/sites3/page.cfm?orgId=474&pid=21347>
<http://www.publichealthwales.org/measles-outbreak-data>

Further information on MMR and measles

For general information on measles in Wales, see: <http://www.wales.nhs.uk/sitesplus/888/page/43749>

For general information on MMR and other vaccinations, see:

<http://www.nhs.uk/Conditions/vaccinations/Pages/vaccination-schedule-age-checklist.aspx>

For information about the measles outbreak in Wales, see:

<http://www.wales.nhs.uk/sitesplus/888/page/66425>

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

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

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Figure 1. Percentage uptake of childhood immunisations in Wales, quarter 1 1997 to quarter 3 2013. Data are for children reaching 1 year of age each quarter for diphtheria, pertussis, Hib, MenC and pneumococcal conjugate vaccine (PCV2), children reaching 2 years of age for MMR1 (first dose) and the Hib MenC booster, and 5 years of age for MMR2 (second dose).

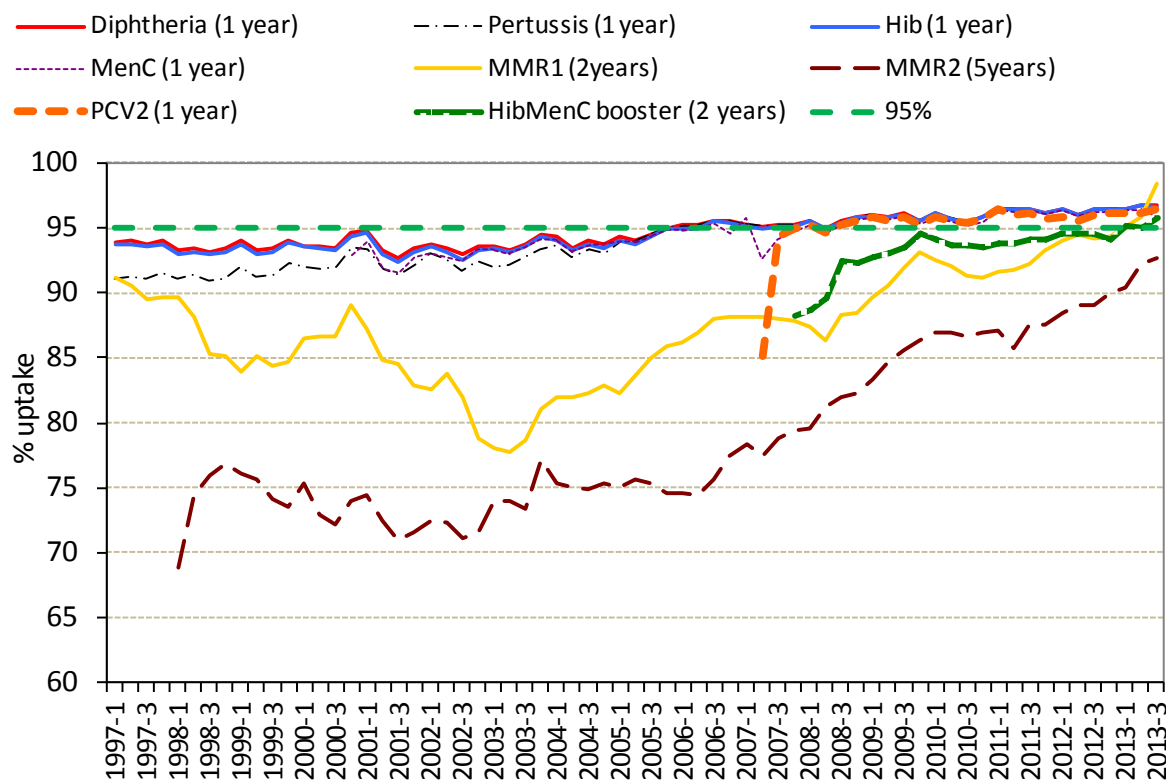


Figure 2. Summary of uptake rates for selected immunisations in resident children reaching their 1st, 2nd, 5th and 16th birthday between 01/07/13 and 30/09/13 and resident on 30/09/13.

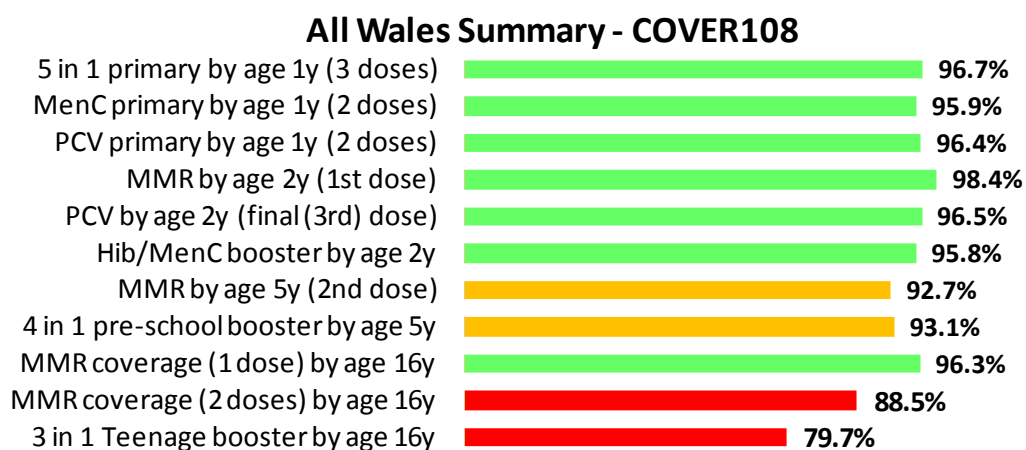


Figure 3. Uptake of 5 in 1 vaccine in Welsh Local Authority areas in children reaching their 1st birthday between 01/07/13 and 30/09/13.

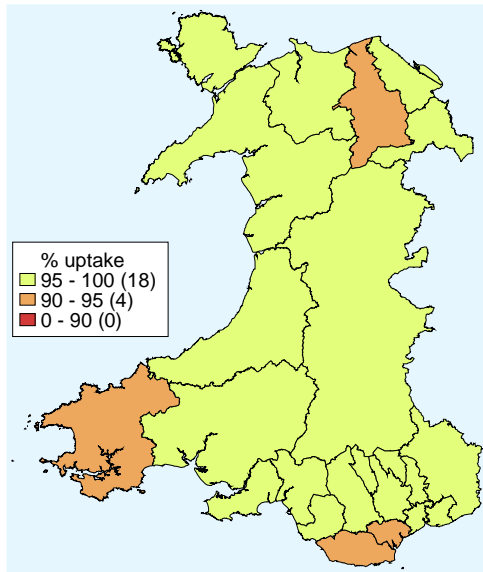


Figure 4. Uptake of at least 1 dose of MMR immunisation in Welsh Local Authority areas in children reaching their 2nd birthday between 01/07/13 and 30/09/13.

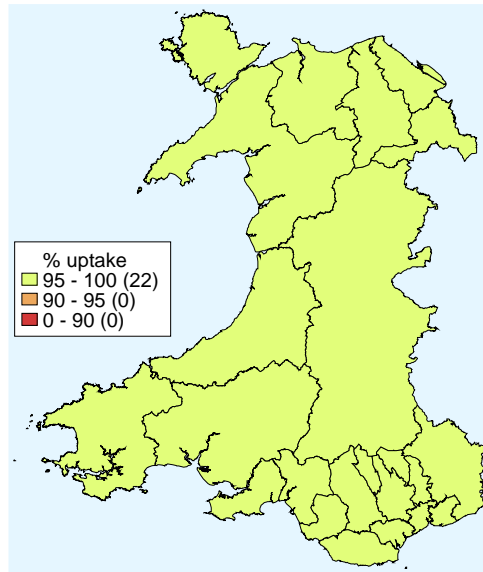


Figure 5. Uptake of two doses of MMR vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/07/13 and 30/09/13.

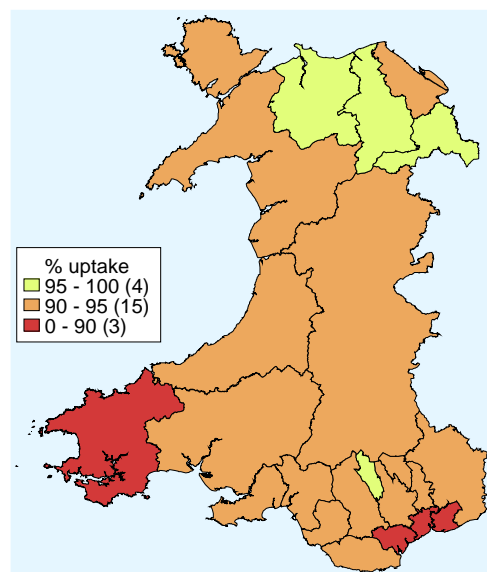


Figure 6. Uptake of 4 in 1 vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/07/13 and 30/09/13.

