

Vaccine Uptake in Children in Wales

April to June 2019

COVER 131: Wales September 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 six of the seven Health Boards (HB) and in 19 of 22 Local Authority (LA) areas.
- Uptake of the complete three-dose course of MenB vaccine in two year olds was 94.1% this quarter. Three HBs and eleven LA areas had an uptake above 95%.
- Uptake of the first dose of MMR vaccine in two year old children was 94.7% this quarter. Four HBs and 14 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 87.5% this quarter and was 90.6% in five year olds.
- Uptake of one dose of HPV vaccine in 2018-19 school year 8 girls (12-13 year olds) is currently 85.8%. In girls in the 2018-19 school year 9 (13-14 year olds), uptake of two doses is currently 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, although data entry may not be.
- Uptake of routine MenACWY vaccine in the 2018-19 school year 9 cohort is currently 83.9%. Coverage of the MenACWY vaccine in the 2018-19 school year 10 cohort was 85.4%.
- Uptake of the Td/IPV teenage booster in the 2018-19 school year 9 cohort is currently 83.8%. Coverage of the Td/IPV teenage booster in the 2018-19 school year 10 was 85.2%.
- Coverage of one dose of MMR vaccine in the 2018-19 school year 10 (age 14-15 years) was 95.3%, 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 June 2019 and reaching their first, second, fourth, fifth and 16th birthdays during the quarter 01/04/2019 to 30/06/2019. 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 the children referred to in this report, these immunisations would have been given 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, have recently carried out a COVER data quality assurance project. 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 95.8% this quarter. Uptake ranged by HB from 94.0% (Cardiff and Vale) to 97.9% (Cwm Taf Morgannwg and Powys) and by LA from 92.9% (Pembrokeshire) to 97.9% (Monmouthshire). Six of the seven HBs and 19 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 remained stable at 96.0% this quarter compared to 95.4% last quarter, and ranged by LA from 93.6% (Pembrokeshire) to 98.2% (Rhondda Cynon Taf). Six of the seven HBs and 19 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 95.6% this quarter. Uptake in HBs ranged from 92.9% (Cardiff and Vale) to 97.1% (Aneurin Bevan) and ranged by LA from 92.7% (Cardiff) to 97.9% (Caerphilly and Rhondda Cynon Taf) (Figure 3, Tables 2 and 3).
4. Uptake of two doses of rotavirus vaccine in children reaching their first birthday increased to 94.0% this quarter. Uptake in HBs ranged from 92.4% (Cardiff and Vale) to 96.4% (Cwm Taf Morgannwg) and ranged by LA from 90.4% (Ceredigion) to 97.4% (Rhondda Cynon Taf) (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) remained stable at 94.7% this quarter. Uptake ranged by HB from 92.2% (Hywel Dda) to 96.2% (Powys) and by LA area from 90.1% (Pembrokeshire) to 97.8% (Merthyr Tydfil). Four HBs and 14 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 94.1 this quarter compared to 94.2% last quarter. Uptake ranged by HB from 91.1% (Cardiff and Vale) to 95.8% (Cwm Taf Morgannwg) and by LA from 89.4% (Cardiff) to 97.8% (Merthyr Tydfil). Three of the seven HBs and 11 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 was stable at 95.0% this quarter compared to 94.9% last quarter. Uptake ranged by HB from 92.8% (Hywel Dda) to 96.3% (Cwm Taf Morgannwg) and ranged by LA from 90.1% (Pembrokeshire) to 97.8% (Merthyr Tydfil). Four HBs and 15 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 remained stable at 94.4% this quarter compared to 94.5% last quarter. Uptake ranged by HB from 92.1% (Hywel Dda) to 95.9% (Cwm Taf Morgannwg), and ranged by LA from 89.8% (Pembrokeshire) to 97.2% (Merthyr Tydfil). Four HBs and 12 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 89.3%
 - The Hib/MenC booster was 95.3%
 - Two doses of MMR was 88.7%

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.

The proportion of children who were up to date with all these routine immunisations at four years of age was 87.5%. This ranged by HB from 85.1% (Hywel Dda) to 91.6% (Powys) and by LA from 82.0% (Newport) to 93.5% (Anglesey) (Figures 4 and 5, Tables 1, 2 and 5).

10. The proportion of children who were up to date with routine immunisations by their fifth birthday remained stable at 90.6% this quarter. This ranged by HB from 88.4% (Aneurin Bevan) to 92.9% (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 90.7% (Aneurin Bevan) to 94.2% (Betsi Cadwaladr) and by LA from 87.9% (Newport) to 96.5% (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 92.7% this quarter, ranging by HB from 91.4% (Aneurin Bevan) to 94.8% (Betsi Cadwaladr) and by LA from 88.7% (Newport) to 96.5% (Anglesey). Two 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 89.8% 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 84.9% (Table 8).
14. Current uptake of the MenACWY vaccine in the 2018-19 routine school year 9 cohort is 83.9%, 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 85.4%, 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 83.8%. 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% (Cardiff and Vale and 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 92.2% (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 85.2%. Coverage ranged by HB from 77.0% (Cardiff and Vale) to 90.7% (Swansea Bay). Coverage of two doses of MMR in this year group was 91.8% and coverage of one dose was 95.3%. 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 92.1% (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 77.8% (Cardiff and Vale) to 89.7% (Cwm Taf). 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 86.7% (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 April 2019 and 30th June 2019) was 89.9%, whilst coverage of one dose of MMR was 94.0%. Coverage of a full course of immunisation against rubella (two doses of MMR) in 16 year old girls was 90.6%. 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).

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

- 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 5.2%, 5.9%, 7.9% and 4.9% of children reaching their first, second, fifth and 16th birthdays (respectively) during quarter two of 2019. This quarter Newport LA had the highest proportion of children given BCG by one year of age (20.0%) and Swansea LA by two years of age (15.5%).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 84.6% and uptake of four doses at their fifth birthday was 92.9%. 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

This is the fourth quarterly report to include one year old children eligible for the “6 in 1” (DTaP/IPV/Hib/HepB) vaccine which replaced the “5 in 1” (DTaP/IPV/Hib) vaccine in August 2017. Uptake of the complete three-dose course of “6 in 1” vaccine remains stable and 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 95% or slightly below 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.

In August 2019, the World Health Organisation European Regional Verification Commission for Measles and Rubella Elimination (RVC) announced its conclusion that transmission of measles virus has been re-established in the UK [1]. The decision was made on the basis of data submitted from England, Wales, Scotland and Northern Ireland up to the end of 2018 and the RVC concluded that there was evidence of continuous transmission of indigenous or imported measles virus that persisted for a period of 12 months or more in a defined geographical area. During 2018 the UK saw 1,250 cases of measles (confirmed and clinically compatible cases), the majority of which occurred in England. There were 20 confirmed cases of measles in Wales in 2018, 15 of whom were associated with an outbreak in early 2018. Although case totals thus far in 2019 are lower than for 2018, significant outbreaks continue in a number of European countries [2] with the potential for cases to be imported to the UK.

Currently MMR vaccine uptake in Wales does not reach the 95% target for a full two dose course by the fifth birthday necessary to maintain elimination of measles. Uptake in school age children is also below the 95% target, and analysis suggests young people born between 1995 and 2004, currently aged 16 to 24 years, are most likely to be susceptible.

Follow-up of those who have not received scheduled MMR on time remains key in eliminating measles. 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 Wales Measles and Rubella Elimination Task Group Action Plan 2019-2021 will be published shortly, and contains recommendations and actions to ensure continued elimination of measles and rubella in Wales, and control of mumps.

References

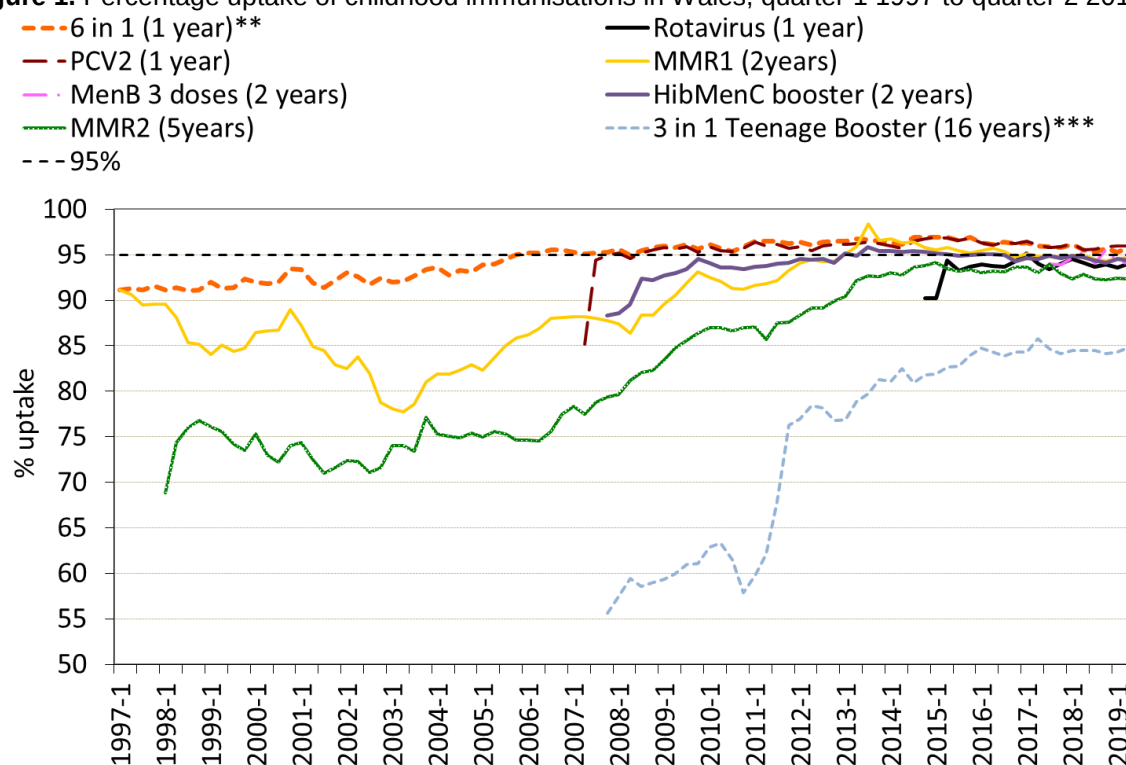
1. World Health Organisation Regional Office for Europe. European Region Loses Ground in Effort to Eliminate Measles. August 2019. Available from: <http://www.euro.who.int/en/media-centre/sections/press-releases/2019/european-region-loses-ground-in-effort-to-eliminate-measles>
2. European Centre for Disease Control. Monthly measles and rubella monitoring report. September 2019. Available from: <https://www.ecdc.europa.eu/sites/portal/files/documents/measles-monthly-report-september-2019.pdf>

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

Data for this report was provided by NHS Wales Informatics Service from the National Community Child Health Database (NCCHD). The data was sourced from Community Child Health databases maintained by local Child Health Office staff in Trusts throughout Wales based on regular returns from 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 2 2019*.

