

Vaccine Uptake in Children in Wales

July to September 2019

COVER 132: Wales December 2019

Key points

- For children at one year of age in Wales, uptake of all routine immunisations, apart from rotavirus, remained above 95% this quarter. Uptake of three doses of the “6 in 1” vaccine was 95% or higher in five of the seven Health Boards (HB) and in 14 of 22 Local Authority (LA) areas.
- Uptake of the complete three-dose course of MenB vaccine in two year olds was 94.0% this quarter. Two HBs and nine LA areas had an uptake above 95%.
- Uptake of the first dose of MMR vaccine in two year old children was 94.4% this quarter. Two HBs and eight LA areas achieved an uptake of 95% or over.
- The proportion of children up to date with all routine immunisations by four years of age was 87.1% this quarter and was 90.8% in five year olds.
- Uptake of one dose of HPV vaccine in 2018-19 school year 8 girls (12-13 year olds) is 85.8%. In girls in the 2018-19 school year 9 (13-14 year olds), uptake of two doses is 81.2%. Vaccination sessions for the first dose of the Human Papillomavirus vaccine (HPV) scheduled in girls in the 2018-19 school year 8 (12-13 year olds), and for the second dose of the HPV vaccine scheduled in girls in the 2018-19 school year 9 (13-14 year olds) should now be complete.
- Uptake of routine MenACWY vaccine in the 2018-19 school year 9 cohort is 84.0%. Coverage of the MenACWY vaccine in the 2018-19 school year 10 cohort was 85.5%.
- Uptake of the Td/IPV teenage booster in the 2018-19 school year 9 cohort is 84.0%. Coverage of the Td/IPV teenage booster in the 2018-19 school year 10 was 85.3%.
- Coverage of one dose of MMR vaccine in the 2018-19 school year 10 (age 14-15 years) was 95.4%, coverage of two doses was 91.8%.
- Coverage of one dose of MMR vaccine in the 2018-19 school year 11 (age 15-16 years) was 94.4%, coverage of two doses was 90.0%.

Background

These results are for children living in Wales in September 2019 and reaching their first, second, fourth, fifth and 16th birthdays during the quarter 01/07/2019 to 30/09/2019. Uptake of key immunisations in older children, which are mainly provided through school based programmes in all areas other than Cardiff and Vale University Health Board, are presented in school year cohorts (children reaching their 14th, 15th and 16th birthdays between 01/09/2018 and 31/08/2019). BCG immunisation uptake data are also presented here for children vaccinated selectively following risk assessment. Coverage of neonatal hepatitis B immunisation in infants at risk is also presented, using data from the Public Health Wales Neonatal Hepatitis B database. MenACWY conjugate vaccine uptake figures for teenagers and young adults born from 01/09/1996 to 31/08/1999, vaccinated as part of the general practice-based catch-up campaign are available from:

<http://www.wales.nhs.uk/sitesplus/888/page/88528>

Public Health Wales Vaccine Preventable Disease Programme and Communicable Disease Surveillance Centre, working with Powys Teaching Health Board and the NHS Wales Informatics Service, carried out a COVER data quality assurance project in 2018. This project has led to improvements in completeness of vaccination data in the national COVER dataset. The impact is that reported vaccination uptake has increased; primarily in children aged four years and older. National trends in this report for 2015 – 2018 are updated to take into account these changes.

Findings

1. Uptake of all three doses of the combined “6 in 1” DTaP/IPV/Hib/HepB¹ vaccine, scheduled at two, three and four months of age, in children reaching their first birthday was 95.1% this quarter, compared to 95.8% last quarter. Uptake ranged by HB from 92.2% (Cardiff and Vale) to 97.1% (Cwm Taf Morgannwg) and by LA from 91.7% (Cardiff) to 98.2% (Anglesey). Five of the seven HBs and 14 of the 22 LA areas achieved the target 95% uptake (Figures 2, 3 and 6, Tables 2 and 3).
2. Uptake of a complete two dose primary course of pneumococcal conjugate vaccination (PCV2) in children reaching their first birthday dropped to 95.3% this quarter compared to 96.0% last quarter, and ranged by LA from 92.3% (Cardiff and Pembrokeshire) to 97.6% (Rhondda Cynon Taf and Anglesey). Five of the seven HBs and 15 of the 22 LA areas achieved the target 95% uptake (Figures 2 and 3, Tables 2 and 3).
3. Uptake of two doses of MenB vaccine, scheduled at two and four months of age, in children reaching their first birthday was 95.1% this quarter. Uptake in HBs ranged from 92.2% (Cardiff and Vale) to 97.2% (Cwm Taf Morgannwg) and ranged by LA from 91.6% (Pembrokeshire) to 97.6% (Wrexham and Anglesey) (Figure 3, Tables 2 and 3).
4. Uptake of two doses of rotavirus vaccine in children reaching their first birthday decreased to 93.6% this quarter. Uptake in HBs ranged from 92.2% (Cardiff and Vale) to 95.8% (Cwm Taf Morgannwg) and ranged by LA from 89.9% (Newport) to 97.6% (Anglesey) (Figures 2 and 3, Tables 2 and 3).
5. Uptake of the first dose of MMR² in children reaching their second birthday (scheduled at 12 to 13 months of age) decreased to 94.4% from 94.7% this quarter. Uptake ranged by HB from 93.1% (Cardiff and Vale) to 96.1% (Cwm Taf Morgannwg) and by LA area from 90.2% (Torfaen) to 97.2% (Blaenau Gwent). Two HBs and 8 LA areas achieved the target of 95% uptake (Figures 2, 3 and 7, Tables 2 and 4).
6. Uptake of the complete three dose course of MenB vaccine in children reaching their second birthday was 94.0% this quarter compared to 94.1% last quarter. Uptake ranged by HB from 90.5% (Cardiff and Vale) to 96.6% (Cwm Taf Morgannwg) and by LA from 89.6% (Cardiff) to 97.3% (Rhondda Cynon Taf). Two of the seven HBs and 9 of the 22 LA areas achieved the target 95% uptake (Figures 2 and 3, Tables 2 and 4).
7. Uptake of the final dose of Pneumococcal Conjugate Vaccine (PCVf, scheduled at 12 to 13 months of age) in children reaching their second birthday decreased to 94.7% this quarter compared to 95.0% last quarter. Uptake ranged by HB from 92.5% (Cardiff and Vale) to 96.8% (Cwm Taf Morgannwg) and ranged by LA from 91.9% (Cardiff) to 97.7% (Anglesey). Four HBs and 12 LA areas achieved an uptake of 95% or over (Figure 3, Tables 2 and 4).
8. Uptake of the Hib/MenC booster (given at 12 to 13 months of age) in children reaching two years of age decreased to 94.1% this quarter compared to 94.4% last quarter. Uptake ranged by HB from 92.1% (Cardiff and Vale) to 95.8% (Cwm Taf Morgannwg), and ranged by LA from 91.0% (Torfaen) to 97.2% (Anglesey). Two HBs and 9 LA areas achieved uptakes in excess of 95% (Figures 1, 2 and 3, Tables 2 and 4).
9. In children reaching four years of age this quarter (Table 5), uptake of:
 - The “4 in 1” DTaP/IPV³ pre-school booster was 88.9%
 - The Hib/MenC booster was 95.6%
 - Two doses of MMR was 88.0%

The proportion of children who were up to date with all these routine immunisations at four years of age was 87.1%. This ranged by HB from 85.3% (Cardiff and Vale) to 92.8% (Powys) and by LA from 79.9% (Newport) to 92.8% (Powys) (Figures 4 and 5, Tables 1, 2 and 5).

¹ DTaP/IPV/Hib/HepB vaccine protects against Diphtheria, Tetanus, Pertussis (Whooping Cough), Polio, Hib and Hep B infection.

² MMR protects against measles, mumps and rubella infections.

³ DTaP/IPV (and dTaP/IPV) vaccines boost protection against Diphtheria, Tetanus, Pertussis and Polio infection before school entry.

10. The proportion of children who were up to date with routine immunisations by their fifth birthday remained stable at 90.8% this quarter. This ranged by HB from 89.4% (Hywel Dda) to 92.4% (Betsi Cadwaladr) (Table 6).
11. In children reaching five years of age this quarter, coverage of one dose of MMR was 97.1%. Coverage of two doses of MMR was 92.4%. Coverage of two doses of MMR ranged by HB from 90.8% (Cwm Taf Morgannwg) to 93.6% (Betsi Cadwaladr) and by LA from 88.6% (Merthyr Tydfil) to 95.2% (Anglesey) (Figures 1, 2, 3 and 8, Tables 2, 6 and 7).
12. Uptake of the "4 in 1" DTaP/IPV³ pre-school booster in children reaching their fifth birthday was 92.8% this quarter, ranging by HB from 91.1% (Hywel Dda) to 94.0% (Powys) and by LA from 89.0% (Merthyr Tydfil) to 95.5% (Monmouthshire). One of the 22 LAs achieved the 95% uptake target (Figure 3 and 9, Tables 2, 6 and 7).
13. Uptake of the first dose of HPV vaccine for girls in the 2018-19 school year 8 group (turning 13 years of age during 01/09/18 to 31/08/19) is currently 85.8%. Coverage of the first dose in the 2018-19 school year 9 is currently 89.6% and uptake of the second dose in this age group is currently 81.2%. Timings of school vaccination sessions vary throughout the year and although vaccination sessions for girls in the 2018-19 school year 8 group (dose one) and 2018-19 school year 9 (dose two) will be complete, data entry may not be. Coverage of a complete two dose course of HPV vaccine in 2018-19 school year 10 girls (girls reaching their 15th birthday during 01/09/18 to 31/08/19) is currently 84.8% (Table 8).
14. Current uptake of the MenACWY vaccine in the 2018-19 routine school year 9 cohort is 84.0%, vaccination sessions are now complete but data entry may not be (Table 9 and 10). Coverage in the 2018-19 school years 10, 11 and 12, is currently 85.5%, 85.4% and 82.4% respectively (Table 9).
15. Uptake of the Td/IPV⁴ teenage booster in the 2018-19 school year 9 (children reaching 14 years of age) is currently 84.0%. Coverage of two doses of MMR in this year group is currently 91.8% and coverage of one dose is 95.5%. Coverage of two doses of MMR vaccine ranged by HB from 89.8% (Powys) to 93.7% (Aneurin Bevan). Coverage of a full course of immunisation against rubella (two doses of MMR) in 14 year old girls in this school year group was 92.3% (Table 10).
16. Coverage of the Td/IPV teenage booster in the 2018-19 school year 10 (children reaching 15 years of age) is currently 85.3%. Coverage ranged by HB from 77.0% (Cardiff and Vale) to 90.6% (Swansea Bay). Coverage of two doses of MMR in this year group was 91.8% and coverage of one dose was 95.4%. Coverage of two doses of MMR vaccine ranged by HB from 88.9% (Cardiff and Vale) to 93.7% (Aneurin Bevan). Coverage of a full course of immunisation against rubella (two doses of MMR) in 15 year old girls in this school year group was 92.2% (Table 11).
17. Coverage of the Td/IPV teenage booster in the 2018-19 school year 11 (children reaching 16 years of age) is currently 85.1%. Coverage ranged by HB from 78.0% (Cardiff and Vale) to 89.7% (Cwm Taf Morgannwg). Coverage of two doses of MMR in this year group was 90.0% and coverage of one dose was 94.4%. Coverage of two doses of MMR vaccine ranged by HB from 86.8% (Powys) to 92.8% (Betsi Cadwaladr). Coverage of a full course of immunisation against rubella (two doses of MMR) in 16 year old girls in this school year group was 90.9% (Table 12).
18. Coverage of two doses of MMR in children reaching 16 years of age this quarter (between 1st July 2019 and 30th September 2019) was 91.1%, whilst coverage of one dose of MMR was 95.2%. Coverage of a full course of immunisation against rubella (two doses of MMR) in 16 year old girls was 92.0%. National coverage of the Td/IPV teenage booster in children reaching 16 years of age this quarter was 84.8% (Figures 1, 2 and 3, Tables 2 and 13).
19. Uptake of BCG immunisation is presented in Table 14. These data are based on BCG immunisations recorded in the National Community Child Health Database. BCG immunisation has been received by 4.1%, 7.2%, 7.6% and 5.3% of children reaching their first, second, fifth and 16th birthdays (respectively) during quarter three of 2019. This quarter

⁴ Td/IPV boosts protection against Diphtheria, Tetanus and Polio infection before entering adulthood.

Newport LA had the highest proportion of children given BCG by one year of age (13.7%) and Cardiff LA by two years of age (20.9%).⁵

20. Uptake data for hepatitis B immunisation in children who were at risk of perinatal infection, extracted from the Public Health Wales All Wales Neonatal Hepatitis B Immunisation Database, is presented in Table 15. This quarter uptake of three doses of hepatitis B vaccine at their first birthday was 100.0%, uptake of four doses at their second birthday was 62.5% and uptake of four doses at their fifth birthday was 100.0%. Proportions should be interpreted with caution as small numbers of babies require an enhanced course of hepatitis B immunisation.

⁵ BCG protects against tuberculosis infection. Numbers of eligible children for BCG are not known.