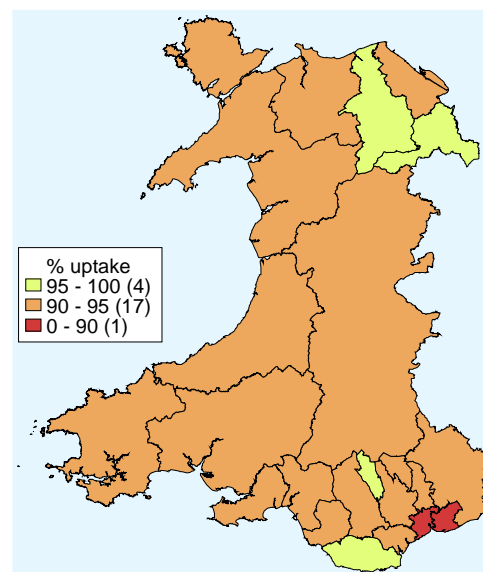


Table 1. Summary table with uptake of selected immunisations in resident children reaching their 1st, 2nd, 5th and 16th birthday between 01/07/13 and 30/09/13 and resident on 30/09/13.

Area	Age 1 year				Age 2 years					Age 5 years				Age 16 years										
	Resident children (n)	5 in 1*		MenC		Resident children (n)	MMR1		PCV†		Hib/MenC booster		Resident children (n)	MMR2		4 in 1*		Resident children (n)	MMR1		MMR2		3 in 1 Teenage booster**	
	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(%)
Abertawe Bro Morgannwg University LHB																								
Bridgend LA	400	393	98.3	390	97.5	422	414	98.1	410	97.2	409	96.9	432	406	94.0	405	93.8	404	396	98.0	379	93.8	334	82.7
Neath Port Talbot LA	371	360	97.0	357	96.2	372	367	98.7	359	96.5	358	96.2	387	356	92.0	354	91.5	380	369	97.1	332	87.4	302	79.5
Swansea LA	714	695	97.3	687	96.2	724	715	98.8	702	97.0	700	96.7	649	601	92.6	603	92.9	682	668	97.9	595	87.2	578	84.8
Health Board Total	1485	1448	97.5	1434	96.6	1518	1496	98.6	1471	96.9	1467	96.6	1468	1363	92.8	1362	92.8	1466	1433	97.7	1306	89.1	1214	82.8
Aneurin Bevan LHB																								
Blaenau Gwent LA	195	191	97.9	188	96.4	195	194	99.5	193	99.0	191	97.9	197	182	92.4	180	91.4	205	200	97.6	180	87.8	162	79.0
Caerphilly LA	536	525	97.9	521	97.2	544	540	99.3	527	96.9	525	96.5	551	520	94.4	513	93.1	468	452	96.6	425	90.8	361	77.1
Monmouthshire LA	220	209	95.0	208	94.5	214	205	95.8	204	95.3	202	94.4	249	235	94.4	235	94.4	274	243	88.7	217	79.2	193	70.4
Newport LA	465	453	97.4	446	95.9	462	452	97.8	438	94.8	433	93.7	522	469	89.8	463	88.7	539	521	96.7	470	87.2	413	76.6
Torfaen LA	279	274	98.2	274	98.2	247	246	99.6	238	96.4	237	96.0	281	266	94.7	264	94.0	304	293	96.4	279	91.8	245	80.6
Health Board Total	1695	1652	97.5	1637	96.6	1662	1637	98.5	1600	96.3	1588	95.5	1800	1672	92.9	1655	91.9	1790	1709	95.5	1571	87.8	1374	76.8
Betsi Cadwaladr University LHB																								
Anglesey LA	206	200	97.1	198	96.1	199	198	99.5	195	98.0	193	97.0	205	192	93.7	194	94.6	201	196	97.5	185	92.0	175	87.1
Conwy LA	296	289	97.6	285	96.3	280	278	99.3	271	96.8	268	95.7	327	312	95.4	310	94.8	296	292	98.6	274	92.6	250	84.5
Denbighshire LA	253	240	94.9	234	92.5	250	246	98.4	244	97.6	242	96.8	264	251	95.1	253	95.8	299	290	97.0	271	90.6	249	83.3
Flintshire LA	446	433	97.1	432	96.9	411	405	98.5	400	97.3	400	97.3	443	410	92.6	418	94.4	409	403	98.5	378	92.4	357	87.3
Gwynedd LA	341	330	96.8	328	96.2	357	348	97.5	344	96.4	342	95.8	327	296	90.5	300	91.7	346	342	98.8	322	93.1	298	86.1
Wrexham LA	450	442	98.2	442	98.2	449	441	98.2	436	97.1	431	96.0	484	466	96.3	467	96.5	388	380	97.9	360	92.8	313	80.7
Health Board Total	1992	1934	97.1	1919	96.3	1946	1916	98.5	1890	97.1	1876	96.4	2050	1927	94.0	1942	94.7	1939	1903	98.1	1790	92.3	1642	84.7
Cardiff and Vale University LHB																								
Cardiff LA	1135	1077	94.9	1063	93.7	1163	1135	97.6	1098	94.4	1085	93.3	1149	1032	89.8	1043	90.8	987	926	93.8	842	85.3	768	77.8
Vale of Glamorgan LA	335	317	94.6	318	94.9	374	372	99.5	364	97.3	362	96.8	393	371	94.4	377	95.9	442	419	94.8	397	89.8	365	82.6
Health Board Total	1470	1394	94.8	1381	93.9	1537	1507	98.0	1462	95.1	1447	94.1	1542	1403	91.0	1420	92.1	1429	1345	94.1	1239	86.7	1133	79.3
Cwm Taf LHB																								
Merthyr Tydfil LA	200	190	95.0	190	95.0	197	193	98.0	193	98.0	192	97.5	195	187	95.9	186	95.4	161	154	95.7	141	87.6	121	75.2
Rhondda Cynon Taff LA	729	707	97.0	704	96.6	733	724	98.8	710	96.9	708	96.6	743	699	94.1	706	95.0	702	685	97.6	624	88.9	595	84.8
Health Board Total	929	897	96.6	894	96.2	930	917	98.6	903	97.1	900	96.8	938	886	94.5	892	95.1	863	839	97.2	765	88.6	716	83.0
Hywel Dda LHB																								
Carmarthenshire LA	486	474	97.5	468	96.3	484	481	99.4	469	96.9	465	96.1	477	441	92.5	445	93.3	519	497	95.8	446	85.9	414	79.8
Ceredigion LA	171	167	97.7	166	97.1	162	159	98.1	158	97.5	156	96.3	166	155	93.4	153	92.2	206	201	97.6	186	90.3	179	86.9
Pembrokeshire LA	327	309	94.5	308	94.2	336	326	97.0	323	96.1	318	94.6	318	277	87.1	289	90.9	358	340	95.0	308	86.0	171	47.8
Health Board Total	984	950	96.5	942	95.7	982	966	98.4	950	96.7	939	95.6	961	873	90.8	887	92.3	1083	1038	95.8	940	86.8	764	70.5
Powys Teaching LHB	326	311	95.4	306	93.9	315	308	97.8	302	95.9	300	95.2	352	321	91.2	323	91.8	413	392	94.9	350	84.7	327	79.2
Unknown	22	21	95.5	21	95.5	26	25	96.2	25	96.2	25	96.2	33	32	97.0	32	97.0	61	50	82.0	45	73.8	40	65.6
Wales Total	8903	8607	96.7	8534	95.9	8916	8772	98.4	8603	96.5	8542	95.8	9144	8477	92.7	8513	93.1	9044	8709	96.3	8006	88.5	7210	79.7

* Uptake of pertussis used as proxy

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

‡ Children receiving the final dose of PCV

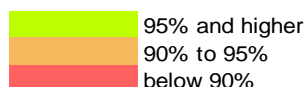


Table 2. Vaccine uptake in children reaching their 1st birthday between 01/07/13 and 30/09/13 and resident on 30/09/13.