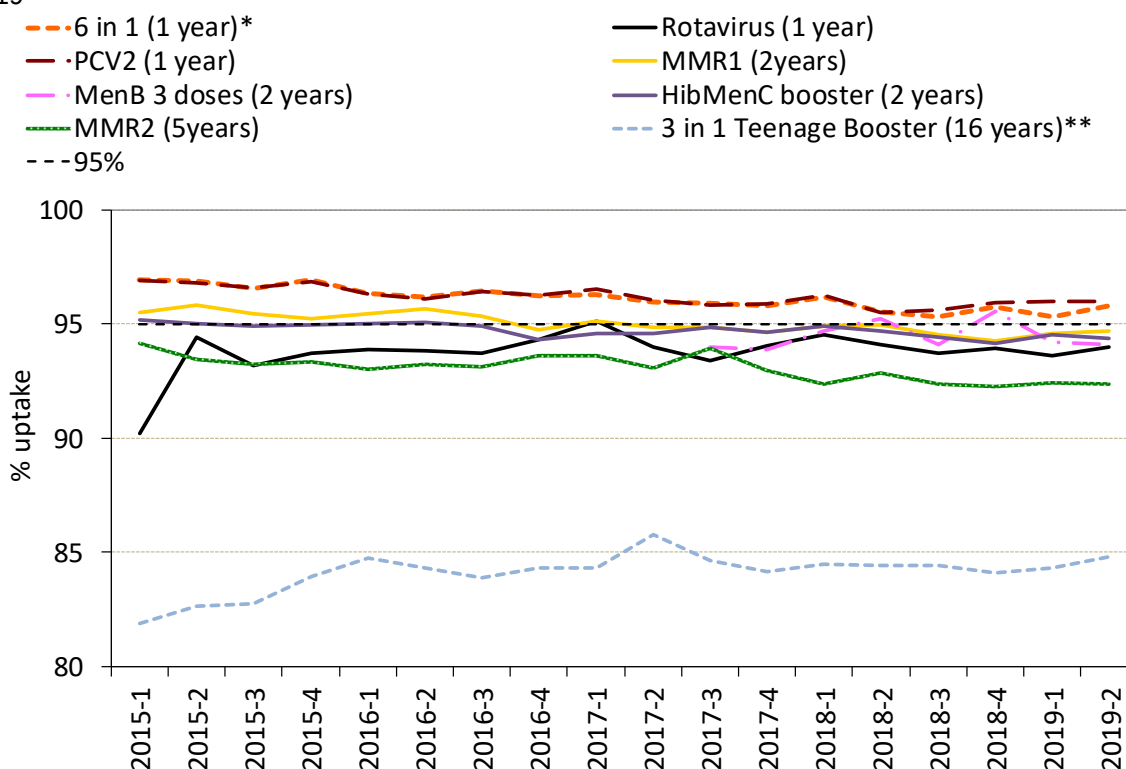


*Uptake data for quarter 3 2014 to quarter 4 2014 presented here are based on estimates calculated in August 2015, rather than published data, due to data quality problems affecting reported uptake of some immunisations in reports published during this period.

**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 1 2015 to quarter 2 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 01/04/19 and 30/06/19 and resident on 30/06/19.

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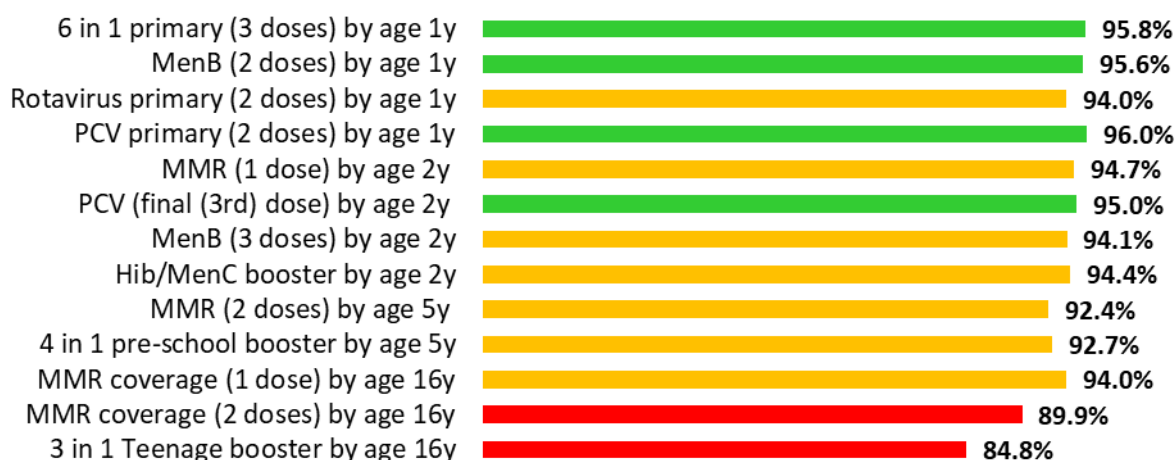


Figure 4. Percentage uptake of resident children reaching their 4th birthday between 01/04/19 and 30/06/19 and are up to date with all scheduled vaccines⁷ by health board.

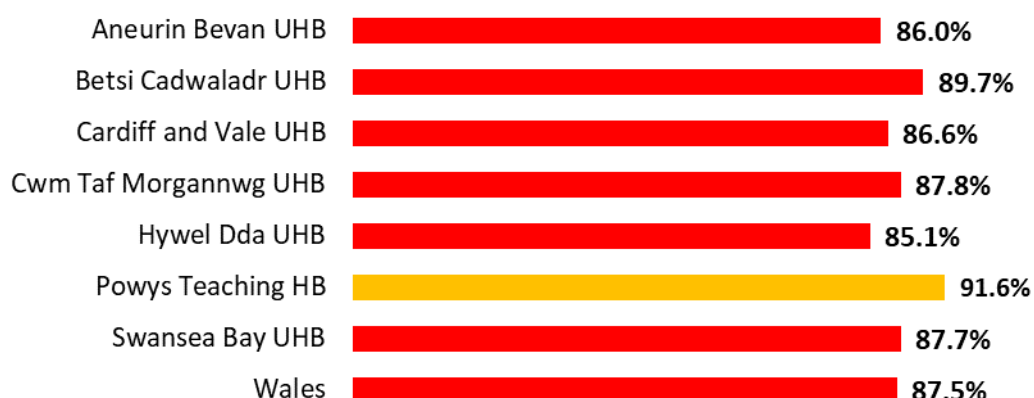
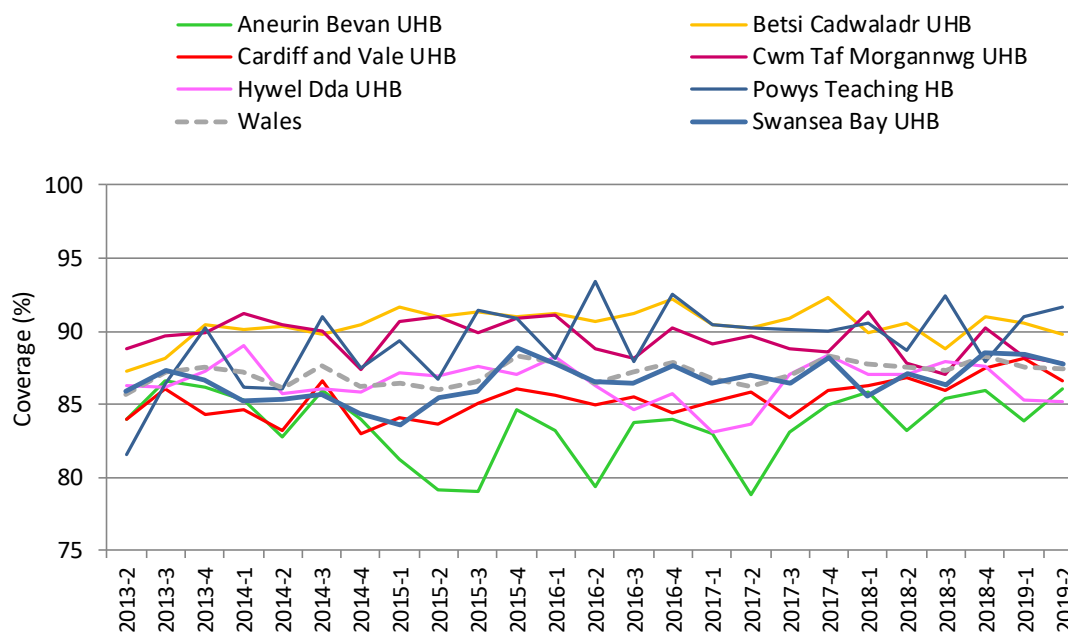


Table 1. Percentages of resident children reaching their 4th birthday during quarter 2 2018 to quarter 2 2019 who are up to date with all scheduled vaccines⁷, by Health Board.*

Area	2018-2	2018-3	2018-4	2019-1	2019-2
Aneurin Bevan UHB	83.2	85.4	85.9	83.9	86.0
Betsi Cadwaladr UHB	90.5	88.8	91.0	90.6	89.7
Cardiff and Vale UHB	86.9	86.0	87.5	88.2	86.6
Cwm Taf Morgannwg UHB	87.8	87.0	90.2	88.3	87.8
Hywel Dda UHB	87.0	87.9	87.6	85.3	85.1
Powys Teaching HB	88.7	92.4	88.0	91.0	91.6
Swansea Bay UHB	89.1	87.7	88.6	88.4	87.7
Wales	87.5	87.3	88.3	87.6	87.5

* Uptake data from 2018 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 5. Trends in the percentages of children reaching their 4th birthday during quarter 2 2013 to quarter 2 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 01/04/19 and 30/06/19.

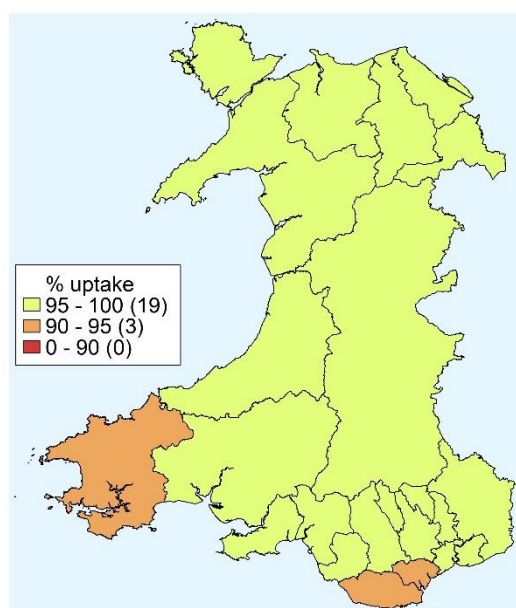


Figure 7. Uptake of at least one dose of MMR immunisation in Welsh Local Authority areas in children reaching their 2nd birthday between 01/04/19 and 30/06/19.

