

Vaccine Uptake in Children in Wales

January to March 2020

COVER 134: Wales May 2020

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 16 of 22 Local Authority (LA) areas.
- Uptake of the complete three-dose course of MenB vaccine in two year olds was 94.4% this quarter. Four HBs and 11 LA areas had an uptake above 95%.
- Uptake of the first dose of MMR vaccine in two year old children was 95.1% 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 89.2% this quarter and was 90.9% in five year olds.
- HPV vaccination has now been introduced as part of the routine schedule for school year 8 boys. Uptake of one dose of HPV vaccine in the 2019-20 school year 8 children (12-13 year olds) is currently 29.6% and will increase as paused vaccination sessions are re-started in schools following COVID-19 measures.
- Uptake of routine MenACWY vaccine in the 2019-20 school year 9 cohort is 56.3%, this will increase as vaccination sessions are re-started in schools. Coverage of the MenACWY vaccine in the 2019-20 school year 10 cohort was 85.5%.
- Uptake of the Td/IPV teenage booster in the 2019-20 school year 9 cohort is 56.4%. Coverage of the Td/IPV teenage booster in the 2019-20 school year 10 was 85.4%.
- Coverage of one dose of MMR vaccine in the 2019-20 school year 10 (age 14-15 years) was 95.3%, coverage of two doses was 91.7%.
- Coverage of one dose of MMR vaccine in the 2019-20 school year 11 (age 15-16 years) was 95.1%, coverage of two doses was 91.5%.

Background

These results are for children living in Wales in March 2020 and reaching their first, second, fourth, fifth and 16th birthdays during the quarter 01/01/2020 to 31/03/2020. 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 01/09/2019 and 31/08/2020). 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 96.0% this quarter, compared to 95.9% last quarter. Uptake ranged by HB from 94.3% (Cardiff and Vale) to 98.4% (Powys Teaching) and by LA from 93.9% (Cardiff) to 100.0% (Anglesey). Six of the seven HBs and 16 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 was 96.2% this quarter, stable compared to 96.1% last quarter. Uptake ranged by LA from 94.1% (Cardiff) to 100.0% (Anglesey). Six of the seven HBs and 17 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 96.0% this quarter. Uptake in HBs ranged from 93.9% (Cardiff and Vale) to 97.2% (Powys Teaching) and ranged by LA from 93.3% (Cardiff) to 99.3% (Anglesey) (Figure 3, Tables 2 and 3).
4. Uptake of two doses of rotavirus vaccine in children reaching their first birthday increased to 94.4% this quarter. Uptake in HBs ranged from 92.4% (Cardiff and Vale) to 96.8% (Powys Teaching) and ranged by LA from 90.4% (Torfaen) to 97.5% (Merthyr Tydfil) (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) was 95.1% this quarter compared to 94.5% last quarter. Uptake ranged by HB from 93.4% (Hywel Dda) to 97.0% (Powys Teaching) and by LA area from 92.5% (Pembrokeshire) to 97.8% (Blaenau Gwent). 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 94.4% this quarter compared to 94.0% last quarter. Uptake ranged by HB from 91.6% (Cardiff and Vale) to 97.3% (Powys Teaching) and by LA from 90.7% (Cardiff) to 97.8% (Blaenau Gwent). Four 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 95.2% this quarter compared to 94.6% last quarter. Uptake ranged by HB from 93.6% (Cardiff and Vale) to 97.7% (Powys Teaching) and ranged by LA from 93.1% (Cardiff) to 97.8% (Blaenau Gwent). 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 increased to 94.6% this quarter compared to 94.3% last quarter. Uptake ranged by HB from 92.7% (Cardiff and Vale) to 97.7% (Powys Teaching), and ranged by LA from 91.9% (Cardiff) to 97.8% (Blaenau Gwent). 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 90.7%
 - The Hib/MenC booster was 96.0%
 - Two doses of MMR was 90.3%