Area	Resident children	D3	T3	P3	Po3	Hib3	MMR1	MenC	PCV2*	HibMenCb
	(n)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)
<u>Abertawe Bro Morgannwg University HB</u>										
Bridgend LA	400	393 98.3	393 98.3	393 98.3	393 98.3	393 98.3	333 83.3	390 97.5	393 98.3	1 0.3
Neath Port Talbot LA	371	360 97.0	360 97.0	360 97.0	360 97.0	360 97.0	324 87.3	357 96.2	360 97.0	2 0.5
Swansea LA	714	695 97.3	695 97.3	695 97.3	695 97.3	694 97.2	638 89.4	687 96.2	692 96.9	0 0.0
Health Board Total	1485	1448 97.5	1448 97.5	1448 97.5	1448 97.5	1447 97.4	1295 87.2	1434 96.6	1445 97.3	3 0.2
<u>Aneurin Bevan HB</u>										
Blaenau Gwent LA	195	191 97.9	191 97.9	191 97.9	191 97.9	191 97.9	27 13.8	188 96.4	192 98.5	1 0.5
Caerphilly LA	536	525 97.9	525 97.9	525 97.9	525 97.9	525 97.9	119 22.2	521 97.2	525 97.9	0 0.0
Monmouthshire LA	220	209 95.0	209 95.0	209 95.0	209 95.0	209 95.0	68 30.9	208 94.5	209 95.0	0 0.0
Newport LA	465	453 97.4	453 97.4	453 97.4	453 97.4	453 97.4	130 28.0	446 95.9	449 96.6	2 0.4
Torfaen LA	279	274 98.2	274 98.2	274 98.2	274 98.2	274 98.2	53 19.0	274 98.2	274 98.2	0 0.0
Health Board Total	1695	1652 97.5	1652 97.5	1652 97.5	1652 97.5	1652 97.5	397 23.4	1637 96.6	1649 97.3	3 0.2
<u>Betsi Cadwaladr University HB</u>										
Anglesey LA	206	200 97.1	200 97.1	200 97.1	200 97.1	200 97.1	34 16.5	198 96.1	200 97.1	0 0.0
Conwy LA	296	289 97.6	289 97.6	289 97.6	289 97.6	289 97.6	93 31.4	285 96.3	291 98.3	4 1.4
Denbighshire LA	253	240 94.9	240 94.9	240 94.9	240 94.9	240 94.9	94 37.2	234 92.5	240 94.9	2 0.8
Flintshire LA	446	433 97.1	433 97.1	433 97.1	433 97.1	433 97.1	125 28.0	432 96.9	434 97.3	5 1.1
Gwynedd LA	341	330 96.8	330 96.8	330 96.8	330 96.8	330 96.8	94 27.6	328 96.2	328 96.2	2 0.6
Wrexham LA	450	442 98.2	442 98.2	442 98.2	442 98.2	442 98.2	98 21.8	442 98.2	443 98.4	1 0.2
Health Board Total	1992	1934 97.1	1934 97.1	1934 97.1	1934 97.1	1934 97.1	538 27.0	1919 96.3	1936 97.2	14 0.7
<u>Cardiff and Vale University HB</u>										
Cardiff LA	1135	1077 94.9	1077 94.9	1077 94.9	1077 94.9	1077 94.9	463 40.8	1063 93.7	1064 93.7	5 0.4
Vale of Glamorgan LA	335	317 94.6	317 94.6	317 94.6	317 94.6	317 94.6	138 41.2	318 94.9	318 94.9	0 0.0
Health Board Total	1470	1394 94.8	1394 94.8	1394 94.8	1394 94.8	1394 94.8	601 40.9	1381 93.9	1382 94.0	5 0.3
<u>Cwm Taf HB</u>										
Merthyr Tydfil LA	200	190 95.0	190 95.0	190 95.0	190 95.0	190 95.0	54 27.0	190 95.0	190 95.0	1 0.5
Rhondda Cynon Taff LA	729	707 97.0	707 97.0	707 97.0	707 97.0	707 97.0	218 29.9	704 96.6	704 96.6	3 0.4
Health Board Total	929	897 96.6	897 96.6	897 96.6	897 96.6	897 96.6	272 29.3	894 96.2	894 96.2	4 0.4
<u>Hywel Dda HB</u>										
Carmarthenshire LA	486	474 97.5	474 97.5	474 97.5	474 97.5	474 97.5	320 65.8	468 96.3	472 97.1	0 0.0
Ceredigion LA	171	167 97.7	167 97.7	167 97.7	167 97.7	166 97.1	44 25.7	166 97.1	167 97.7	0 0.0
Pembrokeshire LA	327	309 94.5	309 94.5	309 94.5	309 94.5	309 94.5	60 18.3	308 94.2	309 94.5	0 0.0
Health Board Total	984	950 96.5	950 96.5	950 96.5	950 96.5	949 96.4	424 43.1	942 95.7	948 96.3	0 0.0
<u>Powys Teaching HB</u>	326	311 95.4	311 95.4	311 95.4	311 95.4	311 95.4	155 47.5	306 93.9	309 94.8	1 0.3
Unknown	22	21 95.5	21 95.5	21 95.5	21 95.5	21 95.5	7 31.8	21 95.5	21 95.5	1 4.5
Wales Total	8903	8607 96.7	8607 96.7	8607 96.7	8607 96.7	8605 96.7	3689 41.4	8534 95.9	8584 96.4	31 0.3

* Full primary 2 dose course of pneumococcal conjugate vaccine

Table 3. Vaccine uptake in children reaching their 2nd birthday between 01/07/13 and 30/09/13 and resident on 30/09/13.

Area	Resident children	D3	T3	P3	Po3	Hib3	MMR1	MenC*	PCV2**	PCVf***	HibMenCb
	(n)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)
Abertawe Bro Morgannwg University HB											
Bridgend LA	422	413 97.9	413 97.9	413 97.9	412 97.6	413 97.9	414 98.1	407 96.4	407 96.4	410 97.2	409 96.9
Neath Port Talbot LA	372	367 98.7	367 98.7	367 98.7	367 98.7	367 98.7	367 98.7	365 98.1	363 97.6	359 96.5	358 96.2
Swansea LA	724	714 98.6	714 98.6	714 98.6	714 98.6	714 98.6	715 98.8	705 97.4	696 96.1	702 97.0	700 96.7
Health Board Total	1518	1494 98.4	1494 98.4	1494 98.4	1493 98.4	1494 98.4	1496 98.6	1477 97.3	1466 96.6	1471 96.9	1467 96.6
Aneurin Bevan HB											
Blaenau Gwent LA	195	193 99.0	193 99.0	193 99.0	193 99.0	193 99.0	194 99.5	192 98.5	192 98.5	193 99.0	191 97.9
Caerphilly LA	544	538 98.9	538 98.9	538 98.9	538 98.9	538 98.9	537 98.7	540 99.3	525 96.5	527 96.9	525 96.5
Monmouthshire LA	214	203 94.9	203 94.9	203 94.9	203 94.9	203 94.9	205 95.8	201 93.9	202 94.4	204 95.3	202 94.4
Newport LA	462	443 95.9	443 95.9	443 95.9	441 95.5	438 94.8	452 97.8	435 94.2	429 92.9	438 94.8	433 93.7
Torfaen LA	247	245 99.2	245 99.2	245 99.2	245 99.2	245 99.2	246 99.6	243 98.4	241 97.6	238 96.4	237 96.0
Health Board Total	1662	1622 97.6	1622 97.6	1622 97.6	1620 97.5	1616 97.2	1637 98.5	1602 96.4	1589 95.6	1600 96.3	1588 95.5
Betsi Cadwaladr University HB											
Anglesey LA	199	198 99.5	198 99.5	198 99.5	198 99.5	198 99.5	198 99.5	195 98.0	195 98.0	195 98.0	193 97.0
Conwy LA	280	277 98.9	277 98.9	277 98.9	277 98.9	277 98.9	278 99.3	274 97.9	272 97.1	271 96.8	268 95.7
Denbighshire LA	250	244 97.6	244 97.6	244 97.6	244 97.6	244 97.6	246 98.4	243 97.2	238 95.2	244 97.6	242 96.8
Flintshire LA	411	405 98.5	405 98.5	405 98.5	405 98.5	405 98.5	405 98.5	403 98.1	399 97.1	400 97.3	400 97.3
Gwynedd LA	357	342 95.8	342 95.8	342 95.8	342 95.8	342 95.8	348 97.5	331 92.7	335 93.8	344 96.4	342 95.8
Wrexham LA	449	440 98.0	440 98.0	440 98.0	439 97.8	440 98.0	441 98.2	437 97.3	431 96.0	436 97.1	431 96.0
Health Board Total	1946	1906 97.9	1906 97.9	1906 97.9	1905 97.9	1906 97.9	1916 98.5	1883 96.8	1870 96.1	1890 97.1	1876 96.4
Cardiff and Vale University HB											
Cardiff LA	1163	1130 97.2	1130 97.2	1130 97.2	1131 97.2	1126 96.8	1135 97.6	1091 93.8	1075 92.4	1098 94.4	1085 93.3
Vale of Glamorgan LA	374	368 98.4	368 98.4	368 98.4	368 98.4	368 98.4	372 99.5	363 97.1	357 95.5	364 97.3	362 96.8
Health Board Total	1537	1498 97.5	1498 97.5	1498 97.5	1499 97.5	1494 97.2	1507 98.0	1454 94.6	1432 93.2	1462 95.1	1447 94.1
Cwm Taf HB											
Merthyr Tydfil LA	197	192 97.5	192 97.5	192 97.5	192 97.5	192 97.5	193 98.0	192 97.5	192 97.5	193 98.0	192 97.5
Rhondda Cynon Taff LA	733	723 98.6	723 98.6	723 98.6	723 98.6	723 98.6	724 98.8	720 98.2	716 97.7	710 96.9	708 96.6
Health Board Total	930	915 98.4	915 98.4	915 98.4	915 98.4	915 98.4	917 98.6	912 98.1	908 97.6	903 97.1	900 96.8
Hywel Dda HB											
Carmarthenshire LA	484	475 98.1	475 98.1	475 98.1	475 98.1	474 97.9	481 99.4	466 96.3	461 95.2	469 96.9	465 96.1
Ceredigion LA	162	158 97.5	158 97.5	158 97.5	158 97.5	158 97.5	159 98.1	153 94.4	156 96.3	158 97.5	156 96.3
Pembrokeshire LA	336	327 97.3	327 97.3	327 97.3	327 97.3	327 97.3	326 97.0	320 95.2	320 95.2	323 96.1	318 94.6
Health Board Total	982	960 97.8	960 97.8	960 97.8	960 97.8	959 97.7	966 98.4	939 95.6	937 95.4	950 96.7	939 95.6
Powys Teaching HB											
Unknown	26	25 96.2	25 96.2	25 96.2	25 96.2	25 96.2	25 96.2	25 96.2	24 92.3	25 96.2	25 96.2
Wales Total	8916	8728 97.9	8728 97.9	8728 97.9	8725 97.9	8717 97.8	8772 98.4	8596 96.4	8527 95.6	8603 96.5	8542 95.8