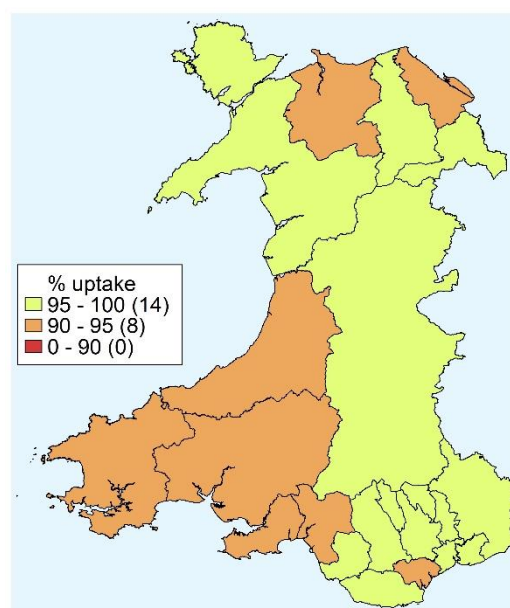


Figure 8. Uptake of two doses of MMR vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/04/19 and 30/06/19.

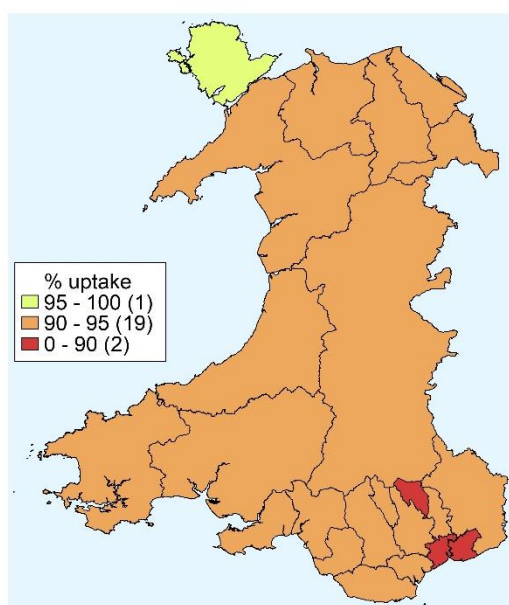


Figure 9. Uptake of “4 in 1” vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/04/19 and 30/06/19.

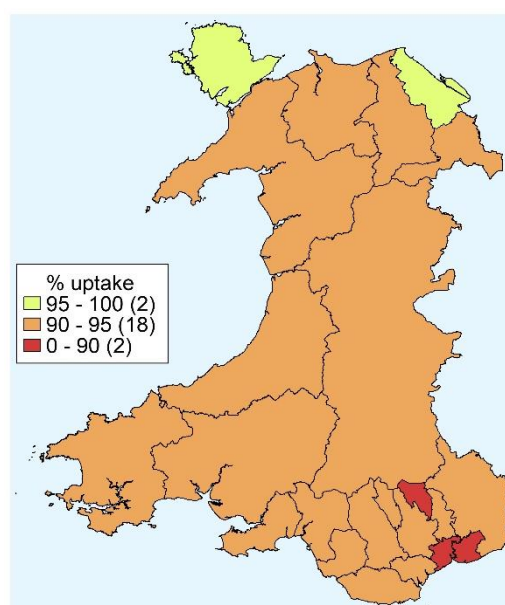


Table 2. Summary table with uptake of selected immunisations in resident children reaching their 1st, 2nd, 4th, 5th and 16th birthday between 01/04/19 and 30/06/19 and resident on 30/06/19.

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	PCVF 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	169	97.6	97.6	97.6	93.5	168	96.4	95.8	95.8	94.6	173	86.1	185	88.6	89.2	180	97.8	92.2	89.4	88.3
Caerphilly LA	466	97.0	97.9	97.6	93.1	495	96.0	95.8	95.8	95.8	500	88.2	502	93.2	93.6	510	97.8	93.7	86.7	86.1
Monmouthshire LA	189	97.9	97.4	97.9	95.2	210	95.7	96.2	96.7	96.2	226	88.5	205	93.2	94.6	284	90.5	86.6	83.1	82.0
Newport LA	439	95.2	96.1	95.9	92.3	498	95.0	95.2	93.8	94.4	501	82.0	512	87.9	88.7	480	91.3	85.4	74.6	74.6
Torfaen LA	234	96.6	96.6	97.0	94.4	272	96.0	96.7	96.3	96.0	290	87.2	256	90.6	91.4	248	95.2	92.7	85.1	85.5
Health Board Total	1497	96.6	97.1	97.1	93.4	1643	95.7	95.8	95.4	95.3	1690	86.0	1660	90.7	91.4	1702	94.4	89.9	82.7	82.3
Betsi Cadwaladr UHB																				
Anglesey LA	174	95.4	96.0	96.0	92.5	165	95.8	95.8	96.4	95.8	155	93.5	201	96.5	96.5	182	95.6	92.3	82.4	82.4
Conwy LA	280	95.4	95.0	95.7	93.6	258	91.9	91.9	91.5	91.1	275	85.1	294	94.2	94.9	266	95.1	91.7	91.4	91.4
Denbighshire LA	244	97.5	97.1	97.1	95.5	244	97.1	97.5	97.1	97.1	283	92.2	271	93.0	93.4	254	94.9	93.3	86.6	85.0
Flintshire LA	365	95.6	95.9	95.9	94.5	410	94.9	95.1	94.9	95.1	403	88.6	420	94.0	95.0	379	96.3	91.6	85.5	86.0
Gwynedd LA	277	96.0	95.7	95.7	92.4	259	95.8	96.1	94.6	94.2	265	89.4	293	93.9	94.5	318	97.5	95.3	89.6	89.9
Wrexham LA	357	95.5	95.5	96.1	93.6	412	96.6	96.8	96.4	96.6	402	91.0	385	94.3	94.8	350	93.7	91.4	84.0	83.1
Health Board Total	1697	95.9	95.8	96.1	93.8	1748	95.4	95.6	95.1	95.1	1783	89.7	1864	94.2	94.8	1749	95.5	92.6	86.7	86.4
Cardiff and Vale UHB																				
Cardiff LA	966	93.8	92.7	94.1	91.8	992	92.5	92.1	89.4	91.2	1053	85.8	1063	92.2	91.7	962	91.7	86.4	75.2	74.3
Vale of Glamorgan LA	344	94.8	93.6	94.2	94.2	368	95.7	96.7	95.7	96.2	383	89.0	343	94.5	94.8	380	95.3	89.7	82.9	83.4
Health Board Total	1310	94.0	92.9	94.1	92.4	1360	93.4	93.4	91.1	92.6	1436	86.6	1406	92.7	92.5	1342	92.7	87.3	77.3	76.9
Cwm Taf Morgannwg UHB																				
Bridgend LA	361	95.8	95.0	95.3	95.0	364	96.4	95.9	95.9	95.6	371	83.8	393	90.8	91.1	409	94.9	89.0	91.0	89.5
Merthyr Tydfil LA	167	96.4	95.8	97.0	95.2	179	97.8	97.8	97.8	97.2	196	87.2	193	90.2	91.7	169	93.5	91.7	89.9	89.9
Rhondda Cynon Taf LA	652	97.7	97.9	98.2	97.4	635	95.1	96.1	95.3	95.7	684	90.1	671	92.7	93.3	710	94.8	90.4	90.6	90.6
Health Board Total	1180	96.9	96.7	97.1	96.4	1178	95.9	96.3	95.8	95.9	1251	87.8	1257	91.7	92.4	1288	94.6	90.1	90.6	90.1
Hywel Dda UHB																				
Cardiganshire LA	409	96.3	95.6	96.6	94.9	461	93.9	94.6	93.5	93.7	491	82.1	462	92.6	92.9	540	90.4	88.1	87.2	87.4
Ceredigion LA	146	95.9	95.9	95.9	90.4	129	90.7	92.2	91.5	91.5	185	89.7	143	92.3	90.9	143	93.7	90.9	86.0	86.7
Pembrokeshire LA	267	92.9	94.0	93.6	90.6	274	90.1	90.1	89.8	89.8	313	87.2	322	91.6	91.0	296	94.9	91.2	82.4	83.1
Health Board Total	822	95.1	95.1	95.5	92.7	864	92.2	92.8	92.0	92.1	989	85.1	927	92.2	91.9	979	92.2	89.5	85.6	86.0
Powys Teaching UHB																				
Health Board Total	286	96.9	96.9	96.9	94.8	292	96.2	95.9	94.5	95.5	335	91.6	287	92.3	93.7	295	93.2	86.8	85.4	85.1
Swansea Bay UHB																				
Neath Port Talbot LA	332	95.2	96.1	95.2	95.5	361	93.4	94.7	93.9	93.6	383	89.8	376	94.4	94.7	343	95.9	91.5	88.6	87.8
Swansea LA	571	95.8	94.7	95.3	95.4	582	94.2	94.7	93.5	93.8	636	86.5	621	91.3	91.0	650	92.3	89.1	89.7	89.1
Health Board Total	903	95.6	95.2	95.2	95.5	943	93.8	94.7	93.6	93.7	1019	87.7	997	92.5	92.4	993	93.6	89.9	89.3	88.6
Unknown	8	100.0	100.0	100.0	100.0	8	100.0	100.0	100.0	100.0	8	75.0	6	50.0	50.0	25	92.0	92.0	84.0	84.0
Wales Total	7703	95.8	95.6	96.0	94.0	8036	94.7	95.0	94.1	94.4	8511	87.5	8404	92.4	92.7	8373	94.0	89.9	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 01/04/19 and 30/06/19 and resident on 30/06/19.