Comment

Uptake of the complete three-dose course of “6 in 1” vaccine remains above 95%. Uptake of all other routine primary immunisations in infants reaching their first birthday this quarter also remain at 95% or higher, excluding rotavirus (which cannot be given beyond 24 weeks of age, so is not possible to ‘catch up’).

Uptake of immunisations measured at two years of age was slightly below 95% this quarter, of which uptake of the third scheduled dose of meningococcal group B vaccine was lowest and uptake of the final pneumococcal conjugate vaccine was the highest. Uptake of the first MMR dose in two years olds was stable and just below 95%.

Although uptake of routine vaccinations in the youngest children remains high and stable, uptake in toddlers and older children is lower and wide geographic variation is apparent. There is a gradual downward trend in uptake at 1 and 2 years of age, apparent in all childhood vaccines since 2013, which is also seen in other UK countries.

There has been a recent increase in mumps notifications in Wales. The highest number of cases have been in 16 to 30 year olds, although cases have been confirmed in all age groups. Week 48 of 2019 (week commencing 25th November) saw 251 mumps notifications, the highest number of weekly notifications in over 10 years [1]. However incidence remains much lower than seen in 2005/06. Most notifications were reported to Cardiff or Swansea Health Protection Teams.

MMR vaccine remains the most effective way of protecting against mumps and follow-up of those who have not received scheduled MMR remains key. Coverage of two doses of MMR vaccine remains suboptimal in older children and teenagers and declines with age; uptake was 88.8% in 16 year olds during the 2017-18 school year in Wales [2]. In addition to ensuring catch-up of toddlers and school-aged children, it is important that young adults who have previously missed out on MMR vaccinations are offered catch-up. A leaflet ‘Are you protected against MMR?’ providing information on the MMR vaccine is available to order from the [Health Information Resources website](#). A [Measles and Rubella Elimination Action Plan 2019-2021](#) for Wales was published in September, and contains recommendations and actions to improve and maintain vaccine uptake and ensure continued elimination of measles and rubella in Wales, and control of mumps [3].

References

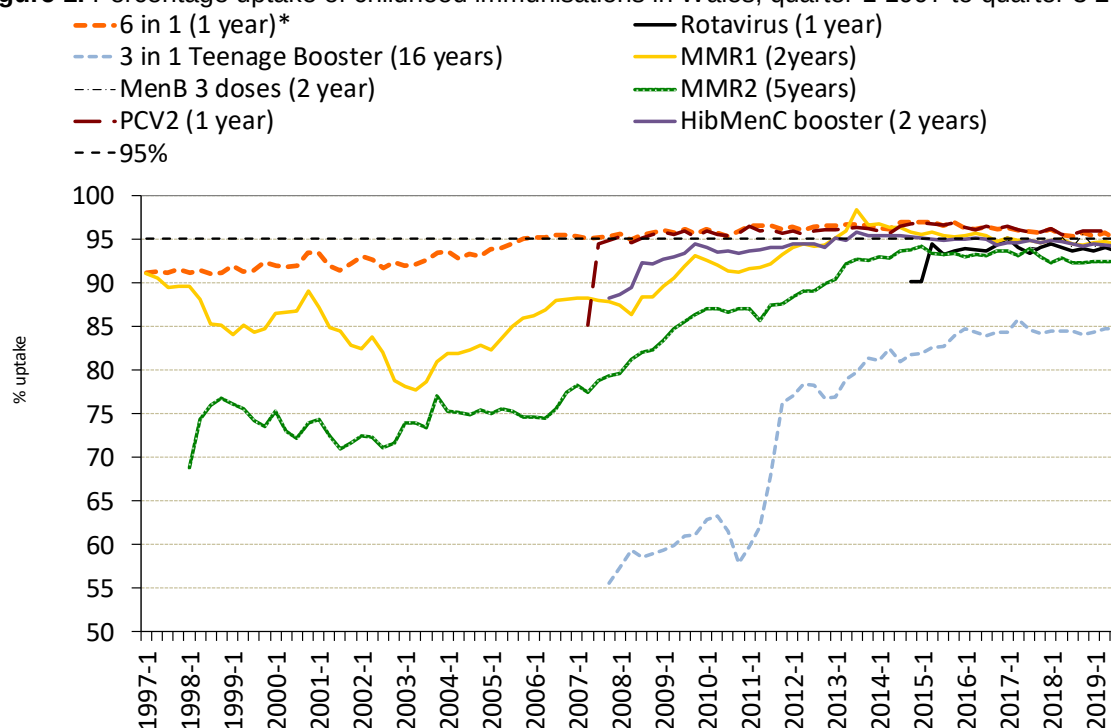
1. Public Health Wales Weekly Notification of Mumps Dashboard. December 2019: <https://public.tableau.com/profile/public.health.wales.health.protection#!/vizhome/NotificationsofMUMPSinWales2014-2017/Dashboard2>
2. MMR in school-aged children in Wales annual report, available from: <http://nww.immunisation.wales.nhs.uk/school-aged-mmr-coverage>
3. Wales Measles and Rubella Elimination Task Group Action Plan 2019-2021. Available from: <http://nww.immunisation.wales.nhs.uk/opendoc/500141>

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 nurses and doctors who immunise or advise on immunisation. Uptake data presented throughout are for HB resident population, not for HB GP practice populations. The maps, graphs, tables 1 and 2 are best viewed in colour.

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Figure 1. Percentage uptake of childhood immunisations in Wales, quarter 1 1997 to quarter 3 2019*.

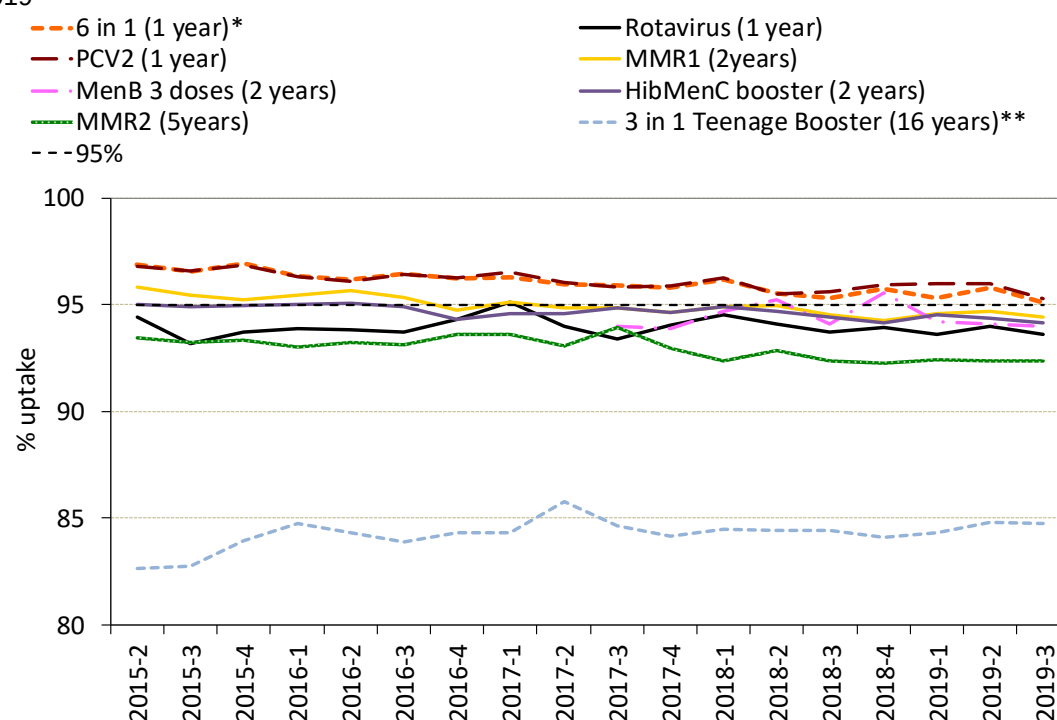


*Uptake data for quarter 3 2014 to quarter 4 2014 presented here are based on estimates calculated in August 2015, rather than published data, due to data quality problems affecting reported uptake of some immunisations in reports published during this period.

**Uptake of pertussis used as a proxy.

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

Figure 2. Percentage uptake of childhood immunisations in Wales, quarter 2 2015 to quarter 3 2019***



* Uptake of pertussis used as proxy.

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

***Uptake data for MMR2 at 5 years and the "3 in 1" teenage booster at 16 years from 2015 Q1 to 2018 Q3 are based on estimates calculated in February 2019, rather than published data. This is due to improvements in data quality made during early 2019.

Figure 3. Summary of uptake rates for selected immunisations in resident children reaching their 1st, 2nd, 5th and 16th birthday between 01/07/19 and 30/09/19 and resident on 30/09/19.

All Wales Summary - COVER 132

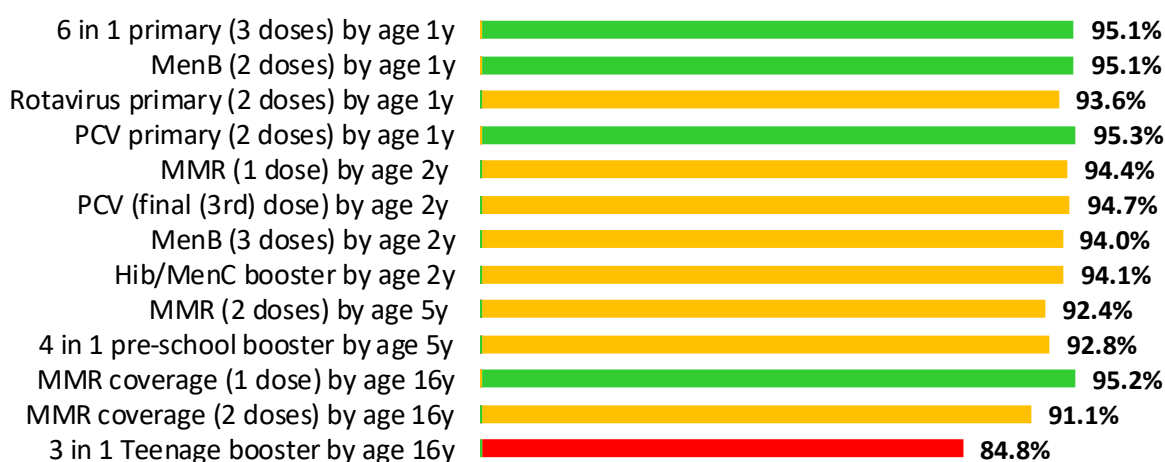


Figure 4. Percentage uptake of resident children reaching their 4th birthday between 01/07/19 and 30/09/19 and are up to date with all scheduled vaccines⁷ by health board.

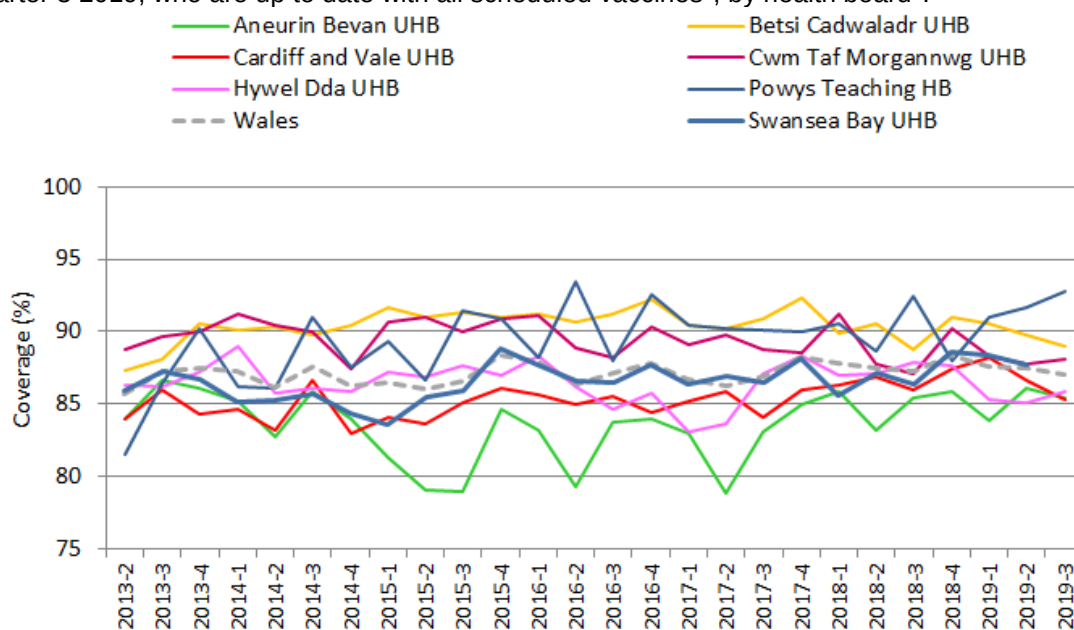


Table 1. Percentages of resident children reaching their 4th birthday during quarter 3 2018 to quarter 3 2019 who are up to date with all scheduled vaccines⁷, by Health Board.*

Area					
	2018-3	2018-4	2019-1	2019-2	2019-3
Aneurin Bevan UHB	85.4	85.9	83.9	86.0	85.4
Betsi Cadwaladr UHB	88.8	91.0	90.6	89.7	88.9
Cardiff and Vale UHB	86.0	87.5	88.2	86.6	85.3
Cwm Taf Morgannwg UHB	87.0	90.2	88.3	87.8	88.1
Hywel Dda UHB	87.9	87.6	85.3	85.1	85.9
Powys Teaching HB	92.4	88.0	91.0	91.6	92.8
Swansea Bay UHB	87.7	88.6	88.4	87.7	87.4
Wales	87.3	88.3	87.6	87.5	87.1

* Uptake data for 2018 Q3 are based on estimates calculated in February 2019, rather than published data. This is due to improvements in data quality made during early 2019.