* 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 4th birthday between 01/07/13 and 30/09/13 and resident on 30/09/13.

Area	Resident children	4 in 1 Preschool Booster*	PCVf**	HibMenCb	MMR dose 2	Up to date in schedule***					
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)		
Abertawe Bro Morgannwg University HB											
Bridgend LA	395	357	90.4	373	94.4	383	97.0	368	93.2	342	86.6
Neath Port Talbot LA	407	373	91.6	382	93.9	389	95.6	378	92.9	357	87.7
Swansea LA	650	607	93.4	603	92.8	611	94.0	613	94.3	569	87.5
Health Board Total	1452	1337	92.1	1358	93.5	1383	95.2	1359	93.6	1268	87.3
Aneurin Bevan HB											
Blaenau Gwent LA	188	179	95.2	179	95.2	180	95.7	177	94.1	169	89.9
Caerphilly LA	548	508	92.7	512	93.4	517	94.3	507	92.5	484	88.3
Monmouthshire LA	208	194	93.3	190	91.3	194	93.3	192	92.3	182	87.5
Newport LA	511	452	88.5	458	89.6	472	92.4	457	89.4	419	82.0
Torfaen LA	273	255	93.4	258	94.5	262	96.0	254	93.0	242	88.6
Health Board Total	1728	1588	91.9	1597	92.4	1625	94.0	1587	91.8	1496	86.6
Betsi Cadwaladr University HB											
Anglesey LA	173	160	92.5	164	94.8	170	98.3	161	93.1	153	88.4
Conwy LA	300	273	91.0	276	92.0	285	95.0	272	90.7	257	85.7
Denbighshire LA	252	234	92.9	239	94.8	241	95.6	232	92.1	227	90.1
Flintshire LA	465	434	93.3	438	94.2	440	94.6	426	91.6	413	88.8
Gwynedd LA	335	304	90.7	311	92.8	311	92.8	303	90.4	292	87.2
Wrexham LA	468	434	92.7	439	93.8	442	94.4	432	92.3	414	88.5
Health Board Total	1993	1839	92.3	1867	93.7	1889	94.8	1826	91.6	1756	88.1
Cardiff and Vale University HB											
Cardiff LA	1119	1010	90.3	1024	91.5	1039	92.9	1003	89.6	944	84.4
Vale of Glamorgan LA	392	366	93.4	375	95.7	379	96.7	366	93.4	355	90.6
Health Board Total	1511	1376	91.1	1399	92.6	1418	93.8	1369	90.6	1299	86.0
Cwm Taf HB											
Merthyr Tydfil LA	179	168	93.9	169	94.4	174	97.2	164	91.6	162	90.5
Rhondda Cynon Taff LA	664	622	93.7	631	95.0	629	94.7	617	92.9	594	89.5
Health Board Total	843	790	93.7	800	94.9	803	95.3	781	92.6	756	89.7
Hywel Dda HB											
Carmarthenshire LA	514	468	91.1	480	93.4	482	93.8	472	91.8	444	86.4
Ceredigion LA	157	148	94.3	143	91.1	144	91.7	147	93.6	140	89.2
Pembrokeshire LA	314	286	91.1	281	89.5	292	93.0	283	90.1	265	84.4
Health Board Total	985	902	91.6	904	91.8	918	93.2	902	91.6	849	86.2
Powys Teaching HB	345	313	90.7	320	92.8	324	93.9	307	89.0	298	86.4
Unknown	22	22	100.0	21	95.5	21	95.5	22	100.0	21	95.5
Wales Total	8879	8167	92.0	8266	93.1	8381	94.4	8153	91.8	7743	87.2

* Uptake of acellular pertussis used as proxy

** Full primary 2 dose course of pneumococcal conjugate vaccine

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

Table 5. Vaccine uptake in children reaching their 5th birthday between 01/07/13 and 30/09/13 and resident on 30/09/13.