The proportion of children who were up to date with all these routine immunisations at four years of age was 89.2%. This ranged by HB from 87.3% (Cardiff and Vale) to 92.1% (Betsi Cadwaladr) and by LA from 82.1% (Newport) to 96.0% (Anglesey) (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 was 90.9% this quarter compared to 90.8% last quarter. This ranged by HB from 88.5% (Hywel Dda) to 93.7% (Betsi Cadwaladr) (Table 6).
11. In children reaching five years of age this quarter, coverage of one dose of MMR was 96.7%. Coverage of two doses of MMR was 92.4%. Coverage of two doses of MMR ranged by HB from 90.0% (Hywel Dda) to 94.8% (Betsi Cadwaladr) and by LA from 85.0% (Pembrokeshire) to 97.1% (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 90.9% (Hywel Dda) to 95.2% (Powys Teaching) and by LA from 85.6% (Pembrokeshire) to 96.5% (Anglesey). Five 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 children in the 2019-20 school year 8 group (turning 13 years of age during 01/09/19 to 31/08/20) is currently 29.6%, 31.3% for girls and 28.0% for boys. This is the second time uptake has been reported for boys after the extension of the HPV vaccination programme (Table 8) [1]. Timings of school vaccination sessions vary throughout the year and uptake will increase as paused vaccination sessions are re-started in schools following COVID-19 measures.
14. Coverage of the first dose of HPV vaccine in 2019-20 school year 9 girls is currently 87.3% and uptake of the second dose in this age group is currently 28.4%. Timings of school vaccination sessions vary throughout the year and uptake will increase as vaccination sessions are re-started in schools. Coverage of a complete two dose course of HPV vaccine in 2019-20 school year 10 girls (girls reaching their 15th birthday during 01/09/19 to 31/08/20) is currently 83.5% (Table 9).
15. Current uptake of the MenACWY vaccine in the 2019-20 routine school year 9 cohort is 56.3% and will increase as vaccination sessions are re-started in schools (Table 10 and 11). Coverage in the 2019-20 school years 10, 11 and 12, is currently 85.5%, 85.7% and 85.2% respectively (Table 10).
16. Uptake of the Td/IPV⁴ teenage booster in the 2019-20 school year 9 (children reaching 14 years of age) is currently 56.4%. Coverage of two doses of MMR in this year group is currently 91.5% and coverage of one dose is 95.2%. Coverage of two doses of MMR vaccine ranged by HB from 89.1% (Cardiff and Vale and Powys Teaching) to 92.9% (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 91.8% (Table 11).
17. Coverage of the Td/IPV teenage booster in the 2019-20 school year 10 (children reaching 15 years of age) is currently 85.4%. Coverage ranged by HB from 77.3% (Cardiff and Vale) to 91.9% (Swansea Bay). Coverage of two doses of MMR in this year group was 91.7% and coverage of one dose was 95.3%. Coverage of two doses of MMR vaccine ranged by HB from 89.6% (Cardiff and Vale and Powys) to 93.8% (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 12).
18. Coverage of the Td/IPV teenage booster in the 2019-20 school year 11 (children reaching 16 years of age) is currently 85.5%. Coverage ranged by HB from 78.3% (Cardiff and Vale) to 90.5% (Swansea Bay). Coverage of two doses of MMR in this year group was 91.5% and coverage of one dose was 95.1%. Coverage of two doses of MMR vaccine ranged by HB from 88.3% (Cardiff & Vale) to 93.4% (Aneurin Bevan). Coverage of a full course of immunisation against rubella (two doses of MMR) in 16 year old girls in this school year group was 91.9% (Table 13).
19. Coverage of two doses of MMR in children reaching 16 years of age this quarter (between 1st January 2020 and 31st March 2020) was 91.3%, whilst coverage of one dose of MMR was 94.9%. Coverage of a full course of immunisation against rubella (two doses of MMR) in 16

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

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

year old girls was 91.8%. National coverage of the Td/IPV teenage booster in children reaching 16 years of age this quarter was 85.8% (Figures 1, 2 and 3, Tables 2 and 14).

- 20.** Uptake of BCG immunisation is presented in Table 15. These data are based on BCG immunisations recorded in the National Community Child Health Database. BCG immunisation has been received by 4.3%, 7.6%, 8.7% and 5.2% of children reaching their first, second, fifth and 16th birthdays (respectively) during quarter one of 2020. This quarter Newport LA had the highest proportion of children given BCG by one year of age (14.6%) and Cardiff LA by two years of age (21.0%).⁵
- 21.** 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 16. This quarter uptake of three doses of hepatitis B vaccine at their first birthday was 92.9%, uptake of four doses⁶ at their second birthday was 81.3% and uptake of four doses at their fifth birthday was 90.5%. 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.

⁶ Uptake of the fourth dose refers to uptake of the monovalent hepatitis B vaccine due at one year of age. Two year olds in this report were eligible for the "6 in 1" vaccine that replaced the "5 in 1" vaccine in August 2017. These children would have received two doses of monovalent hepatitis B vaccine followed by three doses of DTaP/IPV/Hib/HepB and one dose of monovalent vaccine at one year of age to ensure protection against Hepatitis B infection.

Comment

For the quarter January to March 2020 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 the first MMR dose in two years olds increased to just above 95% for the first time since 2017 quarter 1. Uptake of the third scheduled dose of meningococcal group B and the Hib/MenC vaccine remains below 95%.

The proportion of children who were up to date with their routine immunisations by four years of age was 89.2%, the highest seen since this measure was first reported on. Uptake continues to vary by HB and uptake of two doses of MMR vaccine remains the lowest of all vaccinations included in this composite measure.

This is the second quarterly report to include uptake of HPV vaccine for boys following the extension of the HPV vaccination programme in September 2019 [1]. A small proportion of both girls and boys have been vaccinated so far in this school year with similar uptakes in both groups; timings of school vaccination sessions vary throughout the year and uptake will increase when further vaccination sessions take place.