Figure 5. Trends in the percentages of children reaching their 4th birthday during quarter 3 2013 to quarter 3 2019, who are up to date with all scheduled vaccines⁷, by health board*.



* Uptake data for quarter 3 2014 to quarter 4 2014 presented here are based on estimates calculated in August 2015, rather than published data, due to data quality problems affecting reported uptake of some immunisations in reports published during this period. The calculation method for proportions of children up to date with routine immunisation by four years of age was revised during 2014 quarter 1, to remove the pneumococcal conjugate vaccine booster dose, as this is not clinically indicated after two years of age. Uptake data from 2015 Q1 to 2018 Q3 are based on estimates calculated in February 2019, rather than published data. This is due to improvements in data quality made during early 2019.

⁷Completed "4 in 1" preschool booster, the Hib/MenC booster and second MMR dose by four years of age.

Figure 6. Uptake of “6 in 1” vaccine in Welsh Local Authority areas in children reaching their 1st birthday between 01/07/19 and 30/09/19.

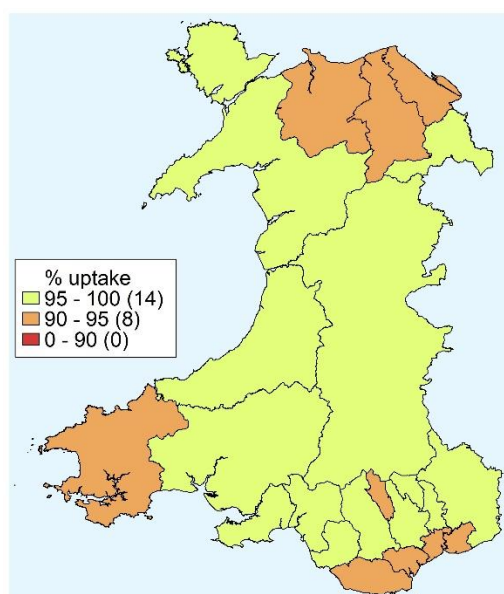


Figure 7. Uptake of at least one dose of MMR immunisation in Welsh Local Authority areas in children reaching their 2nd birthday between 01/07/19 and 30/09/19.

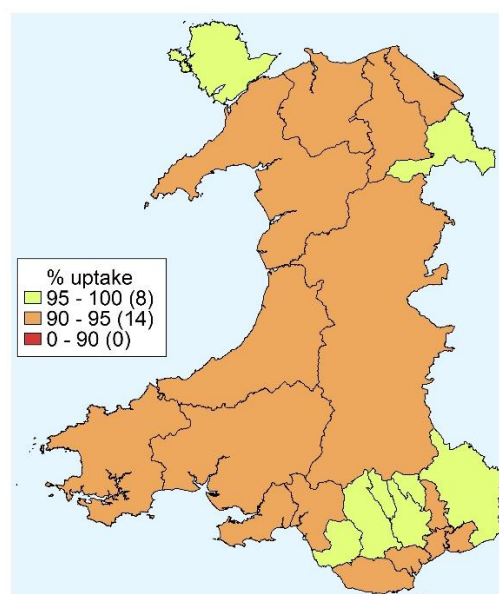


Figure 8. Uptake of two doses of MMR vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/07/19 and 30/09/19.

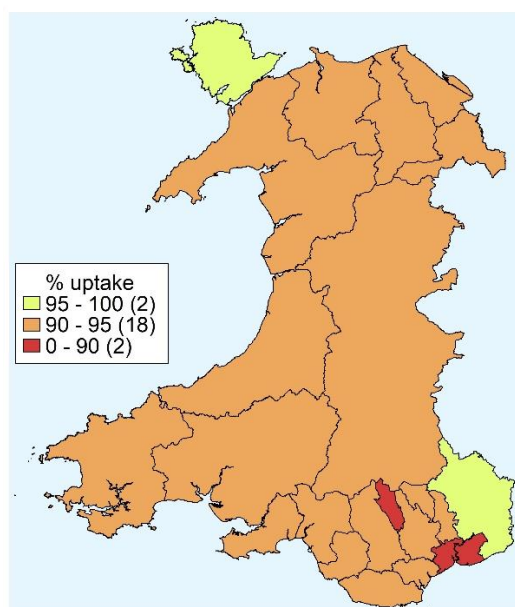


Figure 9. Uptake of “4 in 1” vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/07/19 and 30/09/19.

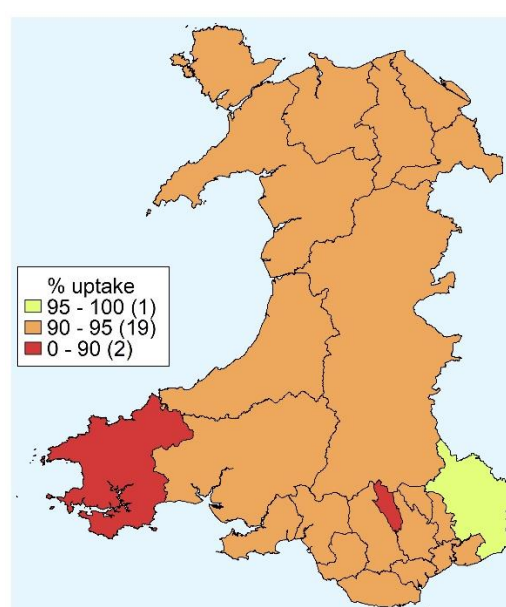


Table 2. Summary table with uptake of selected immunisations in resident children reaching their 1st, 2nd, 4th, 5th and 16th birthday between 01/07/19 and 30/09/19 and resident on 30/09/19.

Area	Age 1 year					Age 2 years					Age 4 years		Age 5 years			Age 16 years				
	Resident children (n)	6 in 1 ¹	MenB ²	PCV2	Rotavirus	Resident children (n)	MMR1	PCV ³	MenB ⁴	Hib/MenC	Resident Children (n)	Up to date in schedule ⁵	Resident children (n)	MMR2	4 in 1 ¹	Resident children (n)	MMR1	MMR2	MenACWY	3 in 1 Teenage booster ⁶
Aneurin Bevan UHB																				
Blaenau Gwent LA	180	95.0	96.1	97.2	95.6	213	97.2	96.7	97.2	97.2	189	88.9	194	94.8	94.8	187	97.9	94.7	87.2	86.6
Caerphilly LA	484	97.1	96.7	96.9	93.8	524	96.9	96.6	96.6	96.4	555	85.9	544	94.5	94.5	539	97.2	94.2	84.4	85.2
Monmouthshire LA	190	96.3	96.3	96.8	94.7	207	96.1	97.1	96.1	97.1	242	90.1	220	95.0	95.5	296	94.3	89.9	81.1	79.1
Newport LA	496	93.5	94.4	94.8	89.9	526	93.9	93.5	93.2	93.3	573	79.9	571	89.5	90.0	478	94.6	90.0	80.8	82.0
Torfaen LA	280	95.4	95.4	95.4	93.2	245	90.2	92.2	91.4	91.0	263	89.4	274	91.6	92.3	273	96.0	92.7	86.1	85.7
Health Board Total	1630	95.4	95.6	96.0	92.8	1715	95.0	95.1	94.8	94.9	1822	85.4	1803	92.6	92.9	1773	95.9	92.2	83.4	83.5
Betsi Cadwaladr UHB																				
Anglesey LA	164	98.2	97.6	97.6	97.6	176	96.6	97.7	97.2	97.2	193	90.2	186	95.2	94.6	196	95.4	94.4	83.7	83.2
Conwy LA	241	93.4	92.1	94.2	90.9	257	94.9	95.3	94.6	93.8	274	86.1	304	93.4	93.4	316	96.2	92.1	88.9	88.9
Denbighshire LA	200	93.5	93.5	92.5	92.5	255	93.7	94.5	93.7	94.1	274	86.9	294	92.5	93.5	262	94.3	88.2	86.3	86.3
Flintshire LA	401	94.0	94.0	94.5	95.0	409	93.6	94.1	94.1	93.9	430	89.8	413	92.0	92.7	465	97.2	94.6	85.4	84.5
Gwynedd LA	294	96.6	96.9	96.3	93.2	319	93.4	94.7	93.7	94.0	313	89.5	319	94.7	94.0	305	98.4	95.4	85.9	84.9
Wrexham LA	369	96.7	97.6	97.3	94.6	385	95.6	95.8	94.8	95.3	377	90.5	431	94.4	94.7	393	94.9	93.6	85.8	85.2
Health Board Total	1669	95.3	95.3	95.4	93.9	1801	94.5	95.2	94.5	94.6	1861	88.9	1947	93.6	93.8	1937	96.2	93.2	86.1	85.5
Cardiff and Vale UHB																				
Cardiff LA	1084	91.7	91.8	92.3	91.6	1077	92.5	91.9	89.6	91.7	1181	84.9	1129	92.7	93.4	1013	93.5	88.5	75.3	75.8
Vale of Glamorgan LA	338	93.8	93.5	92.9	94.1	356	94.9	94.4	93.3	93.3	354	86.4	384	92.2	93.0	391	96.7	91.8	81.3	81.3
Health Board Total	1422	92.2	92.2	92.4	92.2	1433	93.1	92.5	90.5	92.1	1535	85.3	1513	92.6	93.3	1404	94.4	89.5	77.0	77.4
Cwm Taf Morgannwg UHB																				
Bridgend LA	391	97.4	97.4	96.7	96.2	414	95.9	96.1	96.1	94.7	435	86.2	406	91.4	91.9	394	94.2	88.6	88.6	87.8
Merthyr Tydfil LA	190	94.2	95.8	95.8	92.1	189	95.2	95.8	95.2	95.2	221	91.4	210	88.6	89.0	157	92.4	87.9	88.5	87.9
Rhondda Cynon Taf LA	680	97.8	97.5	97.6	96.6	691	96.5	97.4	97.3	96.7	725	88.3	742	91.1	91.8	733	96.0	92.5	91.3	90.6
Health Board Total	1261	97.1	97.2	97.1	95.8	1294	96.1	96.8	96.6	95.8	1381	88.1	1358	90.8	91.4	1284	95.0	90.7	90.1	89.4
Hywel Dda UHB																				
Carmarthenshire LA	468	95.1	94.2	95.1	93.2	500	92.8	93.0	91.8	92.4	508	86.2	488	90.8	91.0	533	95.5	92.9	89.3	89.3
Ceredigion LA	130	96.2	96.9	96.9	91.5	152	94.7	96.1	94.7	95.4	163	90.8	173	93.6	94.2	158	96.2	91.8	86.1	86.1
Pembrokeshire LA	274	92.7	91.6	92.3	92.3	310	93.2	93.2	92.9	92.6	334	82.9	343	90.1	89.8	327	95.4	90.8	80.1	80.1
Health Board Total	872	94.5	93.8	94.5	92.7	962	93.2	93.6	92.6	92.9	1005	85.9	1004	91.0	91.1	1018	95.6	92.0	85.9	85.9
Powys Teaching UHB																				
Health Board Total	308	96.4	96.4	96.4	94.8	304	94.7	95.4	95.1	95.1	291	92.8	284	93.3	94.0	359	94.7	89.1	86.1	84.1
Swansea Bay UHB																				
Neath Port Talbot LA	356	95.5	95.8	95.8	94.4	386	94.8	95.3	95.1	94.0	387	88.1	401	92.3	93.0	393	93.9	88.5	88.5	86.5
Swansea LA	625	95.8	96.0	96.0	94.1	626	93.8	94.2	93.6	93.5	680	87.1	659	92.9	93.0	724	92.8	87.8	90.2	89.8
Health Board Total	981	95.7	95.9	95.9	94.2	1012	94.2	94.7	94.2	93.7	1067	87.4	1060	92.6	93.0	1117	93.2	88.1	89.6	88.6
Unknown	5	100.0	100.0	100.0	100.0	6	100.0	100.0	100.0	100.0	3	100.0	7	100.0	100.0	34	97.1	88.2	82.4	82.4
Wales Total	8148	95.1	95.1	95.3	93.6	8527	94.4	94.7	94.0	94.1	8965	87.1	8976	92.4	92.8	8926	95.2	91.1	85.1	84.8

¹ Uptake of pertussis used as proxy.

² Uptake of two doses of meningococcal serogroup B (MenB) vaccine, scheduled at two and four months of age

³ Children receiving the final dose of PCV

⁴ Uptake of 3 doses of meningococcal serogroup B (MenB) vaccine, scheduled at two, four and 12-13 months of age

⁵ Completed "4 in 1" preschool booster, the Hib/ MenC booster and second MMR dose by four years of age

⁶ Uptake of diphtheria (reinforcing booster dose) used as proxy

	95% and higher
	90% to 95%
	below 90%

Table 3. Vaccine uptake in children reaching their 1st birthday between 01/07/19 and 30/09/19 and resident on 30/09/19.