Area	Resident children	D3	T3	P3	Po3	Hib3	MenC*	PCVf**	HibMenCb	MMR1	MMR2	D4	T4	aP	Po4
	(n)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)
Abertawe Bro Morgannwg University HB															
Bridgend LA	432	429 99.3	429 99.3	429 99.3	429 99.3	429 99.3	424 98.1	399 92.4	415 96.1	430 99.5	406 94.0	405 93.8	405 93.8	405 93.8	405 93.8
Neath Port Talbot LA	387	372 96.1	372 96.1	372 96.1	372 96.1	372 96.1	362 93.5	345 89.1	362 93.5	381 98.4	356 92.0	354 91.5	354 91.5	354 91.5	354 91.5
Swansea LA	649	631 97.2	631 97.2	631 97.2	629 96.9	625 96.3	603 92.9	598 92.1	613 94.5	639 98.5	601 92.6	603 92.9	603 92.9	603 92.9	603 92.9
Health Board Total	1468	1432 97.5	1432 97.5	1432 97.5	1430 97.4	1426 97.1	1389 94.6	1342 91.4	1390 94.7	1450 98.8	1363 92.8	1362 92.8	1362 92.8	1362 92.8	1362 92.8
Aneurin Bevan HB															
Blaenau Gwent LA	197	194 98.5	194 98.5	194 98.5	194 98.5	194 98.5	193 98.0	183 92.9	188 95.4	194 98.5	182 92.4	180 91.4	180 91.4	180 91.4	180 91.4
Caerphilly LA	551	544 98.7	544 98.7	544 98.7	544 98.7	544 98.7	536 97.3	510 92.6	527 95.6	546 99.1	520 94.4	513 93.1	513 93.1	513 93.1	513 93.1
Monmouthshire LA	249	239 96.0	239 96.0	239 96.0	239 96.0	239 96.0	234 94.0	232 93.2	235 94.4	244 98.0	235 94.4	235 94.4	235 94.4	235 94.4	235 94.4
Newport LA	522	496 95.0	496 95.0	496 95.0	495 94.8	493 94.4	477 91.4	460 88.1	475 91.0	505 96.7	469 89.8	463 88.7	463 88.7	463 88.7	463 88.7
Torfaen LA	281	277 98.6	277 98.6	277 98.6	277 98.6	277 98.6	275 97.9	259 92.2	266 94.7	279 99.3	266 94.7	264 94.0	264 94.0	264 94.0	263 93.6
Health Board Total	1800	1750 97.2	1750 97.2	1750 97.2	1749 97.2	1747 97.1	1715 95.3	1644 91.3	1691 93.9	1768 98.2	1672 92.9	1655 91.9	1655 91.9	1655 91.9	1654 91.9
Betsi Cadwaladr University HB															
Anglesey LA	205	200 97.6	200 97.6	200 97.6	200 97.6	200 97.6	199 97.1	194 94.6	193 94.1	194 94.6	205 100.0	192 93.7	194 94.6	194 94.6	194 94.6
Conwy LA	327	321 98.2	321 98.2	321 98.2	321 98.2	321 98.2	314 96.0	301 92.0	312 95.4	324 99.1	312 95.4	310 94.8	310 94.8	310 94.8	310 94.8
Denbighshire LA	264	260 98.5	260 98.5	260 98.5	260 98.5	260 98.5	255 96.6	247 93.6	251 95.1	261 98.9	251 95.1	253 95.8	253 95.8	253 95.8	253 95.8
Flintshire LA	443	431 97.3	431 97.3	431 97.3	431 97.3	431 97.3	423 95.5	401 90.5	424 95.7	433 97.7	410 92.6	418 94.4	418 94.4	418 94.4	417 94.1
Gwynedd LA	327	312 95.4	312 95.4	312 95.4	312 95.4	312 95.4	293 89.6	296 90.5	303 92.7	315 96.3	296 90.5	300 91.7	300 91.7	300 91.7	300 91.7
Wrexham LA	484	478 98.8	478 98.8	478 98.8	478 98.8	478 98.8	476 98.3	465 96.1	458 94.6	468 96.7	479 99.0	466 96.3	467 96.5	467 96.5	467 96.5
Health Board Total	2050	2002 97.7	2002 97.7	2002 97.7	2002 97.7	2002 97.7	1998 97.5	1944 94.8	1896 92.5	1952 95.2	2017 98.4	1927 94.0	1942 94.7	1942 94.7	1942 94.7
Cardiff and Vale University HB															
Cardiff LA	1149	1113 96.9	1113 96.9	1113 96.9	1111 96.7	1106 96.3	1046 91.0	1018 88.6	1053 91.6	1126 98.0	1032 89.8	1043 90.8	1043 90.8	1043 90.8	1042 90.7
Vale of Glamorgan LA	393	388 98.7	388 98.7	388 98.7	388 98.7	388 98.7	380 96.7	376 95.7	378 96.2	390 99.2	371 94.4	377 95.9	377 95.9	377 95.9	377 95.9
Health Board Total	1542	1501 97.3	1501 97.3	1501 97.3	1499 97.2	1494 96.9	1426 92.5	1394 90.4	1431 92.8	1516 98.3	1403 91.0	1420 92.1	1420 92.1	1420 92.1	1419 92.0
Cwm Taf HB															
Merthyr Tydfil LA	195	193 99.0	193 99.0	193 99.0	192 98.5	193 99.0	191 97.9	186 95.4	190 97.4	194 99.5	187 95.9	186 95.4	186 95.4	186 95.4	186 95.4
Rhondda Cynon Taff LA	743	726 97.7	726 97.7	726 97.7	726 97.7	726 97.7	722 97.2	693 93.3	711 95.7	732 98.5	699 94.1	706 95.0	706 95.0	706 95.0	706 95.0
Health Board Total	938	919 98.0	919 98.0	919 98.0	918 97.9	919 98.0	913 97.3	879 93.7	901 96.1	926 98.7	886 94.5	892 95.1	892 95.1	892 95.1	892 95.1
Hywel Dda HB															
Cardemarthenshire LA	477	463 97.1	463 97.1	463 97.1	462 96.9	462 96.9	453 95.0	438 91.8	447 93.7	471 98.7	441 92.5	445 93.3	445 93.3	445 93.3	445 93.3
Ceredigion LA	166	159 95.8	159 95.8	159 95.8	159 95.8	159 95.8	156 94.0	151 91.0	155 93.4	161 97.0	155 93.4	153 92.2	153 92.2	153 92.2	153 92.2
Pembrokeshire LA	318	302 95.0	302 95.0	302 95.0	300 94.3	299 94.0	296 93.1	278 87.4	297 93.4	308 96.9	277 87.1	289 90.9	289 90.9	289 90.9	289 90.9
Health Board Total	961	924 96.1	924 96.1	924 96.1	921 95.8	920 95.7	905 94.2	867 90.2	899 93.5	940 97.8	873 90.8	887 92.3	887 92.3	887 92.3	887 92.3
Powys Teaching HB	352	335 95.2	335 95.2	335 95.2	335 95.2	335 95.2	291 82.7	320 90.9	328 93.2	340 96.6	321 91.2	323 91.8	323 91.8	323 91.8	323 91.8
Unknown	33	33 100.0	33 100.0	33 100.0	33 100.0	33 100.0	30 90.9	31 93.9	32 97.0	33 100.0	32 97.0	32 97.0	32 97.0	32 97.0	32 97.0
Wales Total	9144	8896 97.3	8896 97.3	8896 97.3	8887 97.2	8872 97.0	8613 94.2	8373 91.6	8624 94.3	8990 98.3	8477 92.7	8513 93.1	8513 93.1	8513 93.1	8510 93.1

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

** Final (booster) dose of pneumococcal conjugate vaccine

Table 6. Uptake of HPV vaccine in girls reaching 13 and 14 years of age between 01/09/12 and 31/08/13 and resident on 30/09/13.

Area	13 years (2012-13 School Year 8)*							14 years (2012-13 School Year 9)						
	Resident girls (n)	HPV 1 dose (n) (%)	HPV 2 doses (n) (%)	HPV 3 doses (n) (%)	Resident girls (n)	HPV 1 dose (n) (%)	HPV 2 doses (n) (%)	HPV 3 doses (n) (%)	Resident girls (n)	HPV 1 dose (n) (%)	HPV 2 doses (n) (%)	HPV 3 doses (n) (%)		
Abertawe Bro Morgannwg University HB														
Bridgend LA	725	680 93.8	670 92.4	636 87.7	774	702 90.7	695 89.8	689 89.0						
Neath Port Talbot LA	660	615 93.2	601 91.1	533 80.8	721	655 90.8	649 90.0	646 89.6						
Swansea LA	1210	1106 91.4	1088 89.9	977 80.7	1165	1059 90.9	1048 90.0	1030 88.4						
Health Board Total	2595	2401 92.5	2359 90.9	2146 82.7	2660	2416 90.8	2392 89.9	2365 88.9						
Aneurin Bevan HB														
Blaenau Gwent LA	370	346 93.5	335 90.5	310 83.8	383	364 95.0	364 95.0	357 93.2						
Caerphilly LA	915	829 90.6	815 89.1	749 81.9	996	919 92.3	912 91.6	906 91.0						
Monmouthshire LA	525	416 79.2	404 77.0	386 73.5	523	408 78.0	404 77.2	399 76.3						
Newport LA	863	767 88.9	743 86.1	696 80.6	941	805 85.5	793 84.3	778 82.7						
Torfaen LA	476	424 89.1	418 87.8	383 80.5	540	494 91.5	493 91.3	480 88.9						
Health Board Total	3149	2782 88.3	2715 86.2	2524 80.2	3383	2990 88.4	2966 87.7	2920 86.3						
Betsi Cadwaladr University HB														
Anglesey LA	350	310 88.6	308 88.0	295 84.3	363	325 89.5	321 88.4	311 85.7						
Conwy LA	589	523 88.8	518 87.9	502 85.2	599	545 91.0	542 90.5	536 89.5						
Denbighshire LA	494	431 87.2	429 86.8	413 83.6	551	487 88.4	485 88.0	480 87.1						
Flintshire LA	797	727 91.2	719 90.2	690 86.6	786	726 92.4	720 91.6	712 90.6						
Gwynedd LA	606	541 89.3	535 88.3	533 88.0	644	569 88.4	563 87.4	556 86.3						
Wrexham LA	707	619 87.6	615 87.0	604 85.4	668	604 90.4	601 90.0	599 89.7						
Health Board Total	3543	3151 88.9	3124 88.2	3037 85.7	3611	3256 90.2	3232 89.5	3194 88.5						
Cardiff and Vale University HB														
Cardiff LA	1753	1544 88.1	1507 86.0	1255 71.6	1791	1589 88.7	1557 86.9	1467 81.9						
Vale of Glamorgan LA	688	636 92.4	633 92.0	558 81.1	714	661 92.6	657 92.0	634 88.8						
Health Board Total	2441	2180 89.3	2140 87.7	1813 74.3	2505	2250 89.8	2214 88.4	2101 83.9						
Cwm Taf HB														
Merthyr Tydfil LA	316	287 90.8	283 89.6	279 88.3	305	286 93.8	284 93.1	283 92.8						
Rhondda Cynon Taff LA	1182	1116 94.4	1106 93.6	1067 90.3	1241	1180 95.1	1173 94.5	1154 93.0						
Health Board Total	1498	1403 93.7	1389 92.7	1346 89.9	1546	1466 94.8	1457 94.2	1437 92.9						
Hywel Dda HB														
Carmarthenshire LA	848	763 90.0	749 88.3	718 84.7	927	840 90.6	836 90.2	831 89.6						
Ceredigion LA	307	261 85.0	258 84.0	256 83.4	307	259 84.4	256 83.4	255 83.1						
Pembrokeshire LA	616	539 87.5	533 86.5	519 84.3	652	566 86.8	558 85.6	532 81.6						
Health Board Total	1771	1563 88.3	1540 87.0	1493 84.3	1886	1665 88.3	1650 87.5	1618 85.8						
Powys Teaching HB	640	524 81.9	501 78.3	465 72.7	699	592 84.7	587 84.0	580 83.0						
Unknown	81	64 79.0	64 79.0	58 71.6	84	58 69.0	58 69.0	58 69.0						
Wales Total	15718	14068 89.5	13832 88.0	12882 82.0	16374	14693 89.7	14556 88.9	14273 87.2						

* Current campaign, data entry for immunisation sessions may still be underway.