Area	Resident children	D3	T3	P3	Po3	Hib3	HepB ¹	MMR1	Rotavirus	PCV2 ²	Men B ³	HibMenC											
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)										
<u>Aneurin Bevan University HB</u>																							
Blaenau Gwent LA	169	165	97.6	165	97.6	165	97.6	164	97.0	165	97.6	164	97.0	0	0.0	158	93.5	165	97.6	165	97.6	0	0.0
Caerphilly LA	466	452	97.0	452	97.0	452	97.0	452	97.0	452	97.0	451	96.8	0	0.0	434	93.1	455	97.6	456	97.9	0	0.0
Monmouthshire LA	189	185	97.9	185	97.9	185	97.9	185	97.9	185	97.9	185	97.9	1	0.5	180	95.2	185	97.9	184	97.4	0	0.0
Newport LA	439	418	95.2	418	95.2	418	95.2	418	95.2	418	95.2	417	95.0	2	0.5	405	92.3	421	95.9	422	96.1	0	0.0
Torfaen LA	234	226	96.6	226	96.6	226	96.6	226	96.6	226	96.6	226	96.6	0	0.0	221	94.4	227	97.0	226	96.6	0	0.0
Health Board Total	1497	1446	96.6	1446	96.6	1446	96.6	1445	96.5	1446	96.6	1443	96.4	3	0.2	1398	93.4	1453	97.1	1453	97.1	0	0.0
<u>Betsi Cadwaladr University HB</u>																							
Anglesey LA	174	166	95.4	166	95.4	166	95.4	166	95.4	166	95.4	166	95.4	0	0.0	161	92.5	167	96.0	167	96.0	0	0.0
Conwy LA	280	267	95.4	267	95.4	267	95.4	267	95.4	267	95.4	267	95.4	1	0.4	262	93.6	268	95.7	266	95.0	1	0.4
Denbighshire LA	244	238	97.5	238	97.5	238	97.5	238	97.5	238	97.5	238	97.5	0	0.0	233	95.5	237	97.1	237	97.1	0	0.0
Flintshire LA	365	349	95.6	349	95.6	349	95.6	349	95.6	349	95.6	349	95.6	0	0.0	345	94.5	350	95.9	350	95.9	0	0.0
Gwynedd LA	277	266	96.0	266	96.0	266	96.0	266	96.0	266	96.0	265	95.7	2	0.7	256	92.4	265	95.7	265	95.7	2	0.7
Wrexham LA	357	341	95.5	341	95.5	341	95.5	341	95.5	341	95.5	340	95.2	0	0.0	334	93.6	343	96.1	341	95.5	0	0.0
Health Board Total	1697	1627	95.9	1627	95.9	1627	95.9	1627	95.9	1627	95.9	1625	95.8	3	0.2	1591	93.8	1630	96.1	1626	95.8	3	0.2
<u>Cardiff and Vale University HB</u>																							
Cardiff LA	966	906	93.8	906	93.8	906	93.8	906	93.8	905	93.7	905	93.7	11	1.1	887	91.8	909	94.1	895	92.7	4	0.4
Vale of Glamorgan LA	344	326	94.8	326	94.8	326	94.8	326	94.8	326	94.8	326	94.8	1	0.3	324	94.2	324	94.2	322	93.6	1	0.3
Health Board Total	1310	1232	94.0	1232	94.0	1232	94.0	1232	94.0	1231	94.0	1231	94.0	12	0.9	1211	92.4	1233	94.1	1217	92.9	5	0.4
<u>Cwm Taf Morgannwg University HB</u>																							
Bridgend LA	361	346	95.8	346	95.8	346	95.8	346	95.8	346	95.8	346	95.8	2	0.6	343	95.0	344	95.3	343	95.0	0	0.0
Merthyr Tydfil LA	167	161	96.4	161	96.4	161	96.4	161	96.4	161	96.4	161	96.4	0	0.0	159	95.2	162	97.0	160	95.8	0	0.0
Rhondda Cynon Taf LA	652	637	97.7	637	97.7	637	97.7	637	97.7	637	97.7	637	97.7	0	0.0	635	97.4	640	98.2	638	97.9	0	0.0
Health Board Total	1180	1144	96.9	1144	96.9	1144	96.9	1144	96.9	1144	96.9	1144	96.9	2	0.2	1137	96.4	1146	97.1	1141	96.7	0	0.0
<u>Hywel Dda University HB</u>																							
Carmarthenshire LA	409	394	96.3	394	96.3	394	96.3	394	96.3	394	96.3	389	95.1	7	1.7	388	94.9	395	96.6	391	95.6	8	2.0
Ceredigion LA	146	140	95.9	140	95.9	140	95.9	140	95.9	140	95.9	136	93.2	3	2.1	132	90.4	140	95.9	140	95.9	3	2.1
Pembrokeshire LA	267	248	92.9	248	92.9	248	92.9	248	92.9	248	92.9	248	92.9	1	0.4	242	90.6	250	93.6	251	94.0	0	0.0
Health Board Total	822	782	95.1	782	95.1	782	95.1	782	95.1	782	95.1	773	94.0	11	1.3	762	92.7	785	95.5	782	95.1	11	1.3
<u>Powys Teaching HB</u>																							
Health Board Total	286	277	96.9	277	96.9	277	96.9	277	96.9	277	96.9	276	96.5	2	0.7	271	94.8	277	96.9	277	96.9	2	0.7
<u>Swansea Bay University HB</u>																							
Neath Port Talbot LA	332	316	95.2	316	95.2	316	95.2	316	95.2	316	95.2	316	95.2	0	0.0	317	95.5	316	95.2	319	96.1	0	0.0
Swansea LA	571	547	95.8	547	95.8	547	95.8	547	95.8	547	95.8	546	95.6	4	0.7	545	95.4	544	95.3	541	94.7	2	0.4
Health Board Total	903	863	95.6	863	95.6	863	95.6	863	95.6	863	95.6	862	95.5	4	0.4	862	95.5	860	95.2	860	95.2	2	0.2
Unknown	8	8	100.0	8	100.0	8	100.0	8	100.0	8	100.0	8	80.0	0	0.0	8	100.0	8	100.0	8	100.0	0	0.0
Wales Total	7703	7379	95.8	7379	95.8	7379	95.8	7378	95.8	7378	95.8	7362	95.6	37	0.5	7240	94.0	7392	96.0	7364	95.6	23	0.3

¹ Although the majority of one year olds referred to in this report would have been eligible for the "6 in 1" vaccine, a proportion of infants would have received the "5 in 1".

² Full primary two dose course of pneumococcal conjugate vaccine.

³ 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 01/04/19 and 30/06/19 and resident on 30/06/19.

Area	Resident children	D3		T3		P3		Po3		Hib3		MMR1		PCV2 ¹		PCVf ²		Men B ³		HibMenC	
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
Aneurin Bevan University HB																					
Blaenau Gwent LA	168	164	97.6	164	97.6	164	97.6	164	97.6	164	97.6	162	96.4	162	96.4	161	95.8	161	95.8	159	94.6
Caerphilly LA	495	483	97.6	483	97.6	483	97.6	483	97.6	483	97.6	475	96.0	476	96.2	474	95.8	474	95.8	474	95.8
Monmouthshire LA	210	204	97.1	204	97.1	204	97.1	204	97.1	204	97.1	201	95.7	201	95.7	202	96.2	203	96.7	202	96.2
Newport LA	498	481	96.6	481	96.6	481	96.6	482	96.8	481	96.6	473	95.0	476	95.6	474	95.2	467	93.8	470	94.4
Torfaen LA	272	266	97.8	266	97.8	266	97.8	266	97.8	266	97.8	261	96.0	265	97.4	263	96.7	262	96.3	261	96.0
Health Board Total	1643	1598	97.3	1598	97.3	1598	97.3	1599	97.3	1598	97.3	1572	95.7	1580	96.2	1574	95.8	1567	95.4	1566	95.3
Betsi Cadwaladr University HB																					
Anglesey LA	165	162	98.2	162	98.2	162	98.2	162	98.2	162	98.2	158	95.8	161	97.6	158	95.8	159	96.4	158	95.8
Conwy LA	258	237	91.9	237	91.9	237	91.9	237	91.9	237	91.9	237	91.9	234	90.7	237	91.9	236	91.5	235	91.1
Denbighshire LA	244	241	98.8	241	98.8	241	98.8	241	98.8	241	98.8	237	97.1	237	97.1	238	97.5	237	97.1	237	97.1
Flintshire LA	410	393	95.9	393	95.9	393	95.9	393	95.9	393	95.9	389	94.9	390	95.1	390	95.1	389	94.9	390	95.1
Gwynedd LA	259	251	96.9	251	96.9	251	96.9	251	96.9	251	96.9	248	95.8	245	94.6	249	96.1	245	94.6	244	94.2
Wrexham LA	412	401	97.3	401	97.3	401	97.3	401	97.3	401	97.3	398	96.6	397	96.4	399	96.8	397	96.4	398	96.6
Health Board Total	1748	1685	96.4	1685	96.4	1685	96.4	1685	96.4	1685	96.4	1667	95.4	1664	95.2	1671	95.6	1663	95.1	1662	95.1
Cardiff and Vale University HB																					
Cardiff LA	992	948	95.6	948	95.6	948	95.6	948	95.6	948	95.6	918	92.5	927	93.4	914	92.1	887	89.4	905	91.2
Vale of Glamorgan LA	368	357	97.0	357	97.0	357	97.0	357	97.0	357	97.0	352	95.7	351	95.4	356	96.7	352	95.7	354	96.2
Health Board Total	1360	1305	96.0	1305	96.0	1305	96.0	1305	96.0	1305	96.0	1270	93.4	1278	94.0	1270	93.4	1239	91.1	1259	92.6
Cwm Taf Morgannwg University HB																					
Bridgend LA	364	355	97.5	355	97.5	355	97.5	355	97.5	355	97.5	351	96.4	353	97.0	349	95.9	349	95.9	348	95.6
Merthyr Tydfil LA	179	175	97.8	175	97.8	175	97.8	175	97.8	175	97.8	175	97.8	176	98.3	175	97.8	175	97.8	174	97.2
Rhondda Cynon Taf LA	635	623	98.1	623	98.1	623	98.1	623	98.1	623	98.1	604	95.1	620	97.6	610	96.1	605	95.3	608	95.7
Health Board Total	1178	1153	97.9	1153	97.9	1153	97.9	1153	97.9	1153	97.9	1130	95.9	1149	97.5	1134	96.3	1129	95.8	1130	95.9
Hywel Dda University HB																					
Carmarthenshire LA	461	444	96.3	444	96.3	444	96.3	443	96.1	444	96.3	433	93.9	433	93.9	436	94.6	431	93.5	432	93.7
Ceredigion LA	129	120	93.0	120	93.0	120	93.0	120	93.0	120	93.0	117	90.7	118	91.5	119	92.2	118	91.5	118	91.5
Pembrokeshire LA	274	258	94.2	258	94.2	258	94.2	258	94.2	257	93.8	247	90.1	255	93.1	247	90.1	246	89.8	246	89.8
Health Board Total	864	822	95.1	822	95.1	822	95.1	821	95.0	821	95.0	797	92.2	806	93.3	802	92.8	795	92.0	796	92.1
Powys Teaching HB																					
Health Board Total	292	286	97.9	286	97.9	286	97.9	286	97.9	286	97.9	281	96.2	282	96.6	280	95.9	276	94.5	279	95.5
Swansea Bay University HB																					
Neath Port Talbot LA	361	348	96.4	348	96.4	348	96.4	348	96.4	348	96.4	337	93.4	345	95.6	342	94.7	339	93.9	338	93.6
Swansea LA	582	560	96.2	560	96.2	560	96.2	560	96.2	560	96.2	548	94.2	550	94.5	551	94.7	544	93.5	546	93.8
Health Board Total	943	908	96.3	908	96.3	908	96.3	908	96.3	908	96.3	885	93.8	895	94.9	893	94.7	883	93.6	884	93.7
Unknown	8	8	100.0	8	100.0	8	100.0	8	100.0	8	100.0	8	100.0	8	100.0	8	100.0	8	100.0	8	100.0
Wales Total	8036	7765	96.6	7765	96.6	7765	96.6	7765	96.6	7764	96.6	7610	94.7	7662	95.3	7632	95.0	7560	94.1	7584	94.4