Continuation of childhood immunisation programmes are essential during the coronavirus pandemic due to potential resurgence of disease these vaccinations protect against, once social distancing measures are lifted. Prioritisation should be given to maintaining infant and pre-school programmes [2]. School immunisation sessions for school age children are currently suspended, affecting routine Td/IPV, MenACWY and HPV vaccination, and opportunistic MMR catch up.

It is too early to assess the impact of the COVID-19 pandemic on the uptake of childhood immunisation using routine COVER reports. However, the Vaccine Preventable Disease Programme are developing a monthly enhanced immunisation report to monitor the early impact on uptake of routine childhood immunisations across Wales.

There has been a general decrease in notifications of vaccine preventable diseases, likely in response to the lack of social mixing as a result of COVID-19 control measures. This includes mumps, which had recently seen the highest number of weekly notifications in over 10 years [3]. As social distancing measures are eased increases in notifications and confirmations of diseases such as mumps and measles will be monitored closely.

References

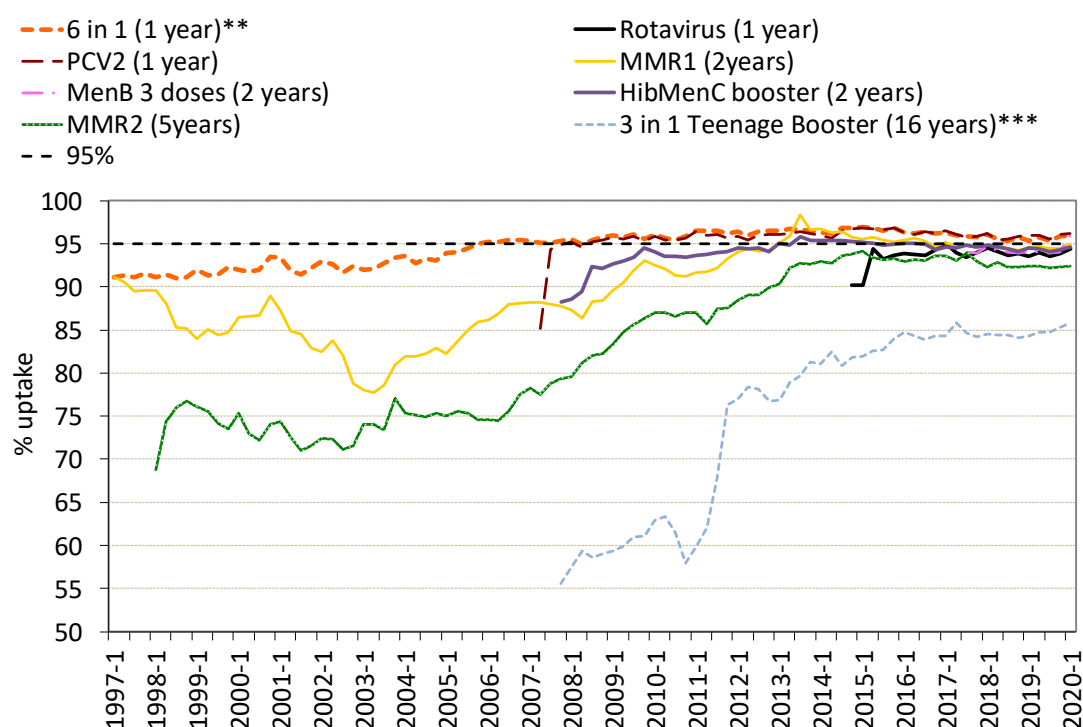
1. Welsh Health Circular- Changes to the HPV immunisation programme from the academic school year starting September 2019. Available from: [http://www.gpone.wales.nhs.uk/sitesplus/documents/1000/WHC%202019%20020%20%27Change%20to%20the%20Human%20Papillomavirus%20\(HPV\)%20Immunisation%20Programme%27%20-%20English.pdf](http://www.gpone.wales.nhs.uk/sitesplus/documents/1000/WHC%202019%20020%20%27Change%20to%20the%20Human%20Papillomavirus%20(HPV)%20Immunisation%20Programme%27%20-%20English.pdf)
2. Welsh Health Circular- COVID-19 response – continuation of immunisation programmes. April 2020. Available from: http://nww.immunisation.wales.nhs.uk/sitesplus/documents/1124/WHC2020-006%20-%20COVID-19%20Response%20-%20Continuation%20of%20Immunisation%20Programmes_pdf_English_amended.pdf
3. Public Health Wales Weekly Notification of Mumps Dashboard. May 2020: <https://public.tableau.com/profile/public.health.wales.health.protection#!/vizhome/NotificationsofMUMPSinWales2014-2017/Dashboard2>

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 1 2020*.