Table 7. MMR and Td/IPV vaccine uptake in children reaching their 15th birthday between 01/07/13 and 30/09/13 and resident on 30/09/13 (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)	(%)		
<u>Abertawe Bro Morgannwg University HB</u>																				
Bridgend LA	404	394	97.5	378	93.6	319	79.0	197	194	98.5	188	95.4	206	200	97.1	190	92.2			
Neath Port Talbot LA	407	400	98.3	376	92.4	348	85.5	195	192	98.5	182	93.3	212	208	98.1	194	91.5			
Swansea LA	641	627	97.8	571	89.1	552	86.1	312	307	98.4	279	89.4	329	320	97.3	292	88.8			
Health Board Total	1452	1421	97.9	1325	91.3	1219	84.0	704	693	98.4	649	92.2	747	728	97.5	676	90.5			
<u>Aneurin Bevan HB</u>																				
Blaenau Gwent LA	184	183	99.5	170	92.4	97	52.7	93	92	98.9	86	92.5	91	91	100.0	84	92.3			
Caerphilly LA	533	515	96.6	472	88.6	304	57.0	262	258	98.5	240	91.6	271	257	94.8	232	85.6			
Monmouthshire LA	278	246	88.5	218	78.4	152	54.7	128	115	89.8	102	79.7	150	131	87.3	116	77.3			
Newport LA	554	523	94.4	483	87.2	290	52.3	267	253	94.8	234	87.6	286	270	94.4	249	87.1			
Torfaen LA	300	293	97.7	278	92.7	167	55.7	149	145	97.3	136	91.3	151	148	98.0	142	94.0			
Health Board Total	1849	1760	95.2	1621	87.7	1010	54.6	899	863	96.0	798	88.8	949	897	94.5	823	86.7			
<u>Betsi Cadwaladr University HB</u>																				
Anglesey LA	182	179	98.4	172	94.5	148	81.3	97	96	99.0	92	94.8	85	83	97.6	80	94.1			
Conwy LA	336	326	97.0	316	94.0	290	86.3	177	174	98.3	170	96.0	159	152	95.6	146	91.8			
Denbighshire LA	296	293	99.0	264	89.2	243	82.1	162	160	98.8	143	88.3	134	133	99.3	121	90.3			
Flintshire LA	490	482	98.4	449	91.6	384	78.4	233	228	97.9	211	90.6	257	254	98.8	238	92.6			
Gwynedd LA	307	297	96.7	278	90.6	264	86.0	157	155	98.7	148	94.3	150	142	94.7	130	86.7			
Wrexham LA	357	348	97.5	334	93.6	290	81.2	164	160	97.6	153	93.3	193	188	97.4	181	93.8			
Health Board Total	1968	1925	97.8	1813	92.1	1619	82.3	990	973	98.3	917	92.6	978	952	97.3	896	91.6			
<u>Cardiff and Vale University HB</u>																				
Cardiff LA	950	908	95.6	832	87.6	718	75.6	475	450	94.7	413	86.9	475	458	96.4	419	88.2			
Vale of Glamorgan LA	371	364	98.1	333	89.8	309	83.3	178	174	97.8	160	89.9	193	190	98.4	173	89.6			
Health Board Total	1321	1272	96.3	1165	88.2	1027	77.7	653	624	95.6	573	87.7	668	648	97.0	592	88.6			
<u>Cwm Taf HB</u>																				
Merthyr Tydfil LA	182	180	98.9	166	91.2	98	53.8	101	100	99.0	95	94.1	81	80	98.8	71	87.7			
Rhondda Cynon Taff LA	692	683	98.7	644	93.1	402	58.1	340	334	98.2	317	93.2	352	349	99.1	327	92.9			
Health Board Total	874	863	98.7	810	92.7	500	57.2	441	434	98.4	412	93.4	433	429	99.1	398	91.9			
<u>Hywel Dda HB</u>																				
Carmarthenshire LA	500	479	95.8	438	87.6	393	78.6	245	238	97.1	223	91.0	255	241	94.5	215	84.3			
Ceredigion LA	185	179	96.8	162	87.6	160	86.5	83	81	97.6	75	90.4	102	98	96.1	87	85.3			
Pembrokeshire LA	353	331	93.8	300	85.0	252	71.4	168	157	93.5	141	83.9	185	174	94.1	159	85.9			
Health Board Total	1038	989	95.3	900	86.7	805	77.6	496	476	96.0	439	88.5	542	513	94.6	461	85.1			
<u>Powys Teaching HB</u>	397	369	92.9	337	84.9	173	43.6	199	187	94.0	176	88.4	198	182	91.9	161	81.3			
Unknown	47	39	83.0	34	72.3	24	51.1	23	17	73.9	13	56.5	24	22	91.7	21	87.5			
Wales Total	8946	8638	96.6	8005	89.5	6377	71.3	4405	4267	96.9	3977	90.3	4539	4371	96.3	4028	88.7			

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

Table 8. MMR and Td/IPV vaccine uptake in children reaching their 16th birthday between 01/07/13 and 30/09/13 and resident on 30/09/13 (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)	(%)		
<u>Abertawe Bro Morgannwg University HB</u>	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)		
Bridgend LA	404	396	98.0	379	93.8	334	82.7	224	219	97.8	211	94.2	180	177	98.3	168	93.3			
Neath Port Talbot LA	380	369	97.1	332	87.4	302	79.5	196	192	98.0	174	88.8	184	177	96.2	158	85.9			
Swansea LA	682	668	97.9	595	87.2	578	84.8	345	338	98.0	299	86.7	337	330	97.9	296	87.8			
Health Board Total	1466	1433	97.7	1306	89.1	1214	82.8	765	749	97.9	684	89.4	701	684	97.6	622	88.7			
<u>Aneurin Bevan HB</u>																				
Blaenau Gwent LA	205	200	97.6	180	87.8	162	79.0	104	100	96.2	89	85.6	101	100	99.0	91	90.1			
Caerphilly LA	468	452	96.6	425	90.8	361	77.1	234	222	94.9	210	89.7	234	230	98.3	215	91.9			
Monmouthshire LA	274	243	88.7	217	79.2	193	70.4	143	126	88.1	111	77.6	130	116	89.2	105	80.8			
Newport LA	539	521	96.7	470	87.2	413	76.6	272	263	96.7	233	85.7	267	258	96.6	237	88.8			
Torfaen LA	304	293	96.4	279	91.8	245	80.6	155	150	96.8	143	92.3	149	143	96.0	136	91.3			
Health Board Total	1790	1709	95.5	1571	87.8	1374	76.8	908	861	94.8	786	86.6	881	847	96.1	784	89.0			
<u>Betsi Cadwaladr University HB</u>																				
Anglesey LA	201	196	97.5	185	92.0	175	87.1	104	102	98.1	101	97.1	97	94	96.9	84	86.6			
Conwy LA	296	292	98.6	274	92.6	250	84.5	136	135	99.3	128	94.1	160	157	98.1	146	91.3			
Denbighshire LA	299	290	97.0	271	90.6	249	83.3	157	149	94.9	142	90.4	142	141	99.3	129	90.8			
Flintshire LA	409	403	98.5	378	92.4	357	87.3	197	192	97.5	177	89.8	212	211	99.5	201	94.8			
Gwynedd LA	346	342	98.8	322	93.1	298	86.1	168	167	99.4	160	95.2	178	175	98.3	162	91.0			
Wrexham LA	388	380	97.9	360	92.8	313	80.7	186	183	98.4	173	93.0	202	197	97.5	187	92.6			
Health Board Total	1939	1903	98.1	1790	92.3	1642	84.7	948	928	97.9	881	92.9	991	975	98.4	909	91.7			
<u>Cardiff and Vale University HB</u>																				
Cardiff LA	987	926	93.8	842	85.3	768	77.8	466	442	94.8	402	86.3	521	484	92.9	440	84.5			
Vale of Glamorgan LA	442	419	94.8	397	89.8	365	82.6	235	223	94.9	213	90.6	207	196	94.7	184	88.9			
Health Board Total	1429	1345	94.1	1239	86.7	1133	79.3	701	665	94.9	615	87.7	728	680	93.4	624	85.7			
<u>Cwm Taf HB</u>																				
Merthyr Tydfil LA	161	154	95.7	141	87.6	121	75.2	81	75	92.6	70	86.4	80	79	98.8	71	88.8			
Rhondda Cynon Taff LA	702	685	97.6	624	88.9	595	84.8	324	319	98.5	294	90.7	378	366	96.8	330	87.3			
Health Board Total	863	839	97.2	765	88.6	716	83.0	405	394	97.3	364	89.9	458	445	97.2	401	87.6			
<u>Hywel Dda HB</u>																				
Carmarthenshire LA	519	497	95.8	446	85.9	414	79.8	263	251	95.4	227	86.3	256	246	96.1	219	85.5			
Ceredigion LA	206	201	97.6	186	90.3	179	86.9	112	107	95.5	99	88.4	94	94	100.0	87	92.6			
Pembrokeshire LA	358	340	95.0	308	86.0	171	47.8	166	159	95.8	146	88.0	192	181	94.3	162	84.4			
Health Board Total	1083	1038	95.8	940	86.8	764	70.5	541	517	95.6	472	87.2	542	521	96.1	468	86.3			
<u>Powys Teaching HB</u>	413	392	94.9	350	84.7	327	79.2	210	196	93.3	172	81.9	203	196	96.6	178	87.7			
Unknown	61	50	82.0	45	73.8	40	65.6	27	24	88.9	22	81.5	34	26	76.5	23	67.6			
Wales Total	9044	8709	96.3	8006	88.5	7210	79.7	4505	4334	96.2	3996	88.7	4538	4374	96.4	4009	88.3			