Area	Resident children	D3		T3		P3		Po3		Hib3		HepB		MMR1		Rotavirus		PCV2 ¹		Men B ²		HibMenC	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
<u>Aneurin Bevan University HB</u>																							
Blaenau Gwent LA	180	171	95.0	171	95.0	171	95.0	171	95.0	171	95.0	172	95.6	0	0.0	172	95.6	175	97.2	173	96.1	0	0.0
Caerphilly LA	484	470	97.1	470	97.1	470	97.1	470	97.1	470	97.1	468	96.7	1	0.2	454	93.8	469	96.9	468	96.7	0	0.0
Monmouthshire LA	190	183	96.3	183	96.3	183	96.3	183	96.3	181	95.3	183	96.3	2	1.1	180	94.7	184	96.8	183	96.3	1	0.5
Newport LA	496	464	93.5	464	93.5	464	93.5	464	93.5	464	93.5	465	93.8	2	0.4	446	89.9	470	94.8	468	94.4	0	0.0
Torfaen LA	280	267	95.4	267	95.4	267	95.4	267	95.4	267	95.4	267	95.4	0	0.0	261	93.2	267	95.4	267	95.4	0	0.0
Health Board Total	1630	1555	95.4	1555	95.4	1555	95.4	1555	95.4	1553	95.3	1555	95.4	5	0.3	1513	92.8	1565	96.0	1559	95.6	1	0.1
<u>Betsi Cadwaladr University HB</u>																							
Anglesey LA	164	161	98.2	161	98.2	161	98.2	161	98.2	161	98.2	161	98.2	0	0.0	160	97.6	160	97.6	160	97.6	0	0.0
Conwy LA	241	225	93.4	225	93.4	225	93.4	225	93.4	225	93.4	225	93.4	0	0.0	219	90.9	227	94.2	222	92.1	0	0.0
Denbighshire LA	200	187	93.5	187	93.5	187	93.5	187	93.5	187	93.5	187	93.5	0	0.0	185	92.5	185	92.5	187	93.5	0	0.0
Flintshire LA	401	377	94.0	377	94.0	377	94.0	377	94.0	377	94.0	377	94.0	0	0.0	381	95.0	379	94.5	377	94.0	0	0.0
Gwynedd LA	294	284	96.6	284	96.6	284	96.6	284	96.6	284	96.6	284	96.6	0	0.0	274	93.2	283	96.3	285	96.9	0	0.0
Wrexham LA	369	357	96.7	357	96.7	357	96.7	357	96.7	357	96.7	356	96.5	1	0.3	349	94.6	359	97.3	360	97.6	0	0.0
Health Board Total	1669	1591	95.3	1591	95.3	1591	95.3	1591	95.3	1591	95.3	1590	95.3	1	0.1	1568	93.9	1593	95.4	1591	95.3	0	0.0
<u>Cardiff and Vale University HB</u>																							
Cardiff LA	1084	994	91.7	994	91.7	994	91.7	994	91.7	994	91.7	991	91.4	5	0.5	993	91.6	1000	92.3	995	91.8	0	0.0
Vale of Glamorgan LA	338	317	93.8	317	93.8	317	93.8	317	93.8	317	93.8	318	94.1	4	1.2	318	94.1	314	92.9	316	93.5	4	1.2
Health Board Total	1422	1311	92.2	1311	92.2	1311	92.2	1311	92.2	1311	92.2	1309	92.1	9	0.6	1311	92.2	1314	92.4	1311	92.2	4	0.3
<u>Cwm Taf Morgannwg University HB</u>																							
Bridgend LA	391	381	97.4	381	97.4	381	97.4	381	97.4	381	97.4	381	97.4	2	0.5	376	96.2	378	96.7	381	97.4	1	0.3
Merthyr Tydfil LA	190	179	94.2	179	94.2	179	94.2	179	94.2	179	94.2	179	94.2	2	1.1	175	92.1	182	95.8	182	95.8	2	1.1
Rhondda Cynon Taf LA	680	665	97.8	665	97.8	665	97.8	665	97.8	665	97.8	664	97.6	1	0.1	657	96.6	664	97.6	663	97.5	1	0.1
Health Board Total	1261	1225	97.1	1225	97.1	1225	97.1	1225	97.1	1225	97.1	1224	97.1	5	0.4	1208	95.8	1224	97.1	1226	97.2	4	0.3
<u>Hywel Dda University HB</u>																							
Carmarthenshire LA	468	445	95.1	445	95.1	445	95.1	445	95.1	445	95.1	443	94.7	2	0.4	436	93.2	445	95.1	441	94.2	0	0.0
Ceredigion LA	130	125	96.2	125	96.2	125	96.2	125	96.2	125	96.2	124	95.4	0	0.0	119	91.5	126	96.9	126	96.9	0	0.0
Pembrokeshire LA	274	254	92.7	254	92.7	254	92.7	254	92.7	254	92.7	254	92.7	1	0.4	253	92.3	253	92.3	251	91.6	0	0.0
Health Board Total	872	824	94.5	824	94.5	824	94.5	824	94.5	824	94.5	821	94.2	3	0.3	808	92.7	824	94.5	818	93.8	0	0.0
<u>Powys Teaching HB</u>																							
Health Board Total	308	297	96.4	297	96.4	297	96.4	297	96.4	297	96.4	295	95.8	1	0.3	292	94.8	297	96.4	297	96.4	1	0.3
<u>Swansea Bay University HB</u>																							
Neath Port Talbot LA	356	340	95.5	340	95.5	340	95.5	340	95.5	340	95.5	340	95.5	0	0.0	336	94.4	341	95.8	341	95.8	0	0.0
Swansea LA	625	599	95.8	599	95.8	599	95.8	599	95.8	599	95.8	600	96.0	2	0.3	588	94.1	600	96.0	600	96.0	1	0.2
Health Board Total	981	939	95.7	939	95.7	939	95.7	939	95.7	939	95.7	940	95.8	2	0.2	924	94.2	941	95.9	941	95.9	1	0.1
Unknown	5	5	100.0	5	100.0	5	100.0	5	100.0	5	100.0	5	80.0	0	0.0	5	100.0	5	100.0	5	100.0	0	0.0
Wales Total	8148	7747	95.1	7747	95.1	7747	95.1	7747	95.1	7745	95.1	7739	95.0	26	0.3	7629	93.6	7763	95.3	7748	95.1	11	0.1

¹ Full primary two dose course of pneumococcal conjugate vaccine.

² Uptake of two doses of meningococcal serogroup B (MenB) vaccine, scheduled at two and four months of age.

Table 4. Vaccine uptake in children reaching their 2nd birthday between 01/07/19 and 30/09/19 and resident on 30/09/19.

Area	Resident children	D3		T3		P3		Po3		Hib3		MMR1		PCV2 ¹		PCVf ²		Men B ³		HibMenC	
Aneurin Bevan University HB	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
Blaenau Gwent LA	213	209	98.1	209	98.1	209	98.1	209	98.1	209	98.1	207	97.2	207	97.2	206	96.7	207	97.2	207	97.2
Caerphilly LA	524	511	97.5	511	97.5	511	97.5	511	97.5	511	97.5	508	96.9	503	96.0	506	96.6	506	96.6	505	96.4
Monmouthshire LA	207	203	98.1	203	98.1	203	98.1	203	98.1	203	98.1	199	96.1	202	97.6	201	97.1	199	96.1	201	97.1
Newport LA	526	502	95.4	502	95.4	502	95.4	502	95.4	502	95.4	494	93.9	498	94.7	492	93.5	490	93.2	491	93.3
Torfaen LA	245	233	95.1	233	95.1	233	95.1	233	95.1	233	95.1	221	90.2	231	94.3	226	92.2	224	91.4	223	91.0
Health Board Total	1715	1658	96.7	1658	96.7	1658	96.7	1658	96.7	1658	96.7	1629	95.0	1641	95.7	1631	95.1	1626	94.8	1627	94.9
Betsi Cadwaladr University HB																					
Anglesey LA	176	171	97.2	171	97.2	171	97.2	171	97.2	171	97.2	170	96.6	169	96.0	172	97.7	171	97.2	171	97.2
Conwy LA	257	246	95.7	246	95.7	246	95.7	246	95.7	246	95.7	244	94.9	241	93.8	245	95.3	243	94.6	241	93.8
Denbighshire LA	255	244	95.7	244	95.7	244	95.7	244	95.7	244	95.7	239	93.7	239	93.7	241	94.5	239	93.7	240	94.1
Flintshire LA	409	392	95.8	392	95.8	392	95.8	392	95.8	392	95.8	383	93.6	390	95.4	385	94.1	385	94.1	384	93.9
Gwynedd LA	319	306	95.9	306	95.9	306	95.9	306	95.9	306	95.9	298	93.4	303	95.0	302	94.7	299	93.7	300	94.0
Wrexham LA	385	374	97.1	374	97.1	374	97.1	374	97.1	374	97.1	368	95.6	372	96.6	369	95.8	365	94.8	367	95.3
Health Board Total	1801	1733	96.2	1733	96.2	1733	96.2	1733	96.2	1733	96.2	1702	94.5	1714	95.2	1714	95.2	1702	94.5	1703	94.6
Cardiff and Vale University HB																					
Cardiff LA	1077	1023	95.0	1023	95.0	1023	95.0	1023	95.0	1023	95.0	996	92.5	998	92.7	990	91.9	965	89.6	988	91.7
Vale of Glamorgan LA	356	341	95.8	341	95.8	341	95.8	341	95.8	341	95.8	338	94.9	335	94.1	336	94.4	332	93.3	332	93.3
Health Board Total	1433	1364	95.2	1364	95.2	1364	95.2	1364	95.2	1364	95.2	1334	93.1	1333	93.0	1326	92.5	1297	90.5	1320	92.1
Cwm Taf Morgannwg University HB																					
Bridgend LA	414	407	98.3	407	98.3	407	98.3	407	98.3	407	98.3	397	95.9	400	96.6	398	96.1	398	96.1	392	94.7
Merthyr Tydfil LA	189	182	96.3	182	96.3	182	96.3	182	96.3	182	96.3	180	95.2	182	96.3	181	95.8	180	95.2	180	95.2
Rhondda Cynon Taf LA	691	678	98.1	678	98.1	678	98.1	678	98.1	678	98.1	667	96.5	679	98.3	673	97.4	672	97.3	668	96.7
Health Board Total	1294	1267	97.9	1267	97.9	1267	97.9	1267	97.9	1267	97.9	1244	96.1	1261	97.4	1252	96.8	1250	96.6	1240	95.8
Hywel Dda University HB																					
Cardemarthenshire LA	500	480	96.0	480	96.0	480	96.0	479	95.8	479	95.8	464	92.8	476	95.2	465	93.0	459	91.8	462	92.4
Ceredigion LA	152	146	96.1	146	96.1	146	96.1	146	96.1	146	96.1	144	94.7	146	96.1	146	96.1	144	94.7	145	95.4
Pembrokeshire LA	310	296	95.5	296	95.5	296	95.5	296	95.5	296	95.5	289	93.2	293	94.5	289	93.2	288	92.9	287	92.6
Health Board Total	962	922	95.8	922	95.8	922	95.8	921	95.7	921	95.7	897	93.2	915	95.1	900	93.6	891	92.6	894	92.9
Powys Teaching HB																					
Health Board Total	304	293	96.4	293	96.4	293	96.4	293	96.4	293	96.4	288	94.7	292	96.1	290	95.4	289	95.1	289	95.1
Swansea Bay University HB																					
Neath Port Talbot LA	386	377	97.7	377	97.7	377	97.7	377	97.7	377	97.7	366	94.8	373	96.6	368	95.3	367	95.1	363	94.0
Swansea LA	626	607	97.0	607	97.0	607	97.0	607	97.0	607	97.0	587	93.8	594	94.9	590	94.2	586	93.6	585	93.5
Health Board Total	1012	984	97.2	984	97.2	984	97.2	984	97.2	984	97.2	953	94.2	967	95.6	958	94.7	953	94.2	948	93.7
Unknown	6	6	100.0	6	100.0	6	100.0	6	100.0	6	100.0	6	100.0	6	100.0	6	100.0	6	100.0	6	100.0
Wales Total	8527	8227	96.5	8227	96.5	8227	96.5	8226	96.5	8226	96.5	8053	94.4	8129	95.3	8077	94.7	8014	94.0	8027	94.1

¹ Full primary two dose course of pneumococcal conjugate vaccine.

² Final (booster) dose of pneumococcal conjugate vaccine.

³ Uptake of 3 doses of meningococcal serogroup B (MenB) vaccine, scheduled at two, four and 12-13 months of age.

Table 5. Vaccine uptake in children reaching their 4th birthday between 01/07/19 and 30/09/19 and resident on 30/09/19. The proportion of children who have received all of these vaccines by their 4th birthday is also presented.