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 01/04/19 and 30/06/19 and resident on 30/06/19. 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	173	152	87.9	163	94.2	152	87.9	149	86.1
Caerphilly LA	500	447	89.4	486	97.2	446	89.2	441	88.2
Monmouthshire LA	226	209	92.5	214	94.7	206	91.2	200	88.5
Newport LA	501	426	85.0	460	91.8	424	84.6	411	82.0
Torfaen LA	290	258	89.0	280	96.6	256	88.3	253	87.2
Health Board Total	1690	1492	88.3	1603	94.9	1484	87.8	1454	86.0
Betsi Cadwaladr University HB									
Anglesey LA	155	146	94.2	152	98.1	146	94.2	145	93.5
Conwy LA	275	243	88.4	259	94.2	240	87.3	234	85.1
Denbighshire LA	283	263	92.9	276	97.5	261	92.2	261	92.2
Flintshire LA	403	365	90.6	388	96.3	362	89.8	357	88.6
Gwynedd LA	265	243	91.7	251	94.7	240	90.6	237	89.4
Wrexham LA	402	374	93.0	387	96.3	369	91.8	366	91.0
Health Board Total	1783	1634	91.6	1713	96.1	1618	90.7	1600	89.7
Cardiff and Vale University HB									
Cardiff LA	1053	919	87.3	1002	95.2	918	87.2	903	85.8
Vale of Glamorgan LA	383	348	90.9	365	95.3	343	89.6	341	89.0
Health Board Total	1436	1267	88.2	1367	95.2	1261	87.8	1244	86.6
Cwm Taf Morgannwg University HB									
Bridgend LA	371	321	86.5	350	94.3	316	85.2	311	83.8
Merthyr Tydfil LA	196	173	88.3	183	93.4	172	87.8	171	87.2
Rhondda Cynon Taf LA	684	623	91.1	667	97.5	621	90.8	616	90.1
Health Board Total	1251	1117	89.3	1200	95.9	1109	88.6	1098	87.8
Hywel Dda University HB									
Cardmarthenshire LA	491	418	85.1	459	93.5	417	84.9	403	82.1
Ceredigion LA	185	168	90.8	173	93.5	168	90.8	166	89.7
Pembrokeshire LA	313	277	88.5	290	92.7	277	88.5	273	87.2
Health Board Total	989	863	87.3	922	93.2	862	87.2	842	85.1
Powys Teaching HB									
Health Board Total	335	314	93.7	326	97.3	309	92.2	307	91.6
Swansea Bay University HB									
Neath Port Talbot LA	383	348	90.9	373	97.4	345	90.1	344	89.8
Swansea LA	636	558	87.7	604	95.0	557	87.6	550	86.5
Health Board Total	1019	906	88.9	977	95.9	902	88.5	894	87.7
Unknown	8	6	75.0	6	75.0	7	87.5	6	75.0
Wales Total	8511	7599	89.3	8114	95.3	7552	88.7	7445	87.5

¹ Uptake of acellular pertussis used as proxy

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

Table 6. Vaccine uptake in children reaching their 5th birthday between 01/04/19 and 30/06/19 and resident on 30/06/19. 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	185	165	89.2	180	97.3	164	88.6	164	88.6
Caerphilly LA	502	470	93.6	483	96.2	468	93.2	461	91.8
Monmouthshire LA	205	194	94.6	195	95.1	191	93.2	186	90.7
Newport LA	512	454	88.7	457	89.3	450	87.9	430	84.0
Torfaen LA	256	234	91.4	240	93.8	232	90.6	227	88.7
Health Board Total	1660	1517	91.4	1555	93.7	1505	90.7	1468	88.4
<u>Betsi Cadwaladr University HB</u>									
Anglesey LA	201	194	96.5	192	95.5	194	96.5	190	94.5
Conwy LA	294	279	94.9	284	96.6	277	94.2	273	92.9
Denbighshire LA	271	253	93.4	262	96.7	252	93.0	250	92.3
Flintshire LA	420	399	95.0	397	94.5	395	94.0	389	92.6
Gwynedd LA	293	277	94.5	283	96.6	275	93.9	272	92.8
Wrexham LA	385	365	94.8	369	95.8	363	94.3	357	92.7
Health Board Total	1864	1767	94.8	1787	95.9	1756	94.2	1731	92.9
<u>Cardiff and Vale University HB</u>									
Cardiff LA	1063	975	91.7	1000	94.1	980	92.2	944	88.8
Vale of Glamorgan LA	343	325	94.8	338	98.5	324	94.5	323	94.2
Health Board Total	1406	1300	92.5	1338	95.2	1304	92.7	1267	90.1
<u>Cwm Taf Morgannwg University HB</u>									
Bridgend LA	393	358	91.1	379	96.4	357	90.8	355	90.3
Merthyr Tydfil LA	193	177	91.7	181	93.8	174	90.2	170	88.1
Rhondda Cynon Taf LA	671	626	93.3	648	96.6	622	92.7	616	91.8
Health Board Total	1257	1161	92.4	1208	96.1	1153	91.7	1141	90.8
<u>Hywel Dda University HB</u>									
Carmarthenshire LA	462	429	92.9	440	95.2	428	92.6	419	90.7
Ceredigion LA	143	130	90.9	134	93.7	132	92.3	128	89.5
Pembrokeshire LA	322	293	91.0	307	95.3	295	91.6	290	90.1
Health Board Total	927	852	91.9	881	95.0	855	92.2	837	90.3
<u>Powys Teaching HB</u>									
Health Board Total	287	269	93.7	274	95.5	265	92.3	259	90.2
<u>Swansea Bay University HB</u>									
Neath Port Talbot LA	376	356	94.7	366	97.3	355	94.4	349	92.8
Swansea LA	621	565	91.0	588	94.7	567	91.3	555	89.4
Health Board Total	997	921	92.4	954	95.7	922	92.5	904	90.7
Unknown	6	3	50.0	4	66.7	3	50.0	3	50.0
Wales Total	8404	7790	92.7	8001	95.2	7763	92.4	7610	90.6

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 01/04/19 and 30/06/19 and resident on 30/06/19.

Area	Resident children	D3	T3	P3	Po3	Hib3	MenC ¹	PCVf ²	HibMenC	MMR1	MMR2	D4	T4	aP	Po4
<u>Aneurin Bevan University HB</u>	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
Blaenau Gwent LA	185	180	97.3	180	97.3	180	97.3	180	97.3	179	96.8	180	97.3	179	96.8
Caerphilly LA	502	494	98.4	494	98.4	494	98.4	494	98.4	492	98.0	484	96.4	483	96.2
Monmouthshire LA	205	200	97.6	200	97.6	200	97.6	200	97.6	192	93.7	192	93.7	195	95.1
Newport LA	512	487	95.1	487	95.1	487	95.1	487	95.1	478	93.4	467	91.2	457	89.3
Torfaen LA	256	250	97.7	250	97.7	250	97.7	250	97.7	248	96.9	245	95.7	240	93.8
Health Board Total	1660	1611	97.0	1611	97.0	1611	97.0	1611	97.0	1590	95.8	1567	94.4	1555	93.7
<u>Betsi Cadwaladr University HB</u>															
Anglesey LA	201	196	97.5	196	97.5	196	97.5	196	97.5	193	96.0	195	97	192	95.5
Conwy LA	294	293	99.7	293	99.7	293	99.7	293	99.7	290	98.6	284	96.6	284	96.6
Denbighshire LA	271	266	98.2	266	98.2	266	98.2	266	98.2	260	95.9	262	96.7	262	96.7
Flintshire LA	420	406	96.7	406	96.7	406	96.7	406	96.7	388	92.4	397	94.5	397	94.5
Gwynedd LA	293	286	97.6	286	97.6	285	97.3	286	97.6	285	97.3	277	94.5	280	95.6
Wrexham LA	385	378	98.2	378	98.2	378	98.2	377	97.9	378	98.2	363	94.3	371	96.4
Health Board Total	1864	1825	97.9	1825	97.9	1824	97.9	1824	97.9	1771	95.0	1789	96	1787	95.9
<u>Cardiff and Vale University HB</u>															
Cardiff LA	1063	1033	97.2	1033	97.2	1033	97.2	1032	97.1	1027	96.6	973	91.5	1000	94.1
Vale of Glamorgan LA	343	339	98.8	339	98.8	339	98.8	339	98.8	339	98.8	332	96.8	334	97.4
Health Board Total	1406	1372	97.6	1372	97.6	1372	97.6	1371	97.5	1366	97.2	1305	92.8	1334	94.9
<u>Cwm Taf Morgannwg University HB</u>															
Bridgend LA	393	384	97.7	384	97.7	384	97.7	384	97.7	379	96.4	377	95.9	379	96.4
Merthyr Tydfil LA	193	187	96.9	187	96.9	187	96.9	187	96.9	185	95.9	182	94.3	181	93.8
Rhondda Cynon Taf LA	671	661	98.5	661	98.5	661	98.5	659	98.2	660	98.4	647	96.4	648	96.6
Health Board Total	1257	1232	98.0	1232	98.0	1232	98.0	1230	97.9	1231	97.9	1224	97.4	1206	95.9
<u>Hywel Dda University HB</u>															
Carmarthenshire LA	462	448	97.0	448	97.0	448	97.0	447	96.8	448	97.0	443	95.9	434	93.9
Ceredigion LA	143	138	96.5	138	96.5	138	96.5	138	96.5	137	95.8	135	94.4	132	92.3
Pembrokeshire LA	322	313	97.2	313	97.2	313	97.2	313	97.2	313	97.2	306	95.0	303	94.1
Health Board Total	927	899	97.0	899	97.0	899	97.0	898	96.9	898	96.9	884	95.4	869	93.7
<u>Powys Teaching HB</u>															
Health Board Total	287	281	97.9	281	97.9	281	97.9	281	97.9	281	97.9	275	95.8	274	95.5
<u>Swansea Bay University HB</u>															
Neath Port Talbot LA	376	370	98.4	370	98.4	370	98.4	370	98.4	370	98.4	365	97.1	368	97.9
Swansea LA	621	597	96.1	597	96.1	597	96.1	598	96.3	595	95.8	585	94.2	577	92.9
Health Board Total	997	967	97.0	967	97.0	967	97.0	968	97.1	965	96.8	950	95.3	945	94.8
Unknown	6	5	83.3	5	83.3	5	83.3	5	83.3	5	83.3	4	66.7	4	66.7
Wales Total	8404	8192	97.5	8192	97.5	8191	97.5	8188	97.4	8181	97.3	8003	95.2	7988	95

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 30/06/19.