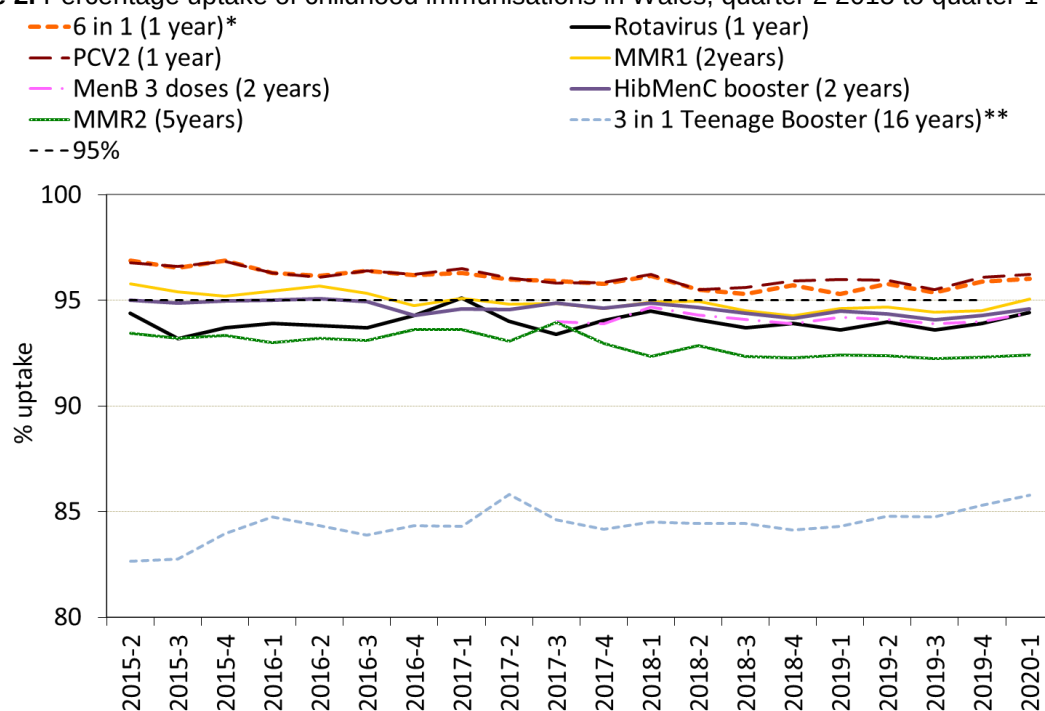


*Uptake data for quarter 3 2014 to quarter 4 2014 presented here are based on estimates calculated in August 2015, rather than published data, due to data quality problems affecting reported uptake of some immunisations in reports published during this period.

**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 1 2020**



* 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 01/01/20 and 31/03/20 and resident on 31/03/20.

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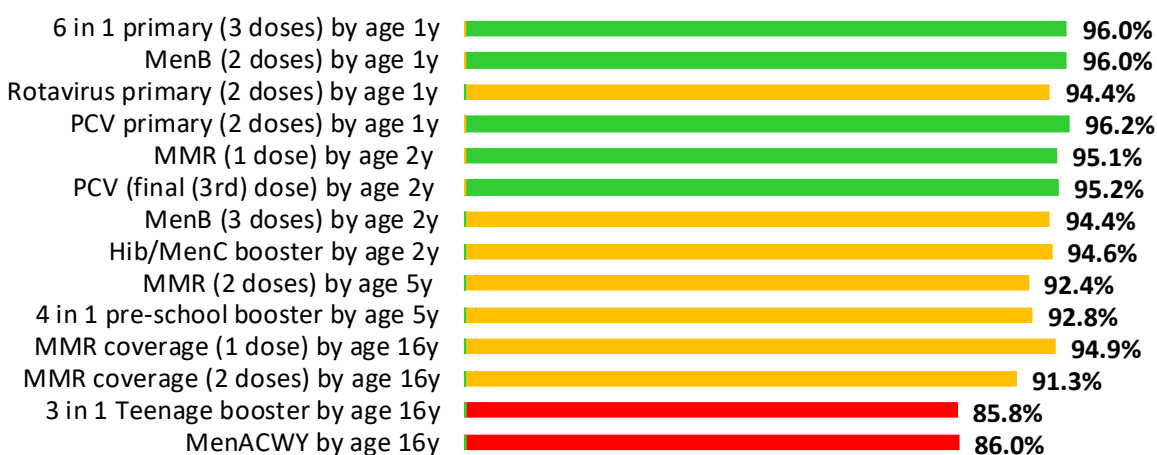


Figure 4. Percentage uptake of resident children reaching their 4th birthday between 01/01/20 and 31/03/20 and are up to date with all scheduled vaccines⁷ by health board.