Area	Resident children	4 in 1 Preschool Booster ¹		HibMenC		MMR dose 2		Up to date in schedule ²	
Aneurin Bevan University HB	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
Blaenau Gwent LA	189	170	89.9	185	97.9	170	89.9	168	88.9
Caerphilly LA	555	483	87.0	536	96.6	479	86.3	477	85.9
Monmouthshire LA	242	226	93.4	230	95.0	220	90.9	218	90.1
Newport LA	573	475	82.9	529	92.3	472	82.4	458	79.9
Torfaen LA	263	242	92.0	252	95.8	238	90.5	235	89.4
Health Board Total	1822	1596	87.6	1732	95.1	1579	86.7	1556	85.4
Betsi Cadwaladr University HB									
Anglesey LA	193	176	91.2	190	98.4	177	91.7	174	90.2
Conwy LA	274	241	88.0	260	94.9	240	87.6	236	86.1
Denbighshire LA	274	240	87.6	264	96.4	239	87.2	238	86.9
Flintshire LA	430	390	90.7	417	97.0	389	90.5	386	89.8
Gwynedd LA	313	285	91.1	302	96.5	281	89.8	280	89.5
Wrexham LA	377	345	91.5	361	95.8	343	91.0	341	90.5
Health Board Total	1861	1677	90.1	1794	96.4	1669	89.7	1655	88.9
Cardiff and Vale University HB									
Cardiff LA	1181	1036	87.7	1105	93.6	1021	86.5	1003	84.9
Vale of Glamorgan LA	354	314	88.7	341	96.3	311	87.9	306	86.4
Health Board Total	1535	1350	87.9	1446	94.2	1332	86.8	1309	85.3
Cwm Taf Morgannwg University HB									
Bridgend LA	435	379	87.1	419	96.3	378	86.9	375	86.2
Merthyr Tydfil LA	221	207	93.7	212	95.9	203	91.9	202	91.4
Rhondda Cynon Taf LA	725	653	90.1	700	96.6	648	89.4	640	88.3
Health Board Total	1381	1239	89.7	1331	96.4	1229	89.0	1217	88.1
Hywel Dda University HB									
Carmarthenshire LA	508	448	88.2	486	95.7	439	86.4	438	86.2
Ceredigion LA	163	151	92.6	154	94.5	149	91.4	148	90.8
Pembrokeshire LA	334	285	85.3	308	92.2	280	83.8	277	82.9
Health Board Total	1005	884	88.0	948	94.3	868	86.4	863	85.9
Powys Teaching HB									
Health Board Total	291	272	93.5	279	95.9	270	92.8	270	92.8
Swansea Bay University HB									
Neath Port Talbot LA	387	347	89.7	378	97.7	343	88.6	341	88.1
Swansea LA	680	603	88.7	658	96.8	598	87.9	592	87.1
Health Board Total	1067	950	89.0	1036	97.1	941	88.2	933	87.4
Unknown	3	3	100.0	3	100.0	3	100.0	3	100.0
Wales Total	8965	7971	88.9	8569	95.6	7891	88.0	7806	87.1

¹ Uptake of acellular pertussis used as proxy

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

Table 6. Vaccine uptake in children reaching their 5th birthday between 01/07/19 and 30/09/19 and resident on 30/09/19. The proportion of children who have received all of these vaccines by their 5th birthday is also presented.

Area	Resident children	4 in 1 Preschool Booster ¹	HibMenCb	MMR dose 2	Up to date in schedule ²
	(n)	(n) (%)	(n) (%)	(n) (%)	(n) (%)
<u>Aneurin Bevan University HB</u>					
Blaenau Gwent LA	194	184 94.8	190 97.9	184 94.8	183 94.3
Caerphilly LA	544	514 94.5	531 97.6	514 94.5	508 93.4
Monmouthshire LA	220	210 95.5	210 95.5	209 95.0	205 93.2
Newport LA	571	514 90.0	519 90.9	511 89.5	493 86.3
Torfaen LA	274	253 92.3	262 95.6	251 91.6	245 89.4
Health Board Total	1803	1675 92.9	1712 95.0	1669 92.6	1634 90.6
<u>Betsi Cadwaladr University HB</u>					
Anglesey LA	186	176 94.6	180 96.8	177 95.2	174 93.5
Conwy LA	304	284 93.4	296 97.4	284 93.4	282 92.8
Denbighshire LA	294	275 93.5	286 97.3	272 92.5	271 92.2
Flintshire LA	413	383 92.7	395 95.6	380 92.0	374 90.6
Gwynedd LA	319	300 94.0	311 97.5	302 94.7	296 92.8
Wrexham LA	431	408 94.7	419 97.2	407 94.4	403 93.5
Health Board Total	1947	1826 93.8	1887 96.9	1822 93.6	1800 92.4
<u>Cardiff and Vale University HB</u>					
Cardiff LA	1129	1055 93.4	1065 94.3	1047 92.7	1017 90.1
Vale of Glamorgan LA	384	357 93.0	370 96.4	354 92.2	351 91.4
Health Board Total	1513	1412 93.3	1435 94.8	1401 92.6	1368 90.4
<u>Cwm Taf Morgannwg University HB</u>					
Bridgend LA	406	373 91.9	391 96.3	371 91.4	370 91.1
Merthyr Tydfil LA	210	187 89.0	200 95.2	186 88.6	182 86.7
Rhondda Cynon Taf LA	742	681 91.8	709 95.6	676 91.1	667 89.9
Health Board Total	1358	1241 91.4	1300 95.7	1233 90.8	1219 89.8
<u>Hywel Dda University HB</u>					
Carmarthenshire LA	488	444 91.0	457 93.6	443 90.8	435 89.1
Ceredigion LA	173	163 94.2	163 94.2	162 93.6	159 91.9
Pembrokeshire LA	343	308 89.8	326 95.0	309 90.1	304 88.6
Health Board Total	1004	915 91.1	946 94.2	914 91.0	898 89.4
<u>Powys Teaching HB</u>					
Health Board Total	284	267 94.0	273 96.1	265 93.3	261 91.9
<u>Swansea Bay University HB</u>					
Neath Port Talbot LA	401	373 93.0	387 96.5	370 92.3	364 90.8
Swansea LA	659	613 93.0	634 96.2	612 92.9	602 91.4
Health Board Total	1060	986 93.0	1021 96.3	982 92.6	966 91.1
Unknown	7	7 100.0	7 100.0	7 100.0	7 100.0
Wales Total	8976	8329 92.8	8581 95.6	8293 92.4	8153 90.8

¹ Uptake of acellular pertussis used as proxy

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

Table 7. Vaccine uptake in children reaching their 5th birthday between 01/07/19 and 30/09/19 and resident on 30/09/19.

Area	Resident children	D3		T3		P3		Po3		Hib3		MenC ¹		PCVf ²		HibMenC		MMR1		MMR2		D4		T4		aP		Po4	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
<u>Aneurin Bevan University HB</u>																													
Blaenau Gwent LA	194	191	98.5	191	98.5	191	98.5	191	98.5	191	98.5	191	98.5	188	96.9	190	97.9	191	98.5	184	94.8	184	94.8	184	94.8	184	94.8	184	94.8
Caerphilly LA	544	537	98.7	537	98.7	537	98.7	537	98.7	537	98.7	536	98.5	530	97.4	531	97.6	537	98.7	514	94.5	514	94.5	514	94.5	514	94.5	513	94.3
Monmouthshire LA	220	215	97.7	215	97.7	215	97.7	214	97.3	214	97.3	210	95.5	213	96.8	210	95.5	216	98.2	209	95.0	210	95.5	210	95.5	210	95.5	210	95.5
Newport LA	571	543	95.1	543	95.1	543	95.1	543	95.1	542	94.9	527	92.3	526	92.1	519	90.9	546	95.6	511	89.5	514	90.0	514	90.0	514	90.0	514	90.0
Torfaen LA	274	268	97.8	268	97.8	268	97.8	268	97.8	268	97.8	264	96.4	260	94.9	262	95.6	267	97.4	251	91.6	253	92.3	253	92.3	253	92.3	253	92.3
Health Board Total	1803	1754	97.3	1754	97.3	1754	97.3	1753	97.2	1752	97.2	1728	95.8	1717	95.2	1712	95.0	1757	97.4	1669	92.6	1675	92.9	1675	92.9	1675	92.9	1674	92.8
<u>Betsi Cadwaladr University HB</u>																													
Anglesey LA	186	182	97.8	182	97.8	182	97.8	182	97.8	182	97.8	180	96.8	178	95.7	180	96.8	182	97.8	177	95.2	176	94.6	176	94.6	176	94.6	176	94.6
Conwy LA	304	299	98.4	299	98.4	299	98.4	299	98.4	299	98.4	294	96.7	292	96.1	296	97.4	297	97.7	284	93.4	284	93.4	284	93.4	284	93.4	284	93.4
Denbighshire LA	294	290	98.6	290	98.6	290	98.6	290	98.6	290	98.6	286	97.3	282	95.9	286	97.3	289	98.3	272	92.5	275	93.5	275	93.5	275	93.5	275	93.5
Flintshire LA	413	400	96.9	400	96.9	400	96.9	400	96.9	400	96.9	382	92.5	398	96.4	395	95.6	399	96.6	380	92.0	383	92.7	383	92.7	383	92.7	383	92.7
Gwynedd LA	319	313	98.1	313	98.1	313	98.1	313	98.1	313	98.1	308	96.6	307	96.2	311	97.5	313	98.1	302	94.7	301	94.4	301	94.4	300	94.0	301	94.4
Wrexham LA	431	424	98.4	424	98.4	424	98.4	422	97.9	423	98.1	410	95.1	418	97	419	97.2	419	97.2	407	94.4	408	94.7	408	94.7	408	94.7	408	94.7
Health Board Total	1947	1908	98.0	1908	98.0	1908	98.0	1906	97.9	1907	97.9	1860	95.5	1875	96.3	1887	96.9	1899	97.5	1822	93.6	1827	93.8	1827	93.8	1826	93.8	1827	93.8
<u>Cardiff and Vale University HB</u>																													
Cardiff LA	1129	1095	97.0	1095	97.0	1095	97.0	1095	97.0	1092	96.7	1048	92.8	1053	93.3	1065	94.3	1095	97.0	1047	92.7	1055	93.4	1055	93.4	1055	93.4	1055	93.4
Vale of Glamorgan LA	384	377	98.2	377	98.2	377	98.2	377	98.2	376	97.9	363	94.5	363	94.5	370	96.4	373	97.1	354	92.2	357	93.0	357	93.0	357	93.0	357	93.0
Health Board Total	1513	1472	97.3	1472	97.3	1472	97.3	1472	97.3	1468	97.0	1411	93.3	1416	93.6	1435	94.8	1468	97.0	1401	92.6	1412	93.3	1412	93.3	1412	93.3	1412	93.3
<u>Cwm Taf Morgannwg University HB</u>																													
Bridgend LA	406	395	97.3	395	97.3	395	97.3	395	97.3	395	97.3	388	95.6	392	96.6	391	96.3	397	97.8	371	91.4	374	92.1	374	92.1	373	91.9	373	91.9
Merthyr Tydfil LA	210	205	97.6	205	97.6	205	97.6	204	97.1	204	97.1	200	95.2	198	94.3	200	95.2	206	98.1	186	88.6	187	89.0	187	89.0	187	89.0	187	89.0
Rhondda Cynon Taf LA	742	724	97.6	724	97.6	724	97.6	724	97.6	721	97.2	724	97.6	703	94.7	709	95.6	717	96.6	676	91.1	681	91.8	681	91.8	681	91.8	681	91.8
Health Board Total	1358	1324	97.5	1324	97.5	1324	97.5	1323	97.4	1320	97.2	1312	96.6	1293	95.2	1300	95.7	1320	97.2	1233	90.8	1242	91.5	1242	91.5	1241	91.4	1241	91.4
<u>Hywel Dda University HB</u>																													
Cardiganshire LA	488	468	95.9	468	95.9	468	95.9	468	95.9	468	95.9	464	95.1	456	93.4	457	93.6	463	94.9	443	90.8	444	91.0	444	91.0	444	91.0	444	91.0
Ceredigion LA	173	166	96.0	166	96.0	166	96.0	166	96.0	166	96.0	164	94.8	164	94.8	163	94.2	166	96.0	162	93.6	163	94.2	163	94.2	163	94.2	163	94.2
Pembrokeshire LA	343	331	96.5	331	96.5	331	96.5	330	96.2	331	96.5	322	93.9	321	93.6	326	95.0	327	95.3	309	90.1	308	89.8	308	89.8	308	89.8	308	89.8
Health Board Total	1004	965	96.1	965	96.1	965	96.1	964	96.0	965	96.1	950	94.6	941	93.7	946	94.2	956	95.2	914	91.0	915	91.1	915	91.1	915	91.1	915	91.1
<u>Powys Teaching HB</u>																													
Health Board Total	284	279	98.2	279	98.2	279	98.2	279	98.2	279	98.2	276	97.2	272	95.8	273	96.1	278	97.9	265	93.3	267	94.0	267	94.0	267	94.0	267	94.0
<u>Swansea Bay University HB</u>																													
Neath Port Talbot LA	401	393	98.0	393	98.0	393	98.0	393	98.0	393	98.0	383	95.5	386	96.3	387	96.5	391	97.5	370	92.3	373	93.0	373	93.0	373	93.0	373	93.0
Swansea LA	659	643	97.6	643	97.6	643	97.6	643	97.6	641	97.3	625	94.8	628	95.3	634	96.2	641	97.3	612	92.9	613	93.0	613	93.0	613	93.0	613	93.0
Health Board Total	1060	1036	97.7	1036	97.7	1036	97.7	1036	97.7	1034	97.5	1008	95.1	1014	95.7	1021	96.3	1032	97.4	982	92.6	986	93.0	986	93.0	986	93.0	986	93.0
Unknown	7	7	100.0	7	100.0	7	100.0	7	100.0	7	100.0	7	100.0	7	100	7	100.0	7	100.0	7	100.0	7	100.0	7	100.0	7	100.0	7	100.0
Wales Total	8976	8745	97.4	8745	97.4	8745	97.4	8740	97.4	8732	97.3	8552	95.3	8535	95.1	8581	95.6	8717	97.1	8293	92.4	8331	92.8	8331	92.8	8329	92.8	8329	92.8

¹ One dose of MenC vaccine scheduled at 12 weeks of age.