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	414	347	83.8	340	307	90.3	245	72.1	374	330	88.2	308	82.4
Caerphilly LA	1018	769	75.5	1012	927	91.6	770	76.1	1016	920	90.6	866	85.2
Monmouthshire LA	514	407	79.2	512	417	81.4	344	67.2	539	448	83.1	410	76.1
Newport LA	946	748	79.1	953	792	83.1	657	68.9	906	750	82.8	684	75.5
Torfaen LA	549	468	85.2	555	483	87.0	402	72.4	489	442	90.4	419	85.7
Health Board Total	3441	2739	79.6	3372	2926	86.8	2418	71.7	3324	2890	86.9	2687	80.8
<u>Betsi Cadwaladr University HB</u>													
Anglesey LA	337	288	85.5	342	294	86.0	267	78.1	348	311	89.4	289	83.0
Conwy LA	594	511	86.0	532	490	92.1	447	84.0	575	523	91.0	499	86.8
Denbighshire LA	540	432	80.0	531	471	88.7	416	78.3	511	449	87.9	422	82.6
Flintshire LA	822	670	81.5	809	738	91.2	636	78.6	798	734	92.0	705	88.3
Gwynedd LA	677	603	89.1	634	568	89.6	538	84.9	528	475	90.0	469	88.8
Wrexham LA	770	639	83.0	734	667	90.9	594	80.9	689	615	89.3	591	85.8
Health Board Total	3740	3143	84.0	3582	3228	90.1	2898	80.9	3449	3107	90.1	2975	86.3
<u>Cardiff and Vale University HB</u>													
Cardiff LA	2018	1656	82.1	1992	1769	88.8	1627	81.7	1871	1635	87.4	1459	78.0
Vale of Glamorgan LA	735	663	90.2	748	679	90.8	651	87.0	740	673	90.9	643	86.9
Health Board Total	2753	2319	84.2	2740	2448	89.3	2278	83.1	2611	2308	88.4	2102	80.5
<u>Cwm Taf Morgannwg University HB</u>													
Bridgend LA	797	716	89.8	799	726	90.9	663	83.0	808	749	92.7	708	87.6
Merthyr Tydfil LA	320	289	90.3	356	332	93.3	306	86.0	316	292	92.4	280	88.6
Rhondda Cynon Taf LA	1397	1294	92.6	1394	1302	93.4	1223	87.7	1314	1247	94.9	1192	90.7
Health Board Total	2514	2299	91.4	2549	2360	92.6	2192	86.0	2438	2288	93.8	2180	89.4
<u>Hywel Dda University HB</u>													
Carmarthenshire LA	989	887	89.7	979	906	92.5	856	87.4	976	894	91.6	854	87.5
Ceredigion LA	291	259	89.0	284	249	87.7	240	84.5	329	287	87.2	276	83.9
Pembrokeshire LA	618	535	86.6	608	540	88.8	488	80.3	631	543	86.1	509	80.7
Health Board Total	1898	1681	88.6	1871	1695	90.6	1584	84.7	1936	1724	89.0	1639	84.7
<u>Powys Teaching HB</u>													
Health Board Total	654	572	87.5	656	562	85.7	511	77.9	655	568	86.7	556	84.9
<u>Swansea Bay University HB</u>													
Neath Port Talbot LA	800	746	93.3	815	772	94.7	725	89.0	737	702	95.3	669	90.8
Swansea LA	1247	1131	90.7	1170	1083	92.6	1019	87.1	1216	1136	93.4	1105	90.9
Health Board Total	2047	1877	91.7	1985	1855	93.5	1744	87.9	1953	1838	94.1	1774	90.8
Unknown	50	34	68.0	69	39	56.5	37	53.6	60	41	68.3	39	65.0
Wales Total	17097	14664	85.8	16824	15113	89.8	13662	81.2	16426	14764	89.9	13952	84.9

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 30/06/19.