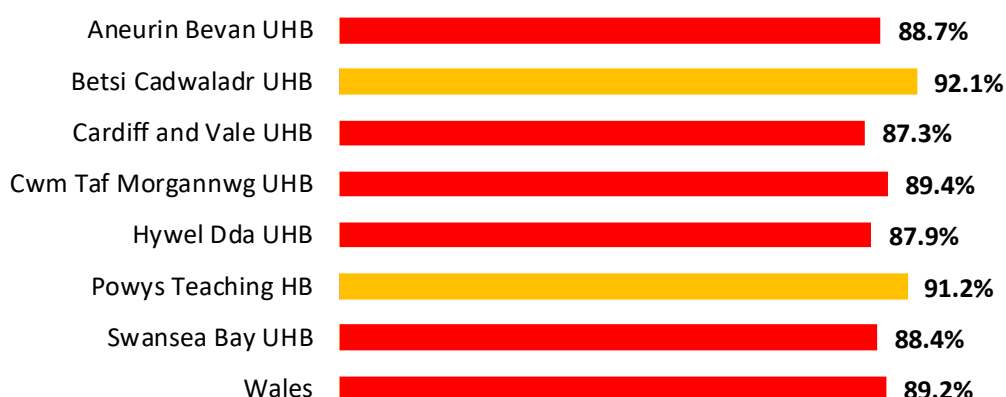
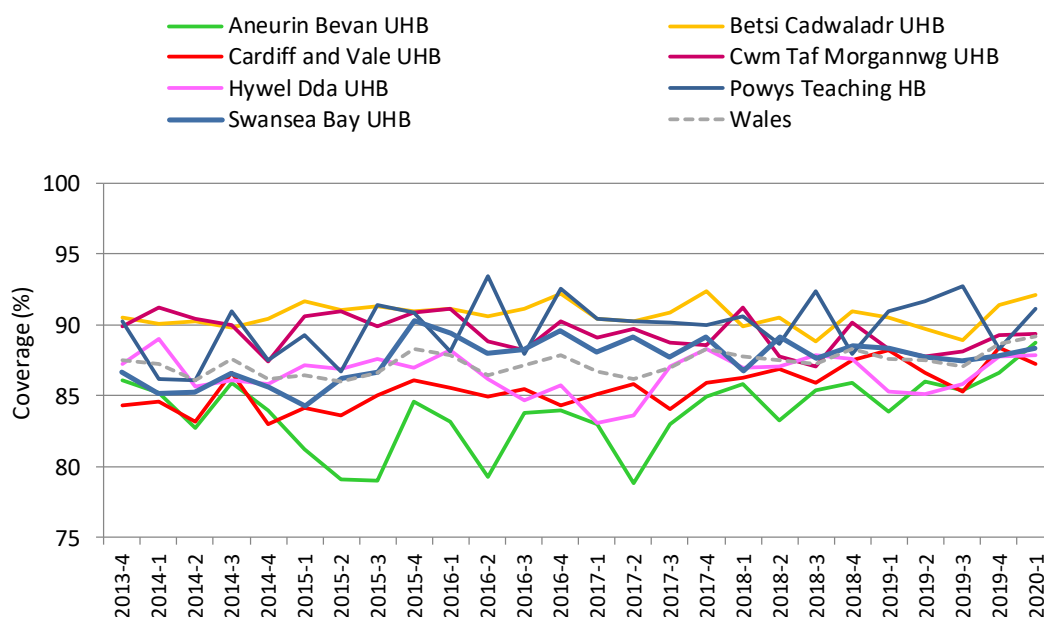


Table 1. Percentages of resident children reaching their 4th birthday during quarter 1 2019 to quarter 1 2020 who are up to date with all scheduled vaccines⁷, by Health Board.

Area	2019-1	2019-2	2019-3	2019-4	2020-1
Aneurin Bevan UHB	83.9	86.0	85.8	86.6	88.7
Betsi Cadwaladr UHB	90.6	89.7	89.4	91.4	92.1
Cardiff and Vale UHB	88.2	86.6	85.7	88.4	87.3
Cwm Taf Morgannwg UHB	88.3	87.8	88.4	89.3	89.4
Hywel Dda UHB	85.3	85.1	86.1	87.8	87.9
Powys Teaching HB	91.0	91.6	92.4	88.3	91.2
Swansea Bay UHB	88.4	87.7	88.0	87.8	88.4
Wales	87.6	87.5	87.4	88.7	89.2

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

Figure 5. Trends in the percentages of children reaching their 4th birthday during quarter 4 2013 to quarter 1 2020, 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 01/01/20 and 31/03/20.

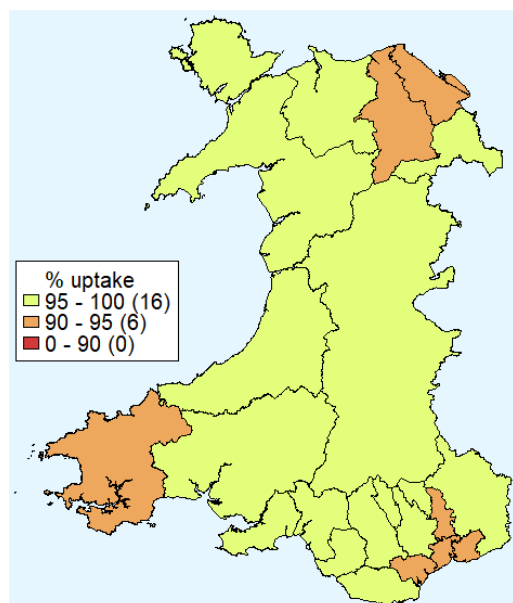


Figure 7. Uptake of at least one dose of MMR immunisation in Welsh Local Authority areas in children reaching their 2nd birthday between 01/01/20 and 31/03/20.