² Final (booster) dose of pneumococcal conjugate vaccine

Table 8. Uptake of HPV vaccine in girls reaching 13, 14 and 15 years of age between 01/09/18 and 31/08/19 and resident on 30/09/19.

Area	13 years (2018-19 School Year 8) ¹			14 years (2018-19 School Year 9) ¹					15 years (2018-19 School Year 10)				
	Resident girls (n)	HPV 1 dose (n) (%)		Resident girls (n)	HPV 1 dose (n) (%)	HPV 2 dose (n) (%)			Resident girls (n)	HPV 1 dose (n) (%)	HPV 2 dose (n) (%)		
<u>Aneurin Bevan University HB</u>													
Blaenau Gwent LA	413	346	83.8	340	307	90.3	245	72.1	374	329	88.0	308	82.4
Caerphilly LA	1018	768	75.4	1012	921	91.0	769	76.0	1017	916	90.1	864	85.0
Monmouthshire LA	515	408	79.2	513	416	81.1	342	66.7	539	430	79.8	405	75.1
Newport LA	947	749	79.1	952	790	83.0	656	68.9	905	743	82.1	682	75.4
Torfaen LA	550	468	85.1	555	482	86.8	402	72.4	489	440	90.0	419	85.7
Health Board Total	3443	2739	79.6	3372	2916	86.5	2414	71.6	3324	2858	86.0	2678	80.6
<u>Betsi Cadwaladr University HB</u>													
Anglesey LA	337	288	85.5	342	294	86.0	267	78.1	347	308	88.8	287	82.7
Conwy LA	591	509	86.1	532	488	91.7	446	83.8	574	522	90.9	498	86.8
Denbighshire LA	540	433	80.2	527	467	88.6	416	78.9	509	448	88.0	421	82.7
Flintshire LA	823	670	81.4	807	735	91.1	636	78.8	798	734	92.0	704	88.2
Gwynedd LA	677	602	88.9	634	566	89.3	538	84.9	528	475	90.0	469	88.8
Wrexham LA	769	637	82.8	735	667	90.7	594	80.8	689	614	89.1	590	85.6
Health Board Total	3737	3139	84.0	3577	3217	89.9	2897	81.0	3445	3101	90.0	2969	86.2
<u>Cardiff and Vale University HB</u>													
Cardiff LA	2016	1664	82.5	1990	1754	88.1	1620	81.4	1870	1615	86.4	1449	77.5
Vale of Glamorgan LA	735	663	90.2	746	674	90.3	648	86.9	742	666	89.8	641	86.4
Health Board Total	2751	2327	84.6	2736	2428	88.7	2268	82.9	2612	2281	87.3	2090	80.0
<u>Cwm Taf Morgannwg University HB</u>													
Bridgend LA	798	716	89.7	799	725	90.7	663	83.0	809	748	92.5	708	87.5
Merthyr Tydfil LA	320	289	90.3	356	332	93.3	306	86.0	316	289	91.5	279	88.3
Rhondda Cynon Taf LA	1396	1292	92.6	1396	1303	93.3	1223	87.6	1313	1243	94.7	1191	90.7
Health Board Total	2514	2297	91.4	2551	2360	92.5	2192	85.9	2438	2280	93.5	2178	89.3
<u>Hywel Dda University HB</u>													
Cardemarthenshire LA	987	883	89.5	979	898	91.7	853	87.1	972	880	90.5	846	87.0
Ceredigion LA	290	258	89.0	284	248	87.3	238	83.8	328	285	86.9	275	83.8
Pembrokeshire LA	618	534	86.4	607	540	89.0	488	80.4	632	544	86.1	510	80.7
Health Board Total	1895	1675	88.4	1870	1686	90.2	1579	84.4	1932	1709	88.5	1631	84.4
<u>Powys Teaching HB</u>													
Health Board Total	652	571	87.6	655	559	85.3	511	78.0	655	568	86.7	556	84.9
<u>Swansea Bay University HB</u>													
Neath Port Talbot LA	802	748	93.3	816	769	94.2	725	88.8	738	696	94.3	668	90.5
Swansea LA	1247	1131	90.7	1171	1081	92.3	1018	86.9	1216	1130	92.9	1099	90.4
Health Board Total	2049	1879	91.7	1987	1850	93.1	1743	87.7	1954	1826	93.4	1767	90.4
Unknown	40	33	82.5	44	38	86.4	36	81.8	46	39	84.8	38	82.6
Wales Total	17081	14660	85.8	16792	15054	89.6	13640	81.2	16406	14662	89.4	13907	84.8

¹ Timings of immunisation sessions vary between HBs and uptake will increase over the next quarter as more immunisation sessions take place.

Table 9. Uptake of MenACWY vaccine in teenagers reaching 14, 15, 16 and 17 years of age between 01/09/18 and 31/08/19 and resident on 30/09/19.

Area	14 years (2018-19 School Year 9) ¹			15 years (2018-19 School Year 10)			16 years (2018-19 School Year 11) ¹			17 years (2018-19 School Year 12)		
	Resident children (n)	MenACWY (n)	(%)	Resident children (n)	MenACWY (n)	(%)	Resident children (n)	MenACWY (n)	(%)	Resident children (n)	MenACWY (n)	(%)
<u>Aneurin Bevan University HB</u>												
Blaenau Gwent LA	681	587	86.2	754	669	88.7	683	593	86.8	710	634	89.3
Caerphilly LA	2075	1779	85.7	2144	1807	84.3	2089	1775	85.0	2011	1728	85.9
Monmouthshire LA	1070	860	80.4	1134	907	80.0	1099	896	81.5	1053	811	77.0
Newport LA	1907	1566	82.1	1895	1516	80.0	1874	1488	79.4	1838	1459	79.4
Torfaen LA	1126	957	85.0	1010	900	89.1	979	830	84.8	1016	884	87.0
Health Board Total	6859	5749	83.8	6937	5799	83.6	6724	5582	83.0	6628	5516	83.2
<u>Betsi Cadwaladr University HB</u>												
Anglesey LA	702	548	78.1	732	613	83.7	703	597	84.9	728	608	83.5
Conwy LA	1164	1002	86.1	1163	1018	87.5	1162	1061	91.3	1138	1004	88.2
Denbighshire LA	1096	849	77.5	1079	920	85.3	1041	885	85.0	1138	888	78.0
Flintshire LA	1641	1327	80.9	1668	1424	85.4	1502	1303	86.8	1588	1322	83.2
Gwynedd LA	1249	1044	83.6	1157	1003	86.7	1175	1038	88.3	1167	1005	86.1
Wrexham LA	1496	1211	80.9	1434	1234	86.1	1424	1219	85.6	1323	1136	85.9
Health Board Total	7348	5981	81.4	7233	6212	85.9	7007	6103	87.1	7082	5963	84.2
<u>Cardiff and Vale University HB</u>												
Cardiff LA	4002	2878	71.9	3780	2819	74.6	3787	2899	76.6	3656	2139	58.5
Vale of Glamorgan LA	1501	1189	79.2	1441	1194	82.9	1493	1232	82.5	1354	909	67.1
Health Board Total	5503	4067	73.9	5221	4013	76.9	5280	4131	78.2	5010	3048	60.8
<u>Cwm Taf Morgannwg University HB</u>												
Bridgend LA	1704	1512	88.7	1592	1353	85.0	1562	1402	89.8	1518	1370	90.3
Merthyr Tydfil LA	713	628	88.1	664	587	88.4	670	606	90.4	629	567	90.1
Rhondda Cynon Taf LA	2865	2586	90.3	2670	2470	92.5	2815	2545	90.4	2544	2333	91.7
Health Board Total	5282	4726	89.5	4926	4410	89.5	5047	4553	90.2	4691	4270	91.0
<u>Hywel Dda University HB</u>												
Carmarthenshire LA	2010	1762	87.7	1996	1763	88.3	2049	1820	88.8	2027	1808	89.2
Ceredigion LA	648	582	89.8	674	599	88.9	620	535	86.3	583	506	86.8
Pembrokeshire LA	1236	1034	83.7	1265	1056	83.5	1225	992	81.0	1160	900	77.6
Health Board Total	3894	3378	86.7	3935	3418	86.9	3894	3347	86.0	3770	3214	85.3
<u>Powys Teaching HB</u>												
Health Board Total	1358	1189	87.6	1331	1199	90.1	1322	1132	85.6	1275	1106	86.7
<u>Swansea Bay University HB</u>												
Neath Port Talbot LA	1651	1512	91.6	1499	1369	91.3	1432	1285	89.7	1463	1344	91.9
Swansea LA	2525	2334	92.4	2567	2355	91.7	2592	2306	89.0	2515	2248	89.4
Health Board Total	4176	3846	92.1	4066	3724	91.6	4024	3591	89.2	3978	3592	90.3
Unknown	93	72	77.4	108	89	82.4	89	73	82.0	94	81	86.2
Wales Total	34513	29008	84.0	33757	28864	85.5	33387	28512	85.4	32528	26790	82.4

¹ Timings of immunisation sessions vary between HBs and uptake will increase over the next quarter as more immunisation sessions take place.

Table 10. MMR, Td/IPV and MenACWY vaccine uptake in children in 2018-19 school year 9 reaching their 14th birthday between 01/09/18 and 31/08/19 and resident on 30/09/19, with breakdown of MMR1 and MMR2 coverage by sex.

Area	Resident children		MMR1		MMR2		Teenage 3 in 1 booster ^{1,2}		MenACWY ²		Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	
<u>Aneurin Bevan University HB</u>																						
Blaenau Gwent LA	681	664	97.5	646	94.9	588	86.3	587	86.2	340	331	97.4	324	95.3	341	333	97.7	322	94.4			
Caerphilly LA	2075	2022	97.4	1972	95.0	1777	85.6	1779	85.7	1012	992	98.0	970	95.8	1063	1030	96.9	1002	94.3			
Monmouthshire LA	1070	1007	94.1	980	91.6	857	80.1	860	80.4	513	488	95.1	473	92.2	557	519	93.2	507	91.0			
Newport LA	1907	1827	95.8	1755	92.0	1559	81.8	1566	82.1	952	912	95.8	882	92.6	952	913	95.9	873	91.7			
Torfaen LA	1126	1099	97.6	1073	95.3	966	85.8	957	85.0	555	538	96.9	530	95.5	571	561	98.2	543	95.1			
Health Board Total	6859	6619	96.5	6426	93.7	5747	83.8	5749	83.8	3372	3261	96.7	3179	94.3	3484	3356	96.3	3247	93.2			
<u>Betsi Cadwaladr University HB</u>																						
Anglesey LA	702	662	94.3	638	90.9	552	78.6	548	78.1	342	323	94.4	309	90.4	360	339	94.2	329	91.4			
Conwy LA	1164	1110	95.4	1079	92.7	998	85.7	1002	86.1	532	510	95.9	497	93.4	632	600	94.9	582	92.1			
Denbighshire LA	1096	1030	94.0	990	90.3	839	76.6	849	77.5	527	495	93.9	476	90.3	569	535	94.0	514	90.3			
Flintshire LA	1641	1565	95.4	1512	92.1	1326	80.8	1327	80.9	807	774	95.9	746	92.4	834	791	94.8	766	91.8			
Gwynedd LA	1249	1203	96.3	1175	94.1	1049	84.0	1044	83.6	634	615	97.0	598	94.3	615	588	95.6	577	93.8			
Wrexham LA	1496	1453	97.1	1407	94.1	1202	80.3	1211	80.9	735	712	96.9	681	92.7	761	741	97.4	726	95.4			
Health Board Total	7348	7023	95.6	6801	92.6	5966	81.2	5981	81.4	3577	3429	95.9	3307	92.5	3771	3594	95.3	3494	92.7			
<u>Cardiff and Vale University HB</u>																						
Cardiff LA	4002	3775	94.3	3572	89.3	2883	72.0	2878	71.9	1990	1892	95.1	1801	90.5	2011	1883	93.6	1771	88.1			
Vale of Glamorgan LA	1501	1441	96.0	1376	91.7	1192	79.4	1189	79.2	746	717	96.1	684	91.7	754	724	96.0	692	91.8			
Health Board Total	5503	5216	94.8	4948	89.9	4075	74.1	4067	73.9	2736	2609	95.4	2485	90.8	2765	2607	94.3	2463	89.1			
<u>Cwm Taf Morgannwg University HB</u>																						
Bridgend LA	1704	1625	95.4	1553	91.1	1505	88.3	1512	88.7	799	765	95.7	738	92.4	905	860	95.0	815	90.1			
Merthyr Tydfil LA	713	683	95.8	655	91.9	627	87.9	628	88.1	356	340	95.5	327	91.9	357	343	96.1	328	91.9			
Rhondda Cynon Taf LA	2865	2747	95.9	2636	92.0	2591	90.4	2586	90.3	1396	1342	96.1	1295	92.8	1468	1405	95.7	1341	91.3			
Health Board Total	5282	5055	95.7	4844	91.7	4723	89.4	4726	89.5	2551	2447	95.9	2360	92.5	2730	2608	95.5	2484	91.0			
<u>Hywel Dda University HB</u>																						
Cardemarthenshire LA	2010	1916	95.3	1863	92.7	1763	87.7	1762	87.7	979	944	96.4	914	93.4	1031	972	94.3	949	92.0			
Ceredigion LA	648	621	95.8	598	92.3	584	90.1	582	89.8	284	271	95.4	259	91.2	364	350	96.2	339	93.1			
Pembrokeshire LA	1236	1187	96.0	1125	91.0	1042	84.3	1034	83.7	607	585	96.4	549	90.4	629	602	95.7	576	91.6			
Health Board Total	3894	3724	95.6	3586	92.1	3389	87.0	3378	86.7	1870	1800	96.3	1722	92.1	2024	1924	95.1	1864	92.1			
<u>Powys Teaching HB</u>																						
Health Board Total	1358	1287	94.8	1219	89.8	1180	86.9	1189	87.6	655	624	95.3	597	91.1	703	663	94.3	622	88.5			
<u>Swansea Bay University HB</u>																						
Neath Port Talbot LA	1651	1576	95.5	1502	91.0	1506	91.2	1512	91.6	816	780	95.6	746	91.4	835	796	95.3	756	90.5			
Swansea LA	2525	2378	94.2	2279	90.3	2316	91.7	2334	92.4	1171	1105	94.4	1056	90.2	1354	1273	94.0	1223	90.3			
Health Board Total	4176	3954	94.7	3781	90.5	3822	91.5	3846	92.1	1987	1885	94.9	1802	90.7	2189	2069	94.5	1979	90.4			
Unknown	93	87	93.5	85	91.4	74	79.6	72	77.4	44	41	93.2	41	93.2	49	46	93.9	44	89.8			
Wales Total	34513	32965	95.5	31690	91.8	28976	84.0	29008	84.0	16792	16096	95.9	15493	92.3	17715	16867	95.2	16197	91.4			