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	1778	85.7	2143	1807	84.3	2089	1775	85.0	2011	1728	85.9
Monmouthshire LA	1069	860	80.4	1134	907	80.0	1100	897	81.5	1054	812	77.0
Newport LA	1907	1566	82.1	1896	1517	80.0	1875	1488	79.4	1837	1459	79.4
Torfaen LA	1126	957	85.0	1010	900	89.1	979	830	84.8	1015	883	87.0
Health Board Total	6858	5748	83.8	6937	5800	83.6	6726	5583	83.0	6627	5516	83.2
<u>Betsi Cadwaladr University HB</u>												
Anglesey LA	702	548	78.1	733	613	83.6	703	597	84.9	728	608	83.5
Conwy LA	1165	1002	86.0	1167	1020	87.4	1163	1061	91.2	1138	1004	88.2
Denbighshire LA	1102	849	77.0	1082	921	85.1	1040	885	85.1	1137	888	78.1
Flintshire LA	1645	1327	80.7	1668	1424	85.4	1501	1303	86.8	1588	1322	83.2
Gwynedd LA	1250	1044	83.5	1157	1003	86.7	1174	1037	88.3	1167	1005	86.1
Wrexham LA	1496	1211	80.9	1434	1234	86.1	1423	1219	85.7	1322	1136	85.9
Health Board Total	7360	5981	81.3	7241	6215	85.8	7004	6102	87.1	7080	5963	84.2
<u>Cardiff and Vale University HB</u>												
Cardiff LA	4009	2877	71.8	3783	2821	74.6	3807	2900	76.2	3659	2139	58.5
Vale of Glamorgan LA	1503	1190	79.2	1439	1193	82.9	1491	1232	82.6	1353	909	67.2
Health Board Total	5512	4067	73.8	5222	4014	76.9	5298	4132	78.0	5012	3048	60.8
<u>Cwm Taf Morgannwg University HB</u>												
Bridgend LA	1704	1511	88.7	1591	1352	85.0	1560	1401	89.8	1517	1369	90.2
Merthyr Tydfil LA	713	628	88.1	664	587	88.4	670	606	90.4	628	567	90.3
Rhondda Cynon Taf LA	2864	2585	90.3	2671	2469	92.4	2816	2545	90.4	2544	2333	91.7
Health Board Total	5281	4724	89.5	4926	4408	89.5	5046	4552	90.2	4689	4269	91.0
<u>Hywel Dda University HB</u>												
Carmarthenshire LA	2009	1762	87.7	2001	1766	88.3	2049	1822	88.9	2029	1810	89.2
Ceredigion LA	648	581	89.7	675	598	88.6	621	537	86.5	583	505	86.6
Pembrokeshire LA	1238	1035	83.6	1264	1055	83.5	1227	994	81.0	1161	900	77.5
Health Board Total	3895	3378	86.7	3940	3419	86.8	3897	3353	86.0	3773	3215	85.2
<u>Powys Teaching HB</u>												
Health Board Total	1358	1189	87.6	1332	1199	90.0	1328	1134	85.4	1273	1105	86.8
<u>Swansea Bay University HB</u>												
Neath Port Talbot LA	1644	1508	91.7	1498	1368	91.3	1431	1285	89.8	1461	1343	91.9
Swansea LA	2520	2330	92.5	2568	2357	91.8	2590	2305	89.0	2512	2245	89.4
Health Board Total	4164	3838	92.2	4066	3725	91.6	4021	3590	89.3	3973	3588	90.3
Unknown	138	73	52.9	137	92	67.2	91	75	82.4	95	81	85.3
Wales Total	34566	28998	83.9	33801	28872	85.4	33411	28521	85.4	32522	26785	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 30/06/19, 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)	(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	1776	85.6	1778	85.7	1012	992	98.0	970	95.8	1063	1030	96.9	1002	94.3					
Monmouthshire LA	1069	1006	94.1	979	91.6	857	80.2	860	80.4	512	487	95.1	472	92.2	557	519	93.2	507	91.0					
Newport LA	1907	1827	95.8	1755	92.0	1559	81.8	1566	82.1	953	913	95.8	883	92.7	951	912	95.9	872	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	6858	6618	96.5	6425	93.7	5746	83.8	5748	83.8	3372	3261	96.7	3179	94.3	3483	3355	96.3	3246	93.2					
<u>Betsi Cadwaladr University HB</u>																								
Anglesey LA	702	662	94.3	637	90.7	552	78.6	548	78.1	342	323	94.4	309	90.4	360	339	94.2	328	91.1					
Conwy LA	1165	1111	95.4	1080	92.7	998	85.7	1002	86.0	532	510	95.9	497	93.4	633	601	94.9	583	92.1					
Denbighshire LA	1102	1035	93.9	994	90.2	840	76.2	849	77.0	531	499	94.0	480	90.4	571	536	93.9	514	90.0					
Flintshire LA	1645	1567	95.3	1514	92.0	1326	80.6	1327	80.7	809	775	95.8	747	92.3	836	792	94.7	767	91.7					
Gwynedd LA	1250	1204	96.3	1176	94.1	1049	83.9	1044	83.5	634	615	97.0	598	94.3	616	589	95.6	578	93.8					
Wrexham LA	1496	1453	97.1	1407	94.1	1202	80.3	1211	80.9	734	711	96.9	680	92.6	762	742	97.4	727	95.4					
Health Board Total	7360	7032	95.5	6808	92.5	5967	81.1	5981	81.3	3582	3433	95.8	3311	92.4	3778	3599	95.3	3497	92.6					
<u>Cardiff and Vale University HB</u>																								
Cardiff LA	4009	3776	94.2	3573	89.1	2882	71.9	2877	71.8	1992	1892	95.0	1801	90.4	2016	1884	93.5	1772	87.9					
Vale of Glamorgan LA	1503	1443	96.0	1378	91.7	1193	79.4	1190	79.2	748	719	96.1	686	91.7	754	724	96.0	692	91.8					
Health Board Total	5512	5219	94.7	4951	89.8	4075	73.9	4067	73.8	2740	2611	95.3	2487	90.8	2770	2608	94.2	2464	89.0					
<u>Cwm Taf Morgannwg University HB</u>																								
Bridgend LA	1704	1625	95.4	1553	91.1	1504	88.3	1511	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	2864	2746	95.9	2635	92.0	2590	90.4	2585	90.3	1394	1340	96.1	1293	92.8	1469	1406	95.7	1342	91.4					
Health Board Total	5281	5054	95.7	4843	91.7	4721	89.4	4724	89.5	2549	2445	95.9	2358	92.5	2731	2609	95.5	2485	91.0					
<u>Hywel Dda University HB</u>																								
Cardemarthenshire LA	2009	1915	95.3	1862	92.7	1763	87.8	1762	87.7	979	944	96.4	914	93.4	1030	971	94.3	948	92.0					
Ceredigion LA	648	621	95.8	598	92.3	583	90.0	581	89.7	284	271	95.4	259	91.2	364	350	96.2	339	93.1					
Pembrokeshire LA	1238	1188	96.0	1125	90.9	1043	84.2	1035	83.6	608	585	96.2	549	90.3	630	603	95.7	576	91.4					
Health Board Total	3895	3724	95.6	3585	92.0	3389	87.0	3378	86.7	1871	1800	96.2	1722	92.0	2024	1924	95.1	1863	92.0					
<u>Powys Teaching HB</u>																								
Health Board Total	1358	1287	94.8	1220	89.8	1180	86.9	1189	87.6	656	625	95.3	598	91.2	702	662	94.3	622	88.6					
<u>Swansea Bay University HB</u>																								
Neath Port Talbot LA	1644	1569	95.4	1495	90.9	1501	91.3	1508	91.7	815	779	95.6	745	91.4	829	790	95.3	750	90.5					
Swansea LA	2520	2374	94.2	2276	90.3	2312	91.7	2330	92.5	1170	1104	94.4	1055	90.2	1350	1270	94.1	1221	90.4					
Health Board Total	4164	3943	94.7	3771	90.6	3813	91.6	3838	92.2	1985	1883	94.9	1800	90.7	2179	2060	94.5	1971	90.5					
Unknown	138	123	89.1	120	87.0	75	54.3	73	52.9	69	60	87.0	60	87.0	69	63	91.3	60	87.0					
Wales Total	34566	33000	95.5	31723	91.8	28966	83.8	28998	83.9	16824	16118	95.8	15515	92.2	17736	16880	95.2	16208	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 30/06/19, 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>	(n)	(n)	(%)	(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	2143	2091	97.6	2038	95.1	1804	84.2	1807	84.3		1016	988	97.2	969	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	1896	1799	94.9	1740	91.8	1524	80.4	1517	80.0		906	864	95.4	843	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	5805	83.7	5800	83.6		3324	3210	96.6	3130	94.2	3612	3480	96.3	3368	93.2			
<u>Betsi Cadwaladr University HB</u>																							
Anglesey LA	733	702	95.8	686	93.6	611	83.4	613	83.6		348	333	95.7	326	93.7	385	369	95.8	360	93.5			
Conwy LA	1167	1118	95.8	1073	91.9	1017	87.1	1020	87.4		575	548	95.3	523	91.0	592	570	96.3	550	92.9			
Denbighshire LA	1082	1025	94.7	990	91.5	915	84.6	921	85.1		511	484	94.7	464	90.8	571	541	94.7	526	92.1			
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	7241	6940	95.8	6744	93.1	6192	85.5	6215	85.8		3449	3319	96.2	3218	93.3	3792	3621	95.5	3526	93.0			
<u>Cardiff and Vale University HB</u>																							
Cardiff LA	3783	3539	93.6	3340	88.3	2827	74.7	2821	74.6		1871	1764	94.3	1662	88.8	1912	1775	92.8	1678	87.8			
Vale of Glamorgan LA	1439	1368	95.1	1301	90.4	1193	82.9	1193	82.9		740	702	94.9	668	90.3	699	666	95.3	633	90.6			
Health Board Total	5222	4907	94.0	4641	88.9	4020	77.0	4014	76.9		2611	2466	94.4	2330	89.2	2611	2441	93.5	2311	88.5			
<u>Cwm Taf Morgannwg University HB</u>																							
Bridgend LA	1591	1519	95.5	1434	90.1	1341	84.3	1352	85.0		808	781	96.7	744	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	2671	2555	95.7	2468	92.4	2462	92.2	2469	92.4		1314	1262	96.0	1219	92.8	1357	1293	95.3	1249	92.0			
Health Board Total	4926	4698	95.4	4499	91.3	4386	89.0	4408	89.5		2438	2335	95.8	2241	91.9	2487	2363	95.0	2258	90.8			
<u>Hywel Dda University HB</u>																							
Cardiganshire LA	2001	1911	95.5	1845	92.2	1765	88.2	1766	88.3		976	934	95.7	899	92.1	1025	977	95.3	946	92.3			
Ceredigion LA	675	647	95.9	630	93.3	602	89.2	598	88.6		329	316	96.0	307	93.3	345	331	95.9	323	93.6			
Pembrokeshire LA	1264	1194	94.5	1145	90.6	1054	83.4	1055	83.5		631	598	94.8	575	91.1	633	596	94.2	570	90.0			
Health Board Total	3940	3752	95.2	3620	91.9	3421	86.8	3419	86.8		1936	1848	95.5	1781	92.0	2003	1904	95.1	1839	91.8			
<u>Powys Teaching HB</u>																							
Health Board Total	1332	1250	93.8	1194	89.6	1188	89.2	1199	90.0		655	617	94.2	593	90.5	677	633	93.5	601	88.8			
<u>Swansea Bay University HB</u>																							
Neath Port Talbot LA	1498	1432	95.6	1370	91.5	1348	90.0	1368	91.3		737	715	97.0	682	92.5	761	717	94.2	688	90.4			
Swansea LA	2568	2439	95.0	2339	91.1	2338	91.0	2357	91.8		1216	1160	95.4	1111	91.4	1352	1279	94.6	1228	90.8			
Health Board Total	4066	3871	95.2	3709	91.2	3686	90.7	3725	91.6		1953	1875	96.0	1793	91.8	2113	1996	94.5	1916	90.7			
Unknown	137	119	86.9	110	80.3	92	67.2	92	67.2		60	52	86.7	48	80.0	77	67	87.0	62	80.5			
Wales Total	33801	32228	95.3	31016	91.8	28790	85.2	28872	85.4		16426	15722	95.7	15134	92.1	17372	16505	95.0	15881	91.4			

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 30/06/19, 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>																				
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	1100	1015	92.3	971	88.3	885	80.5	897	81.5		545	505	92.7	477	87.5	555	510	91.9	494	89.0
Newport LA	1875	1745	93.1	1656	88.3	1496	79.8	1488	79.4		903	855	94.7	819	90.7	969	890	91.8	837	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	6726	6378	94.8	6120	91.0	5579	82.9	5583	83.0		3236	3085	95.3	2969	91.7	3486	3293	94.5	3151	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	1163	1103	94.8	1065	91.6	1060	91.1	1061	91.2		547	522	95.4	504	92.1	613	578	94.3	558	91.0
Denbighshire LA	1040	971	93.4	930	89.4	875	84.1	885	85.1		488	453	92.8	436	89.3	552	518	93.8	494	89.5
Flintshire LA	1501	1452	96.7	1396	93.0	1304	86.9	1303	86.8		722	705	97.6	679	94.0	779	747	95.9	717	92.0
Gwynedd LA	1174	1143	97.4	1121	95.5	1036	88.2	1037	88.3		555	540	97.3	533	96.0	619	603	97.4	588	95.0
Wrexham LA	1423	1364	95.9	1333	93.7	1212	85.2	1219	85.7		672	647	96.3	631	93.9	751	717	95.5	702	93.5
Health Board Total	7004	6707	95.8	6499	92.8	6084	86.9	6102	87.1		3322	3197	96.2	3103	93.4	3679	3507	95.3	3393	92.2
<u>Cardiff and Vale University HB</u>																				
Cardiff LA	3807	3485	91.5	3258	85.6	2890	75.9	2900	76.2		1856	1721	92.7	1619	87.2	1951	1764	90.4	1639	84.0
Vale of Glamorgan LA	1491	1418	95.1	1341	89.9	1232	82.6	1232	82.6		704	667	94.7	626	88.9	787	751	95.4	715	90.9
Health Board Total	5298	4903	92.5	4599	86.8	4122	77.8	4132	78.0		2560	2388	93.3	2245	87.7	2738	2515	91.9	2354	86.0
<u>Cwm Taf Morgannwg University HB</u>																				
Bridgend LA	1560	1475	94.6	1386	88.8	1385	88.8	1401	89.8		781	746	95.5	708	90.7	779	729	93.6	678	87.0
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	2816	2677	95.1	2545	90.4	2535	90.0	2545	90.4		1391	1331	95.7	1277	91.8	1425	1346	94.5	1268	89.0
Health Board Total	5046	4778	94.7	4527	89.7	4525	89.7	4552	90.2		2505	2393	95.5	2289	91.4	2541	2385	93.9	2238	88.1
<u>Hywel Dda University HB</u>																				
Carmarthenshire LA	2049	1922	93.8	1868	91.2	1823	89.0	1822	88.9		1001	942	94.1	921	92.0	1048	980	93.5	947	90.4
Ceredigion LA	621	591	95.2	568	91.5	540	87.0	537	86.5		297	282	94.9	271	91.2	324	309	95.4	297	91.7
Pembrokeshire LA	1227	1163	94.8	1099	89.6	988	80.5	994	81.0		621	595	95.8	564	90.8	606	568	93.7	535	88.3
Health Board Total	3897	3676	94.3	3535	90.7	3351	86.0	3353	86.0		1919	1819	94.8	1756	91.5	1978	1857	93.9	1779	89.9
<u>Powys Teaching HB</u>																				
Health Board Total	1328	1237	93.1	1152	86.7	1124	84.6	1134	85.4		659	619	93.9	578	87.7	669	618	92.4	574	85.8
<u>Swansea Bay University HB</u>																				
Neath Port Talbot LA	1431	1380	96.4	1305	91.2	1264	88.3	1285	89.8		701	681	97.1	654	93.3	730	699	95.8	651	89.2
Swansea LA	2590	2386	92.1	2248	86.8	2299	88.8	2305	89.0		1232	1130	91.7	1074	87.2	1358	1256	92.5	1174	86.5
Health Board Total	4021	3766	93.7	3553	88.4	3563	88.6	3590	89.3		1933	1811	93.7	1728	89.4	2088	1955	93.6	1825	87.4
Unknown	91	80	87.9	77	84.6	76	83.5	75	82.4		45	43	95.6	40	88.9	46	37	80.4	37	80.4
Wales Total	33411	31525	94.4	30062	90.0	28424	85.1	28521	85.4		16179	15355	94.9	14708	90.9	17225	16167	93.9	15351	89.1