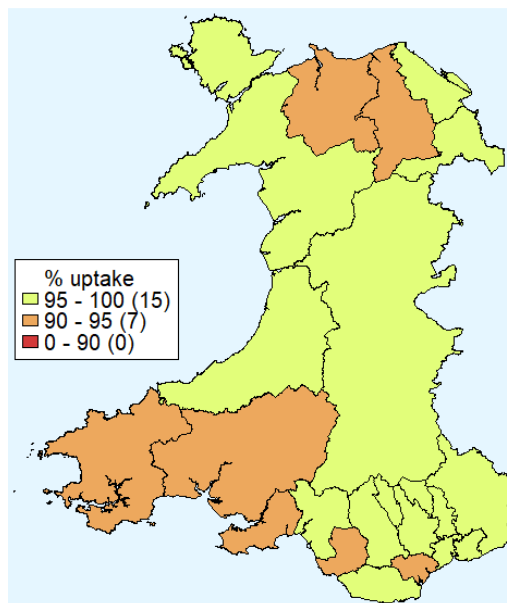


Figure 8. Uptake of two doses of MMR vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/01/20 and 31/03/20.

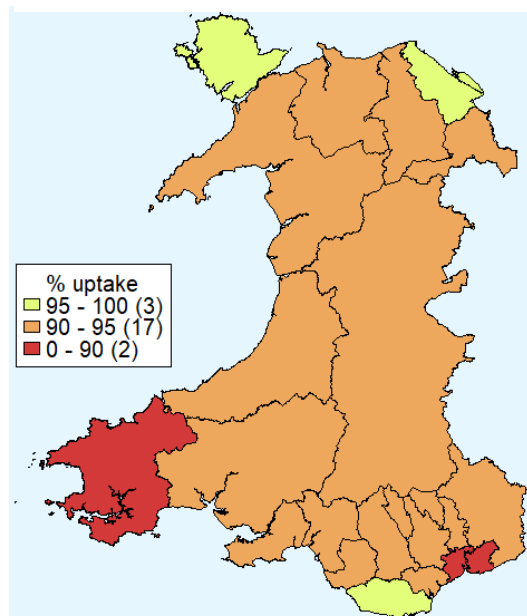


Figure 9. Uptake of “4 in 1” vaccine in Welsh Local Authority areas in children reaching their 5th birthday between 01/01/20 and 31/03/20.

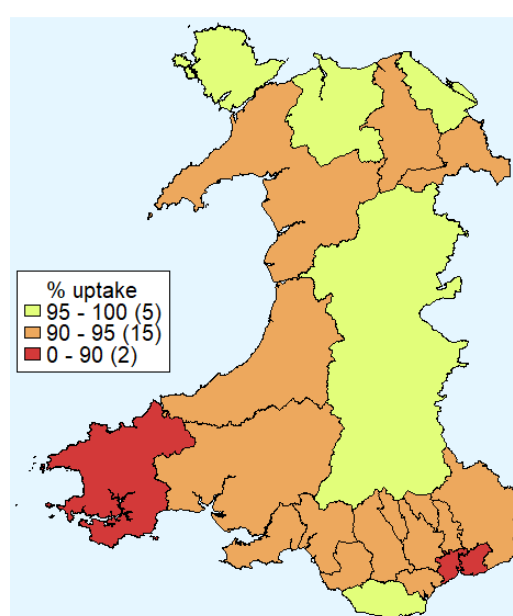


Table 2. Summary table with uptake of selected immunisations in resident children reaching their 1st, 2nd, 4th, 5th and 16th birthday between 01/01/20 and 31/03/20 and resident on 31/03/20.