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

² Timings of immunisation sessions vary between HBs and uptake will increase over the next quarter as more immunisation sessions take place.

Table 11. MMR, Td/IPV and MenACWY vaccine uptake in children in 2018-19 school year 10 reaching their 15th birthday between 01/09/18 and 31/08/19 and resident on 30/09/19, with breakdown of MMR1 and MMR2 coverage by sex.

Area	Resident children		MMR1		MMR2		Teenage 3 in 1 booster ¹		MenACWY		Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)			(%)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	
<u>Aneurin Bevan University HB</u>	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)		(n)	(n)	(%)	(n)	(%)		(n)	(n)	(%)	(n)	(%)	
Blaenau Gwent LA	754	742	98.4	724	96.0	670	88.9	669	88.7		374	368	98.4	358	95.7		380	374	98.4	366	96.3	
Caerphilly LA	2144	2092	97.6	2039	95.1	1804	84.1	1807	84.3		1017	989	97.2	970	95.4		1126	1102	97.9	1068	94.8	
Monmouthshire LA	1134	1071	94.4	1037	91.4	904	79.7	907	80.0		539	511	94.8	496	92.0		595	560	94.1	541	90.9	
Newport LA	1895	1798	94.9	1739	91.8	1523	80.4	1516	80.0		905	863	95.4	842	93.0		990	935	94.4	897	90.6	
Torfaen LA	1010	988	97.8	960	95.0	903	89.4	900	89.1		489	479	98.0	464	94.9		521	509	97.7	496	95.2	
Health Board Total	6937	6691	96.5	6499	93.7	5804	83.7	5799	83.6		3324	3210	96.6	3130	94.2		3612	3480	96.3	3368	93.2	
<u>Betsi Cadwaladr University HB</u>																						
Anglesey LA	732	702	95.9	686	93.7	611	83.5	613	83.7		347	333	96.0	326	93.9		385	369	95.8	360	93.5	
Conwy LA	1163	1114	95.8	1069	91.9	1015	87.3	1018	87.5		574	547	95.3	522	90.9		589	567	96.3	547	92.9	
Denbighshire LA	1079	1023	94.8	989	91.7	914	84.7	920	85.3		509	482	94.7	463	91.0		570	541	94.9	526	92.3	
Flintshire LA	1668	1606	96.3	1553	93.1	1416	84.9	1424	85.4		798	777	97.4	754	94.5		870	829	95.3	799	91.8	
Gwynedd LA	1157	1115	96.4	1095	94.6	1007	87.0	1003	86.7		528	512	97.0	501	94.9		629	603	95.9	594	94.4	
Wrexham LA	1434	1374	95.8	1347	93.9	1226	85.5	1234	86.1		689	665	96.5	650	94.3		745	709	95.2	697	93.6	
Health Board Total	7233	6934	95.9	6739	93.2	6189	85.6	6212	85.9		3445	3316	96.3	3216	93.4		3788	3618	95.5	3523	93.0	
<u>Cardiff and Vale University HB</u>																						
Cardiff LA	3780	3536	93.5	3338	88.3	2825	74.7	2819	74.6		1870	1763	94.3	1661	88.8		1910	1773	92.8	1677	87.8	
Vale of Glamorgan LA	1441	1370	95.1	1303	90.4	1194	82.9	1194	82.9		742	704	94.9	670	90.3		699	666	95.3	633	90.6	
Health Board Total	5221	4906	94.0	4641	88.9	4019	77.0	4013	76.9		2612	2467	94.4	2331	89.2		2609	2439	93.5	2310	88.5	
<u>Cwm Taf Morgannwg University HB</u>																						
Bridgend LA	1592	1520	95.5	1435	90.1	1342	84.3	1353	85.0		809	782	96.7	745	92.1		783	738	94.3	690	88.1	
Merthyr Tydfil LA	664	624	94.0	597	89.9	583	87.8	587	88.4		316	292	92.4	278	88.0		347	332	95.7	319	91.9	
Rhondda Cynon Taf LA	2670	2553	95.6	2467	92.4	2463	92.2	2470	92.5		1313	1261	96.0	1218	92.8		1357	1292	95.2	1249	92.0	
Health Board Total	4926	4697	95.4	4499	91.3	4388	89.1	4410	89.5		2438	2335	95.8	2241	91.9		2487	2362	95.0	2258	90.8	
<u>Hywel Dda University HB</u>																						
Cardemarthenshire LA	1996	1906	95.5	1840	92.2	1762	88.3	1763	88.3		972	930	95.7	895	92.1		1024	976	95.3	945	92.3	
Ceredigion LA	674	645	95.7	628	93.2	603	89.5	599	88.9		328	315	96.0	306	93.3		345	330	95.7	322	93.3	
Pembrokeshire LA	1265	1195	94.5	1146	90.6	1055	83.4	1056	83.5		632	599	94.8	576	91.1		633	596	94.2	570	90.0	
Health Board Total	3935	3746	95.2	3614	91.8	3420	86.9	3418	86.9		1932	1844	95.4	1777	92.0		2002	1902	95.0	1837	91.8	
<u>Powys Teaching HB</u>																						
Health Board Total	1331	1250	93.9	1194	89.7	1188	89.3	1199	90.1		655	617	94.2	593	90.5		676	633	93.6	601	88.9	
<u>Swansea Bay University HB</u>																						
Neath Port Talbot LA	1499	1433	95.6	1371	91.5	1349	90.0	1369	91.3		738	716	97.0	683	92.5		761	717	94.2	688	90.4	
Swansea LA	2567	2438	95.0	2337	91.0	2336	91.0	2355	91.7		1216	1160	95.4	1110	91.3		1351	1278	94.6	1227	90.8	
Health Board Total	4066	3871	95.2	3708	91.2	3685	90.6	3724	91.6		1954	1876	96.0	1793	91.8		2112	1995	94.5	1915	90.7	
Unknown	108	100	92.6	94	87.0	89	82.4	89	82.4		46	42	91.3	39	84.8		62	58	93.5	55	88.7	
Wales Total	33757	32195	95.4	30988	91.8	28782	85.3	28864	85.5		16406	15707	95.7	15120	92.2		17348	16487	95.0	15867	91.5	

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

Table 12. MMR, Td/IPV and MenACWY vaccine uptake in children in 2018-19 school year 11 reaching their 16th birthday between 01/09/18 and 31/08/19 and resident on 30/09/19, with breakdown of MMR1 and MMR2 coverage by sex

Area	Resident children		MMR1		MMR2		Teenage 3 in 1 booster ¹		MenACWY		Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(n)	(%)	(n)	(%)	
<u>Aneurin Bevan University HB</u>																						
Blaenau Gwent LA	683	662	96.9	641	93.9	590	86.4	593	86.8		323	312	96.6	302	93.5		360	350	97.2	339	94.2	
Caerphilly LA	2089	2022	96.8	1943	93.0	1779	85.2	1775	85.0		980	946	96.5	916	93.5		1108	1076	97.1	1027	92.7	
Monmouthshire LA	1099	1014	92.3	970	88.3	884	80.4	896	81.5		544	504	92.6	476	87.5		555	510	91.9	494	89.0	
Newport LA	1874	1744	93.1	1655	88.3	1496	79.8	1488	79.4		903	855	94.7	819	90.7		968	889	91.8	836	86.4	
Torfaen LA	979	934	95.4	909	92.8	829	84.7	830	84.8		485	467	96.3	455	93.8		494	467	94.5	454	91.9	
Health Board Total	6724	6376	94.8	6118	91.0	5578	83.0	5582	83.0		3235	3084	95.3	2968	91.7		3485	3292	94.5	3150	90.4	
<u>Betsi Cadwaladr University HB</u>																						
Anglesey LA	703	674	95.9	654	93.0	597	84.9	597	84.9		338	330	97.6	320	94.7		365	344	94.2	334	91.5	
Conwy LA	1162	1102	94.8	1064	91.6	1060	91.2	1061	91.3		545	520	95.4	502	92.1		614	579	94.3	559	91.0	
Denbighshire LA	1041	972	93.4	930	89.3	875	84.1	885	85.0		488	453	92.8	436	89.3		553	519	93.9	494	89.3	
Flintshire LA	1502	1453	96.7	1397	93.0	1304	86.8	1303	86.8		723	706	97.6	680	94.1		779	747	95.9	717	92.0	
Gwynedd LA	1175	1144	97.4	1122	95.5	1037	88.3	1038	88.3		555	540	97.3	533	96.0		620	604	97.4	589	95.0	
Wrexham LA	1424	1365	95.9	1334	93.7	1212	85.1	1219	85.6		672	647	96.3	631	93.9		752	718	95.5	703	93.5	
Health Board Total	7007	6710	95.8	6501	92.8	6085	86.8	6103	87.1		3321	3196	96.2	3102	93.4		3683	3511	95.3	3396	92.2	
<u>Cardiff and Vale University HB</u>																						
Cardiff LA	3787	3474	91.7	3251	85.8	2888	76.3	2899	76.6		1849	1717	92.9	1616	87.4		1938	1757	90.7	1635	84.4	
Vale of Glamorgan LA	1493	1420	95.1	1343	90.0	1232	82.5	1232	82.5		705	668	94.8	627	88.9		788	752	95.4	716	90.9	
Health Board Total	5280	4894	92.7	4594	87.0	4120	78.0	4131	78.2		2554	2385	93.4	2243	87.8		2726	2509	92.0	2351	86.2	
<u>Cwm Taf Morgannwg University HB</u>																						
Bridgend LA	1562	1477	94.6	1388	88.9	1386	88.7	1402	89.8		782	747	95.5	709	90.7		780	730	93.6	679	87.1	
Merthyr Tydfil LA	670	626	93.4	596	89.0	605	90.3	606	90.4		333	316	94.9	304	91.3		337	310	92.0	292	86.6	
Rhondda Cynon Taf LA	2815	2676	95.1	2544	90.4	2535	90.1	2545	90.4		1391	1331	95.7	1277	91.8		1424	1345	94.5	1267	89.0	
Health Board Total	5047	4779	94.7	4528	89.7	4526	89.7	4553	90.2		2506	2394	95.5	2290	91.4		2541	2385	93.9	2238	88.1	
<u>Hywel Dda University HB</u>																						
Cardemarthenshire LA	2049	1921	93.8	1868	91.2	1821	88.9	1820	88.8		1003	943	94.0	922	91.9		1046	978	93.5	946	90.4	
Ceredigion LA	620	589	95.0	566	91.3	538	86.8	535	86.3		297	281	94.6	270	90.9		323	308	95.4	296	91.6	
Pembrokeshire LA	1225	1161	94.8	1097	89.6	986	80.5	992	81.0		619	593	95.8	562	90.8		606	568	93.7	535	88.3	
Health Board Total	3894	3671	94.3	3531	90.7	3345	85.9	3347	86.0		1919	1817	94.7	1754	91.4		1975	1854	93.9	1777	90.0	
<u>Powys Teaching HB</u>																						
Health Board Total	1322	1232	93.2	1148	86.8	1122	84.9	1132	85.6		656	616	93.9	575	87.7		666	616	92.5	573	86.0	
<u>Swansea Bay University HB</u>																						
Neath Port Talbot LA	1432	1381	96.4	1306	91.2	1264	88.3	1285	89.7		702	682	97.2	655	93.3		730	699	95.8	651	89.2	
Swansea LA	2592	2388	92.1	2250	86.8	2300	88.7	2306	89.0		1232	1130	91.7	1074	87.2		1360	1258	92.5	1176	86.5	
Health Board Total	4024	3769	93.7	3556	88.4	3564	88.6	3591	89.2		1934	1812	93.7	1729	89.4		2090	1957	93.6	1827	87.4	
Unknown	89	78	87.6	75	84.3	74	83.1	73	82.0		43	41	95.3	38	88.4		46	37	80.4	37	80.4	
Wales Total	33387	31509	94.4	30051	90.0	28414	85.1	28512	85.4		16168	15345	94.9	14699	90.9		17212	16161	93.9	15349	89.2	