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

Table 9. Uptake of HPV vaccine in girls reaching appropriate birthdays between 01/09/12 and 31/08/13 and resident in Wales on 30/09/13.

Area	15 years							16 years							17 years						
	Resident girls	1 dose		2 doses		3 doses		Resident girls	1 dose		2 doses		3 doses		Resident girls	1 dose		2 doses		3 doses	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(%)
ABM ULHB																					
Bridgend LA	788	728	92.4	724	91.9	715	90.7	840	764	91.0	759	90.4	749	89.2	701	634	90.4	632	90.2	627	89.4
Neath Port Talbot LA	771	729	94.6	723	93.8	711	92.2	801	714	89.1	702	87.6	690	86.1	773	717	92.8	710	91.8	704	91.1
Swansea LA	1245	1128	90.6	1118	89.8	1100	88.4	1257	1088	86.6	1076	85.6	1059	84.2	1261	1165	92.4	1161	92.1	1151	91.3
Health Board Total	2804	2585	92.2	2565	91.5	2526	90.1	2898	2566	88.5	2537	87.5	2498	86.2	2735	2516	92.0	2503	91.5	2482	90.7
Aneurin Bevan LHB																					
Blaenau Gwent LA	401	364	90.8	359	89.5	355	88.5	398	375	94.2	371	93.2	365	91.7	412	397	96.4	396	96.1	386	93.7
Caerphilly LA	1030	934	90.7	920	89.3	900	87.4	1080	959	88.8	950	88.0	930	86.1	1037	954	92.0	948	91.4	934	90.1
Monmouthshire LA	503	382	75.9	378	75.1	373	74.2	593	453	76.4	445	75.0	439	74.0	543	418	77.0	414	76.2	338	62.2
Newport LA	986	842	85.4	833	84.5	822	83.4	944	777	82.3	775	82.1	763	80.8	912	772	84.6	766	84.0	730	80.0
Torfaen LA	573	516	90.1	517	90.2	513	89.5	609	551	90.5	550	90.3	544	89.3	558	523	93.7	521	93.4	512	91.8
Health Board Total	3493	3038	87.0	3007	86.1	2963	84.8	3624	3115	86.0	3091	85.3	3041	83.9	3462	3064	88.5	3045	88.0	2900	83.8
Betsi Cadwaladr ULHB																					
Anglesey LA	359	335	93.3	333	92.8	331	92.2	398	341	85.7	337	84.7	329	82.7	387	346	89.4	343	88.6	334	86.3
Conwy LA	606	561	92.6	561	92.6	549	90.6	602	539	89.5	535	88.9	526	87.4	596	532	89.3	531	89.1	528	88.6
Denbighshire LA	526	483	91.8	480	91.3	471	89.5	577	507	87.9	504	87.3	493	85.4	510	479	93.9	473	92.7	465	91.2
Flintshire LA	833	763	91.6	760	91.2	750	90.0	888	797	89.8	793	89.3	789	88.9	867	821	94.7	820	94.6	809	93.3
Gwynedd LA	604	536	88.7	533	88.2	531	87.9	674	574	85.2	570	84.6	563	83.5	623	543	87.2	539	86.5	527	84.6
Wrexham LA	714	646	90.5	642	89.9	640	89.6	653	577	88.4	572	87.6	573	87.7	723	683	94.5	677	93.6	671	92.8
Health Board Total	3642	3324	91.3	3309	90.9	3272	89.8	3792	3335	87.9	3311	87.3	3273	86.3	3706	3404	91.9	3383	91.3	3334	90.0
Cardiff & Vale ULHB																					
Cardiff LA	1852	1612	87.0	1588	85.7	1516	81.9	1793	1526	85.1	1481	82.6	1422	79.3	1885	1626	86.3	1606	85.2	1549	82.2
Vale of Glamorgan LA	750	677	90.3	663	88.4	629	83.9	843	731	86.7	708	84.0	677	80.3	785	697	88.8	692	88.2	664	84.6
Health Board Total	2602	2289	88.0	2251	86.5	2145	82.4	2636	2257	85.6	2189	83.0	2099	79.6	2670	2323	87.0	2298	86.1	2213	82.9
Cwm Taf LHB																					
Merthyr Tydfil LA	330	300	90.9	298	90.3	295	89.4	377	344	91.2	340	90.2	324	85.9	357	338	94.7	335	93.8	329	92.2
Rhondda Cynon Taff LA	1289	1209	93.8	1192	92.5	1167	90.5	1318	1217	92.3	1207	91.6	1194	90.6	1291	1206	93.4	1200	93.0	1190	92.2
Health Board Total	1619	1509	93.2	1490	92.0	1462	90.3	1695	1561	92.1	1547	91.3	1518	89.6	1648	1544	93.7	1535	93.1	1519	92.2
Hywel Dda LHB																					
Cardiffmarthenshire LA	929	832	89.6	830	89.3	821	88.4	985	831	84.4	819	83.1	814	82.6	988	898	90.9	895	90.6	874	88.5
Ceredigion LA	339	287	84.7	284	83.8	276	81.4	340	269	79.1	267	78.5	265	77.9	301	250	83.1	249	82.7	247	82.1
Pembrokeshire LA	638	551	86.4	547	85.7	534	83.7	658	565	85.9	556	84.5	541	82.2	665	586	88.1	582	87.5	576	86.6
Health Board Total	1906	1670	87.6	1661	87.1	1631	85.6	1983	1665	84.0	1642	82.8	1620	81.7	1954	1734	88.7	1726	88.3	1697	86.8
Powys Teaching LHB	691	582	84.2	574	83.1	564	81.6	737	599	81.3	596	80.9	585	79.4	687	603	87.8	601	87.5	592	86.2
Unknown	94	62	66.0	59	62.8	59	62.8	121	73	60.3	72	59.5	70	57.9	126	87	69.0	87	69.0	84	66.7
Wales Total	16851	15059	89.4	14916	88.5	14622	86.8	17486	15171	86.8	14985	85.7	14704	84.1	16988	15275	89.9	15178	89.3	14821	87.2

Table 10. Uptake of BCG immunisation in children reaching their 1st, 2nd, 5th and 16th birthdays between 01/07/13 and 30/09/13 and resident on 30/09/13.