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	167	98.8	98.8	98.8	97.0	179	97.8	97.8	97.8	97.8	161	90.7	200	92.5	92.5	177	97.2	94.9	89.3	89.8
Caerphilly LA	430	97.0	98.1	98.1	94.7	477	97.3	97.1	97.1	96.4	487	91.4	492	92.9	93.1	555	97.7	95.5	82.7	82.3
Monmouthshire LA	151	96.0	96.7	96.0	94.7	205	95.1	95.1	94.1	94.6	193	95.9	215	93.0	92.6	244	93.0	89.8	77.9	76.6
Newport LA	480	94.4	94.2	94.8	93.1	454	95.4	95.4	94.7	94.3	502	82.1	513	87.7	88.3	471	93.2	89.8	82.2	82.4
Torfaen LA	230	94.3	94.8	94.8	90.4	231	96.5	96.5	96.5	95.7	271	90.0	222	90.5	91.4	272	97.4	93.8	89.0	88.2
Health Board Total	1458	95.8	96.2	96.4	93.8	1546	96.4	96.3	96.0	95.6	1614	88.7	1642	90.9	91.2	1719	95.7	92.8	83.5	83.2
Betsi Cadwaladr UHB																				
Anglesey LA	144	100.0	99.3	100.0	95.1	193	95.9	96.4	95.9	96.4	175	96.0	171	97.1	96.5	175	94.3	92.6	86.9	86.3
Conwy LA	237	96.2	96.2	96.2	94.9	243	93.8	93.8	93.0	92.6	280	91.4	276	94.6	95.3	290	96.6	93.8	92.4	92.8
Denbighshire LA	236	94.9	95.8	95.8	94.1	244	94.3	93.4	93.0	93.0	228	92.1	249	94.0	94.4	260	93.1	89.2	81.2	81.5
Flintshire LA	310	94.5	94.8	94.8	92.6	353	96.9	97.5	97.5	97.5	362	91.2	374	96.3	95.7	385	94.8	90.9	85.2	86.0
Gwynedd LA	220	98.6	98.6	98.6	97.3	297	94.9	95.6	95.3	96.0	285	91.2	262	94.3	94.3	269	95.9	93.7	88.1	87.0
Wrexham LA	334	97.6	97.3	97.6	95.5	348	95.1	95.7	94.5	95.1	362	92.3	359	93.3	94.7	334	95.5	93.1	85.0	85.0
Health Board Total	1481	96.7	96.8	96.9	94.8	1678	95.2	95.5	95.0	95.2	1692	92.1	1691	94.8	95.1	1713	95.1	92.2	86.4	86.5
Cardiff and Vale UHB																				
Cardiff LA	922	93.9	93.3	94.1	91.6	984	92.7	93.1	90.7	91.9	1053	85.9	1054	92.0	92.1	924	92.7	88.5	76.6	76.3
Vale of Glamorgan LA	294	95.6	95.9	95.6	94.6	336	95.8	94.9	94.3	95.2	339	91.4	365	95.1	95.9	353	94.9	88.4	84.1	85.3
Health Board Total	1216	94.3	93.9	94.5	92.4	1320	93.5	93.6	91.6	92.7	1392	87.3	1419	92.8	93.1	1277	93.3	88.5	78.7	78.8
Cwm Taf Morgannwg UHB																				
Bridgend LA	374	97.1	97.3	97.1	94.7	375	94.7	95.5	95.2	94.4	384	87.5	361	92.8	93.1	399	96.0	91.2	85.0	84.7
Merthyr Tydfil LA	162	96.9	96.3	96.3	97.5	161	95.7	95.7	95.7	94.4	179	87.7	183	91.3	90.7	165	95.2	90.9	89.1	89.1
Rhondda Cynon Taf LA	637	97.2	97.0	97.2	96.1	578	96.7	96.5	96.5	96.5	743	90.7	668	93.0	93.3	646	95.5	92.1	93.8	93.7
Health Board Total	1173	97.1	97.0	97.0	95.8	1114	95.9	96.1	96.0	95.5	1306	89.4	1212	92.7	92.8	1210	95.6	91.7	90.2	90.1
Hywel Dda UHB																				
Carmarthenshire LA	401	95.8	96.0	96.0	95.5	458	93.0	93.9	91.9	93.0	496	88.1	492	92.3	93.3	504	95.8	92.7	85.9	86.1
Ceredigion LA	142	97.2	97.2	97.2	95.1	146	96.6	95.9	94.5	95.9	172	92.4	177	93.2	94.4	171	94.2	92.4	86.0	87.7
Pembrokeshire LA	276	94.2	94.9	94.9	93.8	279	92.5	93.2	92.1	92.1	291	84.9	334	85.0	85.6	321	94.4	91.6	86.0	84.4
Health Board Total	819	95.5	95.8	95.8	94.9	883	93.4	94.0	92.4	93.2	959	87.9	1003	90.0	90.9	996	95.1	92.3	85.9	85.8
Powys Teaching UHB																				
Health Board Total	247	98.4	97.2	97.6	96.8	263	97.0	97.7	97.3	97.7	295	91.2	273	94.1	95.2	341	92.4	87.1	91.8	91.8
Swansea Bay UHB																				
Neath Port Talbot LA	330	97.0	97.0	97.3	96.4	386	95.3	96.4	96.1	95.6	381	91.6	364	92.0	92.6	364	95.9	92.3	90.7	89.3
Swansea LA	531	95.5	95.3	95.9	94.2	604	94.4	93.9	93.0	93.0	644	86.5	605	91.9	92.1	627	95.2	90.6	92.2	91.5
Health Board Total	861	96.1	95.9	96.4	95.0	990	94.7	94.8	94.2	94.0	1025	88.4	969	92.0	92.3	991	95.5	91.2	91.6	90.7
Unknown	2	50.0	50.0	50.0	50.0	5	100.0	60.0	80.0	80.0	4	50.0	6	83.3	83.3	24	91.7	83.3	83.3	83.3
Wales Total	7257	96.0	96.0	96.2	94.4	7799	95.1	95.2	94.4	94.6	8287	89.2	8215	92.4	92.8	8271	94.9	91.3	86.0	85.8

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 01/01/20 and 31/03/20 and resident on 31/03/20.