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

Table 13. MMR, Td/IPV and MenACWY vaccine uptake in children reaching their 16th birthday between 01/07/19 and 30/09/19 and resident on 30/09/19, with breakdown of MMR1 and MMR2 coverage by sex

Area	Resident children					Teenage 3 in 1 booster ¹				MenACWY	Resident girls					Resident boys				
	(n)	MMR1 (n)	MMR1 (%)	MMR2 (n)	MMR2 (%)	(n)	(%)	(n)	(%)		(n)	MMR1 (girls) (n)	MMR1 (girls) (%)	MMR2 (girls) (n)	MMR2 (girls) (%)	(n)	MMR1 (boys) (n)	MMR1 (boys) (%)	MMR2 (boys) (n)	MMR2 (boys) (%)
<u>Aneurin Bevan University HB</u>	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)		(n)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)
Blaenau Gwent LA	187	183	97.9	177	94.7	162	86.6	163	87.2		80	79	98.8	76	95.0	107	104	97.2	101	94.4
Caerphilly LA	539	524	97.2	508	94.2	459	85.2	455	84.4		267	257	96.3	253	94.8	272	267	98.2	255	93.8
Monmouthshire LA	296	279	94.3	266	89.9	234	79.1	240	81.1		160	151	94.4	144	90.0	136	128	94.1	122	89.7
Newport LA	478	452	94.6	430	90.0	392	82.0	386	80.8		230	224	97.4	215	93.5	248	228	91.9	215	86.7
Torfaen LA	273	262	96.0	253	92.7	234	85.7	235	86.1		139	134	96.4	129	92.8	134	128	95.5	124	92.5
Health Board Total	1773	1700	95.9	1634	92.2	1481	83.5	1479	83.4		876	845	96.5	817	93.3	897	855	95.3	817	91.1
<u>Betsi Cadwaladr University HB</u>																				
Anglesey LA	196	187	95.4	185	94.4	163	83.2	164	83.7		98	94	95.9	94	95.9	98	93	94.9	91	92.9
Conwy LA	316	304	96.2	291	92.1	281	88.9	281	88.9		133	129	97.0	124	93.2	181	173	95.6	165	91.2
Denbighshire LA	262	247	94.3	231	88.2	226	86.3	226	86.3		135	128	94.8	117	86.7	127	119	93.7	114	89.8
Flintshire LA	465	452	97.2	440	94.6	393	84.5	397	85.4		222	219	98.6	213	95.9	243	233	95.9	227	93.4
Gwynedd LA	305	300	98.4	291	95.4	259	84.9	262	85.9		142	142	100.0	139	97.9	163	158	96.9	152	93.3
Wrexham LA	393	373	94.9	368	93.6	335	85.2	337	85.8		193	187	96.9	182	94.3	200	186	93.0	186	93.0
Health Board Total	1937	1863	96.2	1806	93.2	1657	85.5	1667	86.1		923	899	97.4	869	94.1	1012	962	95.1	935	92.4
<u>Cardiff and Vale University HB</u>																				
Cardiff LA	1013	947	93.5	897	88.5	768	75.8	763	75.3		525	497	94.7	475	90.5	488	450	92.2	422	86.5
Vale of Glamorgan LA	391	378	96.7	359	91.8	318	81.3	318	81.3		209	200	95.7	192	91.9	182	178	97.8	167	91.8
Health Board Total	1404	1325	94.4	1256	89.5	1086	77.4	1081	77.0		734	697	95.0	667	90.9	670	628	93.7	589	87.9
<u>Cwm Taf Morgannwg University HB</u>																				
Bridgend LA	394	371	94.2	349	88.6	346	87.8	349	88.6		195	184	94.4	173	88.7	199	187	94.0	176	88.4
Merthyr Tydfil LA	157	145	92.4	138	87.9	138	87.9	139	88.5		82	77	93.9	72	87.8	75	68	90.7	66	88.0
Rhondda Cynon Taf LA	733	704	96.0	678	92.5	664	90.6	669	91.3		347	335	96.5	325	93.7	386	369	95.6	353	91.5
Health Board Total	1284	1220	95.0	1165	90.7	1148	89.4	1157	90.1		624	596	95.5	570	91.3	660	624	94.5	595	90.2
<u>Hywel Dda University HB</u>																				
Carmarthenshire LA	533	509	95.5	495	92.9	476	89.3	476	89.3		277	264	95.3	255	92.1	256	245	95.7	240	93.8
Ceredigion LA	158	152	96.2	145	91.8	136	86.1	136	86.1		81	77	95.1	74	91.4	77	75	97.4	71	92.2
Pembrokeshire LA	327	312	95.4	297	90.8	262	80.1	262	80.1		171	163	95.3	157	91.8	156	149	95.5	140	89.7
Health Board Total	1018	973	95.6	937	92.0	874	85.9	874	85.9		529	504	95.3	486	91.9	489	469	95.9	451	92.2
<u>Powys Teaching HB</u>																				
Health Board Total	359	340	94.7	320	89.1	302	84.1	309	86.1		183	173	94.5	162	88.5	176	167	94.9	158	89.8
<u>Swansea Bay University HB</u>																				
Neath Port Talbot LA	393	369	93.9	348	88.5	340	86.5	348	88.5		193	186	96.4	176	91.2	200	183	91.5	172	86.0
Swansea LA	724	672	92.8	636	87.8	650	89.8	653	90.2		351	330	94.0	316	90.0	373	342	91.7	320	85.8
Health Board Total	1117	1041	93.2	984	88.1	990	88.6	1001	89.6		544	516	94.9	492	90.4	573	525	91.6	492	85.9
Unknown	34	33	97.1	30	88.2	28	82.4	28	82.4		15	15	100.0	12	80.0	19	18	94.7	18	94.7
Wales Total	8926	8495	95.2	8132	91.1	7566	84.8	7596	85.1		4428	4245	95.9	4075	92.0	4496	4248	94.5	4055	90.2

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

Table 14. Uptake of BCG immunisation in children reaching their 1st, 2nd, 5th and 16th birthdays between 01/07/19 and 30/09/19 and resident on 30/09/19.¹

Area	1 yr			2 yrs			5 yrs			16 yrs		
	Resident children	BCG Immunised		Resident children	BCG Immunised		Resident children	BCG Immunised		Resident children	BCG Immunised	
<u>Aneurin Bevan University HB</u>	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)
Blaenau Gwent LA	180	2	1.1	213	4	1.9	194	6	3.1	187	5	2.7
Caerphilly LA	484	10	2.1	524	9	1.7	544	10	1.8	539	8	1.5
Monmouthshire LA	190	6	3.2	207	5	2.4	220	9	4.1	296	10	3.4
Newport LA	496	68	13.7	526	76	14.4	571	93	16.3	478	47	9.8
Torfaen LA	280	4	1.4	245	10	4.1	274	2	0.7	273	3	1.1
Health Board Total	1630	90	5.5	1715	104	6.1	1803	120	6.7	1773	73	4.1
<u>Betsi Cadwaladr University HB</u>												
Anglesey LA	164	0	0.0	176	5	2.8	186	6	3.2	196	5	2.6
Conwy LA	241	8	3.3	257	13	5.1	304	12	3.9	316	18	5.7
Denbighshire LA	200	6	3.0	255	11	4.3	294	20	6.8	262	14	5.3
Flintshire LA	401	12	3.0	409	15	3.7	413	21	5.1	465	17	3.7
Gwynedd LA	294	19	6.5	319	11	3.4	319	15	4.7	305	8	2.6
Wrexham LA	369	24	6.5	385	32	8.3	431	38	8.8	393	17	4.3
Health Board Total	1669	69	4.1	1801	87	4.8	1947	112	5.8	1937	79	4.1
<u>Cardiff and Vale University HB</u>												
Cardiff LA	1084	39	3.6	1077	225	20.9	1129	261	23.1	1013	186	18.4
Vale of Glamorgan LA	338	4	1.2	356	15	4.2	384	21	5.5	391	13	3.3
Health Board Total	1422	43	3.0	1433	240	16.7	1513	282	18.6	1404	199	14.2
<u>Cwm Taf Morgannwg Univeristy HB</u>												
Bridgend LA	391	6	1.5	414	21	5.1	406	10	2.5	394	13	3.3
Merthyr Tydfil LA	190	12	6.3	189	7	3.7	210	9	4.3	157	4	2.5
Rhondda Cynon Taf LA	680	6	0.9	691	29	4.2	742	27	3.6	733	13	1.8
Health Board Total	1261	24	1.9	1294	57	4.4	1358	46	3.4	1284	30	2.3
<u>Hywel Dda University HB</u>												
Carmarthenshire LA	468	14	3.0	500	15	3.0	488	10	2.0	533	16	3.0
Ceredigion LA	130	4	3.1	152	8	5.3	173	8	4.6	158	5	3.2
Pembrokeshire LA	274	5	1.8	310	6	1.9	343	12	3.5	327	7	2.1
Health Board Total	872	23	2.6	962	29	3.0	1004	30	3.0	1018	28	2.8
<u>Powys Teaching Health Board</u>												
Health Board Total	308	2	0.6	304	7	2.3	284	7	2.5	359	10	2.8
<u>Swansea Bay University HB</u>												
Neath Port Talbot LA	356	12	3.4	386	15	3.9	401	8	2.0	393	9	2.3
Swansea LA	625	69	11.0	626	73	11.7	659	72	10.9	724	43	5.9
Health Board Total	981	81	8.3	1012	88	8.7	1060	80	7.5	1117	52	4.7
Unknown	0	0	0.0	6	0	0.0	7	1	14.3	34	2	5.9
Wales Total	8148	332	4.1	8527	612	7.2	8976	678	7.6	8926	473	5.3

¹ 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 15. Uptake of hepatitis B immunisation in children, reaching their 1st, 2nd, and 5th birthdays during between 01/07/19 and 30/09/19 and resident on 30/09/19, and percentage who are recorded as completing doses 1 to 4.¹

Area	1yr					2yrs						5yrs					
	Resident children	Babies at risk of perinatal infection	1 dose	2 doses	3 doses	Resident children	Babies at risk of perinatal infection	1 dose	2 doses	3 doses	4 doses	Resident children	Babies at risk of perinatal infection	1 dose	2 dose	3 doses	4 doses
	(n)	(n)	(%)	(%)	(%)	(n)	(n)	(%)	(%)	(%)	(%)	(n)	(n)	(%)	(%)	(%)	(%)
Aneurin Bevan UHB	1630	2	100.0	100.0	100.0	1715	1	100.0	100.0	100.0	-	1803	0	-	-	-	-
Betsi Cadwaladr UHB	1669	1	100.0	100.0	100.0	1801	2	100.0	100.0	100.0	100.0	1947	1	100.0	100.0	100.0	100.0
Cardiff and Vale UHB	1422	6	100.0	100.0	100.0	1433	8	100.0	87.5	75.0	37.5	1513	3	100.0	100.0	100.0	100.0
Cwm Taf Morgannwg UHB	1261	0	-	-	-	1294	3	100.0	100.0	100.0	100.0	1358	0	-	-	-	-
Hywel Dda UHB	872	0	-	-	-	962	1	100.0	100.0	100.0	100.0	1004	0	-	-	-	-
Powys Teaching HB	308	0	-	-	-	304	0	-	-	-	-	284	0	-	-	-	-
Swansea Bay UHB	981	2	100.0	100.0	100.0	1012	1	100.0	100.0	100.0	100.0	1060	1	100.0	100.0	100.0	100.0
Unknown	5	0	-	-	-	6	0	-	-	-	-	7	0	-	-	-	-
Wales Total	8148	11	100.0	100.0	100.0	8527	16	100.0	93.8	87.5	62.5	8976	5	100.0	100.0	100.0	100.0

¹Data reflects immunisations given and recorded on the Public Health Wales All Wales Neonatal Hepatitis B database of babies born to hepatitis B positive mothers. One year olds in this table would have been eligible for the new Hepatitis B containing "6 in 1" vaccine as part of the routine childhood immunisation schedule. The doses here for one year olds refer to the monovalent dose given at birth (dose 1), monovalent dose given at one month (dose 2) and dose due at two months (dose 3, now part of the "6 in 1" vaccine).