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 01/04/19 and 30/06/19 and resident on 30/06/19, with breakdown of MMR1 and MMR2 coverage by sex

Area	Resident children					Teenage 3 in 1 booster ¹				Resident girls					Resident boys				
	(n)	MMR1 (n)	MMR1 (%)	MMR2 (n)	MMR2 (%)	1 booster (n)	1 booster (%)	MenACWY (n)	MenACWY (%)	(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>																			
Blaenau Gwent LA	180	176	97.8	166	92.2	159	88.3	161	89.4	86	83	96.5	79	91.9	94	93	98.9	87	92.6
Caerphilly LA	510	499	97.8	478	93.7	439	86.1	442	86.7	249	244	98.0	235	94.4	261	255	97.7	243	93.1
Monmouthshire LA	284	257	90.5	246	86.6	233	82.0	236	83.1	127	115	90.6	105	82.7	157	142	90.4	141	89.8
Newport LA	480	438	91.3	410	85.4	358	74.6	358	74.6	237	216	91.1	200	84.4	241	222	92.1	210	87.1
Torfaen LA	248	236	95.2	230	92.7	212	85.5	211	85.1	135	129	95.6	128	94.8	113	107	94.7	102	90.3
Health Board Total	1702	1606	94.4	1530	89.9	1401	82.3	1408	82.7	834	787	94.4	747	89.6	866	819	94.6	783	90.4
<u>Betsi Cadwaladr University HB</u>																			
Anglesey LA	182	174	95.6	168	92.3	150	82.4	150	82.4	87	86	98.9	83	95.4	95	88	92.6	85	89.5
Conwy LA	266	253	95.1	244	91.7	243	91.4	243	91.4	125	118	94.4	114	91.2	141	135	95.7	130	92.2
Denbighshire LA	254	241	94.9	237	93.3	216	85.0	220	86.6	106	103	97.2	101	95.3	148	138	93.2	136	91.9
Flintshire LA	379	365	96.3	347	91.6	326	86.0	324	85.5	188	185	98.4	177	94.1	191	180	94.2	170	89.0
Gwynedd LA	318	310	97.5	303	95.3	286	89.9	285	89.6	164	160	97.6	156	95.1	154	150	97.4	147	95.5
Wrexham LA	350	328	93.7	320	91.4	291	83.1	294	84.0	165	155	93.9	152	92.1	185	173	93.5	168	90.8
Health Board Total	1749	1671	95.5	1619	92.6	1512	86.4	1516	86.7	835	807	96.6	783	93.8	914	864	94.5	836	91.5
<u>Cardiff and Vale University HB</u>																			
Cardiff LA	962	882	91.7	831	86.4	715	74.3	723	75.2	449	421	93.8	398	88.6	513	461	89.9	433	84.4
Vale of Glamorgan LA	380	362	95.3	341	89.7	317	83.4	315	82.9	175	167	95.4	156	89.1	205	195	95.1	185	90.2
Health Board Total	1342	1244	92.7	1172	87.3	1032	76.9	1038	77.3	624	588	94.2	554	88.8	718	656	91.4	618	86.1
<u>Cwm Taf Morgannwg University HB</u>																			
Bridgend LA	409	388	94.9	364	89.0	366	89.5	372	91.0	214	205	95.8	201	93.9	195	183	93.8	163	83.6
Merthyr Tydfil LA	169	158	93.5	155	91.7	152	89.9	152	89.9	79	77	97.5	75	94.9	90	81	90.0	80	88.9
Rhondda Cynon Taf LA	710	673	94.8	642	90.4	643	90.6	643	90.6	351	337	96.0	329	93.7	359	336	93.6	313	87.2
Health Board Total	1288	1219	94.6	1161	90.1	1161	90.1	1167	90.6	644	619	96.1	605	93.9	644	600	93.2	556	86.3
<u>Hywel Dda University HB</u>																			
Carmarthenshire LA	540	488	90.4	476	88.1	472	87.4	471	87.2	252	225	89.3	218	86.5	288	263	91.3	258	89.6
Ceredigion LA	143	134	93.7	130	90.9	124	86.7	123	86.0	68	62	91.2	59	86.8	75	72	96.0	71	94.7
Pembrokeshire LA	296	281	94.9	270	91.2	246	83.1	244	82.4	134	130	97.0	125	93.3	162	151	93.2	145	89.5
Health Board Total	979	903	92.2	876	89.5	842	86.0	838	85.6	454	417	91.9	402	88.5	525	486	92.6	474	90.3
<u>Powys Teaching HB</u>																			
Health Board Total	295	275	93.2	256	86.8	251	85.1	252	85.4	154	144	93.5	131	85.1	141	131	92.9	125	88.7
<u>Swansea Bay University HB</u>																			
Neath Port Talbot LA	343	329	95.9	314	91.5	301	87.8	304	88.6	166	159	95.8	154	92.8	177	170	96.0	160	90.4
Swansea LA	650	600	92.3	579	89.1	579	89.1	583	89.7	314	288	91.7	270	86.0	336	312	92.9	309	92.0
Health Board Total	993	929	93.6	893	89.9	880	88.6	887	89.3	480	447	93.1	424	88.3	513	482	94.0	469	91.4
Unknown	25	23	92.0	23	92.0	21	84.0	21	84.0	12	12	100.0	12	100.0	13	11	84.6	11	84.6
Wales Total	8373	7870	94.0	7530	89.9	7100	84.8	7127	85.1	4037	3821	94.6	3658	90.6	4334	4049	93.4	3872	89.3

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 01/09/18 and 31/08/19 and resident on 30/06/19.¹

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	169	7	4.1	168	2	1.2	185	3	1.6	180	6	3.3
Caerphilly LA	466	10	2.1	495	8	1.6	502	12	2.4	510	3	0.6
Monmouthshire LA	189	6	3.2	210	10	4.8	205	11	5.4	284	5	1.8
Newport LA	439	88	20.0	498	71	14.3	512	93	18.2	480	35	7.3
Torfaen LA	234	6	2.6	272	3	1.1	256	10	3.9	248	3	1.2
Health Board Total	1497	117	7.8	1643	94	5.7	1660	129	7.8	1702	52	3.1
<u>Betsi Cadwaladr University HB</u>												
Anglesey LA	174	3	1.7	165	1	0.6	201	3	1.5	182	4	2.2
Conwy LA	280	7	2.5	258	17	6.6	294	13	4.4	266	7	2.6
Denbighshire LA	244	11	4.5	244	9	3.7	271	15	5.5	254	13	5.1
Flintshire LA	365	15	4.1	410	18	4.4	420	23	5.5	379	16	4.2
Gwynedd LA	277	7	2.5	259	12	4.6	293	20	6.8	318	7	2.2
Wrexham LA	357	16	4.5	412	20	4.9	385	22	5.7	350	14	4.0
Health Board Total	1697	59	3.5	1748	77	4.4	1864	96	5.2	1749	61	3.5
<u>Cardiff and Vale University HB</u>												
Cardiff LA	966	98	10.1	992	154	15.5	1063	237	22.3	962	169	17.6
Vale of Glamorgan LA	344	8	2.3	368	13	3.5	343	12	3.5	380	17	4.5
Health Board Total	1310	106	8.1	1360	167	12.3	1406	249	17.7	1342	186	13.9
<u>Cwm Taf Morgannwg Univeristy HB</u>												
Bridgend LA	361	15	4.2	364	10	2.7	393	8	2.0	409	13	3.2
Merthyr Tydfil LA	167	10	6.0	179	5	2.8	193	24	12.4	169	2	1.2
Rhondda Cynon Taf LA	652	16	2.5	635	15	2.4	671	31	4.6	710	23	3.2
Health Board Total	1180	41	3.5	1178	30	2.5	1257	63	5.0	1288	38	3.0
<u>Hywel Dda University HB</u>												
Carmarthenshire LA	409	8	2.0	461	11	2.4	462	14	3.0	540	15	2.8
Ceredigion LA	146	1	0.7	129	6	4.7	143	7	4.9	143	7	4.9
Pembrokeshire LA	267	2	0.7	274	10	3.6	322	10	3.1	296	8	2.7
Health Board Total	822	11	1.3	864	27	3.1	927	31	3.3	979	30	3.1
<u>Powys Teaching Health Board</u>												
Health Board Total	286	5	1.7	292	2	0.7	287	7	2.4	295	5	1.7
<u>Swansea Bay University HB</u>												
Neath Port Talbot LA	332	11	3.3	361	10	2.8	376	15	4.0	343	6	1.7
Swansea LA	571	50	8.8	582	68	11.7	621	76	12.2	650	35	5.4
Health Board Total	903	61	6.8	943	78	8.3	997	91	9.1	993	41	4.1
Unknown	0	0	0.0	8	0	0.0	6	0	0.0	25	1	4.0
Wales Total	7703	400	5.2	8036	475	5.9	8404	666	7.9	8373	414	4.9

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 01/09/18 and 31/08/19 and resident on 30/06/19, 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	1497	2	100.0	100.0	100.0	1643	2	100.0	100.0	100.0	50.0	1660	3	100.0	100.0	100.0	100.0
Betsi Cadwaladr UHB	1697	1	100.0	100.0	100.0	1748	2	100.0	100.0	100.0	100.0	1864	4	100.0	100.0	100.0	100.0
Cardiff and Vale UHB	1310	6	100.0	100.0	100.0	1360	7	100.0	100.0	100.0	85.7	1406	3	100.0	100.0	100.0	66.7
Cwm Taf Morgannwg UHB	1180	0	-	-	-	1178	1	100.0	100.0	100.0	100.0	1257	0	-	-	-	-
Hywel Dda UHB	822	1	100.0	100.0	100.0	864	0	-	-	-	-	927	0	-	-	-	-
Powys Teaching HB	286	0	-	-	-	292	0	-	-	-	-	287	0	-	-	-	-
Swansea Bay UHB	903	1	100.0	100.0	100.0	943	1	100.0	100.0	100.0	100.0	997	4	100.0	100.0	100.0	100.0
Unknown	8	1	-	-	-	8	0	-	-	-	-	6	0	-	-	-	-
Wales Total	7703	12	100.0	100.0	100.0	8036	13	100.0	100.0	100.0	84.6	8404	14	100.0	100.0	100.0	92.9

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).