Area	1 yr			2 yrs			5 yrs			16 yrs		
	Resident children (n)	BCG Immunised (n)	(%)	Resident children (n)	BCG Immunised (n)	(%)	Resident children (n)	BCG Immunised (n)	(%)	Resident children (n)	BCG Immunised (n)	(%)
Abertawe Bro Morgannwg University												
Bridgend LA	400	18	4.5	422	19	4.5	432	15	3.5	404	6	1.5
Neath Port Talbot LA	371	11	3.0	372	11	3.0	387	14	3.6	380	2	0.5
Swansea LA	714	66	9.2	724	78	10.8	649	56	8.6	682	15	2.2
Health Board Total	1485	95	6.4	1518	108	7.1	1468	85	5.8	1466	23	1.6
Aneurin Bevan												
Blaenau Gwent LA	195	7	3.6	195	4	2.1	197	5	2.5	205	0	0.0
Caerphilly LA	536	9	1.7	544	8	1.5	551	9	1.6	468	2	0.4
Monmouthshire LA	220	8	3.6	214	11	5.1	249	11	4.4	274	3	1.1
Newport LA	465	73	15.7	462	62	13.4	522	86	16.5	539	19	3.5
Torfaen LA	279	7	2.5	247	9	3.6	281	2	0.7	304	3	1.0
Health Board Total	1695	104	6.1	1662	94	5.7	1800	113	6.3	1790	27	1.5
Betsi Cadwalladr University												
Anglesey LA	206	3	1.5	199	6	3.0	205	7	3.4	201	3	1.5
Conwy LA	296	10	3.4	280	6	2.1	327	11	3.4	296	9	3.0
Denbighshire LA	253	10	4.0	250	8	3.2	264	8	3.0	299	15	5.0
Flintshire LA	446	10	2.2	411	20	4.9	443	12	2.7	409	10	2.4
Gwynedd LA	341	8	2.3	357	8	2.2	327	13	4.0	346	6	1.7
Wrexham LA	450	34	7.6	449	36	8.0	484	24	5.0	388	9	2.3
Health Board Total	1992	75	3.8	1946	84	4.3	2050	75	3.7	1939	52	2.7
Cardiff and Vale University												
Cardiff LA	1135	216	19.0	1163	233	20.0	1149	245	21.3	987	100	10.1
Vale of Glamorgan LA	335	12	3.6	374	18	4.8	393	11	2.8	442	15	3.4
Health Board Total	1470	228	15.5	1537	251	16.3	1542	256	16.6	1429	115	8.0
Cwm Taf												
Merthyr Tydfil LA	200	19	9.5	197	16	8.1	195	15	7.7	161	2	1.2
Rhondda Cynon Taff LA	729	28	3.8	733	31	4.2	743	34	4.6	702	10	1.4
Health Board Total	929	47	5.1	930	47	5.1	938	49	5.2	863	12	1.4
Hywel Dda												
Carmarthenshire LA	486	12	2.5	484	17	3.5	477	17	3.6	519	11	2.1
Ceredigion LA	171	8	4.7	162	11	6.8	166	5	3.0	206	2	1.0
Pembrokeshire LA	327	4	1.2	336	9	2.7	318	8	2.5	358	3	0.8
Health Board Total	984	24	2.4	982	37	3.8	961	30	3.1	1083	16	1.5
Powys Teaching Health Board	326	5	1.5	315	13	4.1	352	6	1.7	413	11	2.7
Unknown	22	1	4.5	26	0	0.0	33	3	9.1	61	0	0.0
Wales Total	8903	579	6.5	8916	634	7.1	9144	617	6.7	9044	256	2.8

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

Table 11. Uptake of hepatitis B immunisation in children receiving their first dose within seven days of birth, reaching their 1st, 2nd, 5th and 16th birthdays during 01/07/13 and 30/09/13 and resident on 30/09/13, and percentage who are recorded as completing doses 1 to 3.

Area	1yr					2yrs					5yrs					16yrs				
	Resident children	HepB dose 1	HepB dose 2	HepB dose 3	Completed 3 doses	Resident children	HepB dose 1	HepB dose 2	HepB dose 3	Completed 3 doses	Resident children	HepB dose 1	HepB dose 2	HepB dose 3	Completed 3 doses	Resident children	HepB dose 1	HepB dose 2	HepB dose 3	Completed 3 doses
Abertawe Bro Morgannwg University	(n)	(n)	(n)	(n)	(%)	(n)	(n)	(n)	(n)	(%)	(n)	(n)	(n)	(n)	(%)	(n)	(n)	(n)	(n)	(%)
Bridgend LA	400	4	3	2	50.0	422	4	4	2	50.0	432	2	1	1	50.0	404	0	0	0	-
Neath Port Talbot LA	371	4	2	2	50.0	372	0	0	0	-	387	5	5	4	80.0	380	0	0	0	-
Swansea LA	714	11	9	8	72.7	724	6	5	4	66.7	649	7	6	6	85.7	682	0	0	0	-
Health Board Total	1485	19	14	12	63.2	1518	10	9	6	60.0	1468	14	12	11	78.6	1466	0	0	0	-
Aneurin Bevan																				
Blaenau Gwent LA	195	0	0	0	-	195	1	1	1	100.0	197	1	1	1	100.0	205	0	0	0	-
Caerphilly LA	536	1	0	0	0.0	544	3	3	2	66.7	551	2	1	1	50.0	468	0	0	0	-
Monmouthshire LA	220	0	0	0	-	214	0	0	0	-	249	1	0	0	0.0	274	1	1	1	100.0
Newport LA	465	8	7	6	75.0	462	5	5	5	100.0	522	6	4	1	16.7	539	2	2	1	50.0
Torfaen LA	279	1	1	1	100.0	247	1	1	1	100.0	281	0	0	0	-	304	0	0	0	-
Health Board Total	1695	10	8	7	70.0	1662	10	10	9	90.0	1800	10	6	3	30.0	1790	3	3	2	66.7
Betsi Cadwaladr University																				
Anglesey LA	206	1	1	1	100.0	199	2	2	2	100.0	205	0	0	0	-	201	0	0	0	-
Conwy LA	296	1	1	1	100.0	280	1	1	1	100.0	327	3	2	1	33.3	296	0	0	0	-
Denbighshire LA	253	0	0	0	-	250	0	0	0	-	264	0	0	0	-	299	1	1	1	100.0
Flintshire LA	446	1	1	1	100.0	411	2	1	1	50.0	443	3	3	2	66.7	409	0	0	0	-
Gwynedd LA	341	1	1	1	100.0	357	2	1	1	50.0	327	5	4	3	60.0	346	2	2	2	100.0
Wrexham LA	450	1	1	1	100.0	449	4	3	2	50.0	484	9	9	9	100.0	388	2	2	2	100.0
Health Board Total	1992	5	5	5	100.0	1946	11	8	7	63.6	2050	20	18	15	75.0	1939	5	5	5	100.0
Cardiff and Vale University																				
Cardiff LA	1135	13	13	9	69.2	1163	28	27	23	82.1	1149	31	29	26	83.9	987	11	11	10	90.9
Vale of Glamorgan LA	335	1	1	1	100.0	374	1	1	0	0.0	393	3	3	3	100.0	442	2	2	2	100.0
Health Board Total	1470	14	14	10	71.4	1537	29	28	23	79.3	1542	34	32	29	85.3	1429	13	13	12	92.3
Cwm Taf																				
Merthyr Tydfil LA	200	2	0	0	0.0	197	1	1	1	100.0	195	3	3	3	100.0	161	1	1	1	100.0
Rhondda Cynon Taff LA	729	4	4	3	75.0	733	4	4	3	75.0	743	2	1	1	50.0	702	1	1	1	100.0
Health Board Total	929	6	4	3	50.0	930	5	5	4	80.0	938	5	4	4	80.0	863	2	2	2	100.0
Hywel Dda																				
Carmarthenshire LA	486	2	1	0	0.0	484	2	2	2	100.0	477	4	4	2	50.0	519	0	0	0	-
Ceredigion LA	171	0	0	0	-	162	0	0	0	-	166	1	1	1	100.0	206	0	0	0	-
Pembrokeshire LA	327	2	2	0	0.0	336	2	1	1	50.0	318	0	0	0	-	358	0	0	0	-
Health Board Total	984	4	3	0	0.0	982	4	3	3	75.0	961	5	5	3	60.0	1083	0	0	0	-
Powys Teaching Health Board	326	0	0	0	-	315	1	1	0	0.0	352	1	1	0	0.0	413	0	0	0	-
Unknown	22	0	0	0	-	26	0	0	0	-	33	0	0	0	-	61	0	0	0	-
Wales Total	8903	58	48	37	63.8	8916	70	64	52	74.3	9144	89	78	65	73.0	9044	23	23	21	91.3

Data reflects immunisations given and recorded on the NCCHD (following notifications to local Child Health Administration Offices), may be subject to under-reporting. Hepatitis B is not a routinely scheduled immunisation. Only children who receive the first dose of hepatitis B vaccine within seven days of birth (suggesting high risk status) are included in this table