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	167	165	98.8	165	98.8	165	98.8	165	98.8	165	98.8	165	98.8	0	0.0	162	97.0	165	98.8	165	98.8	0	0.0
Caerphilly LA	430	417	97.0	417	97.0	417	97.0	417	97.0	417	97.0	417	97.0	0	0.0	407	94.7	422	98.1	422	98.1	0	0.0
Monmouthshire LA	151	145	96.0	145	96.0	145	96.0	145	96.0	145	96.0	145	96.0	1	0.7	143	94.7	145	96.0	146	96.7	0	0.0
Newport LA	480	453	94.4	453	94.4	453	94.4	453	94.4	453	94.4	453	94.4	3	0.6	447	93.1	455	94.8	452	94.2	1	0.2
Torfaen LA	230	217	94.3	217	94.3	217	94.3	217	94.3	217	94.3	217	94.3	0	0.0	208	90.4	218	94.8	218	94.8	0	0.0
Health Board Total	1458	1397	95.8	1397	95.8	1397	95.8	1397	95.8	1397	95.8	1397	95.8	4	0.3	1367	93.8	1405	96.4	1403	96.2	1	0.1
<u>Betsi Cadwaladr University HB</u>																							
Anglesey LA	144	144	100.0	144	100.0	144	100.0	144	100.0	144	100.0	144	100.0	0	0.0	137	95.1	144	100.0	143	99.3	0	0.0
Conwy LA	237	228	96.2	228	96.2	228	96.2	228	96.2	228	96.2	228	96.2	1	0.4	225	94.9	228	96.2	228	96.2	1	0.4
Denbighshire LA	236	224	94.9	224	94.9	224	94.9	224	94.9	224	94.9	224	94.9	0	0.0	222	94.1	226	95.8	226	95.8	1	0.4
Flintshire LA	310	293	94.5	293	94.5	293	94.5	292	94.2	292	94.2	293	94.5	1	0.3	287	92.6	294	94.8	294	94.8	1	0.3
Gwynedd LA	220	217	98.6	217	98.6	217	98.6	217	98.6	217	98.6	217	98.6	1	0.5	214	97.3	217	98.6	217	98.6	1	0.5
Wrexham LA	334	326	97.6	326	97.6	326	97.6	326	97.6	326	97.6	326	97.6	3	0.9	319	95.5	326	97.6	325	97.3	2	0.6
Health Board Total	1481	1432	96.7	1432	96.7	1432	96.7	1431	96.6	1431	96.6	1432	96.7	6	0.4	1404	94.8	1435	96.9	1433	96.8	6	0.4
<u>Cardiff and Vale University HB</u>																							
Cardiff LA	922	866	93.9	866	93.9	866	93.9	866	93.9	866	93.9	867	94.0	2	0.2	845	91.6	868	94.1	860	93.3	1	0.1
Vale of Glamorgan LA	294	281	95.6	281	95.6	281	95.6	281	95.6	281	95.6	281	95.6	4	1.4	278	94.6	281	95.6	282	95.9	2	0.7
Health Board Total	1216	1147	94.3	1147	94.3	1147	94.3	1147	94.3	1147	94.3	1148	94.4	6	0.5	1123	92.4	1149	94.5	1142	93.9	3	0.2
<u>Cwm Taf Morgannwg University HB</u>																							
Bridgend LA	374	363	97.1	363	97.1	363	97.1	363	97.1	363	97.1	363	97.1	0	0.0	354	94.7	363	97.1	364	97.3	0	0.0
Merthyr Tydfil LA	162	157	96.9	157	96.9	157	96.9	157	96.9	157	96.9	157	96.9	0	0.0	158	97.5	156	96.3	156	96.3	0	0.0
Rhondda Cynon Taf LA	637	619	97.2	619	97.2	619	97.2	619	97.2	619	97.2	619	97.2	1	0.2	612	96.1	619	97.2	618	97.0	0	0.0
Health Board Total	1173	1139	97.1	1139	97.1	1139	97.1	1139	97.1	1139	97.1	1139	97.1	1	0.1	1124	95.8	1138	97.0	1138	97.0	0	0.0
<u>Hywel Dda University HB</u>																							
Cardiganshire LA	401	384	95.8	384	95.8	384	95.8	384	95.8	384	95.8	382	95.3	0	0.0	383	95.5	385	96.0	385	96.0	0	0.0
Ceredigion LA	142	138	97.2	138	97.2	138	97.2	138	97.2	138	97.2	138	97.2	1	0.7	135	95.1	138	97.2	138	97.2	1	0.7
Pembrokeshire LA	276	260	94.2	260	94.2	260	94.2	260	94.2	260	94.2	260	94.2	0	0.0	259	93.8	262	94.9	262	94.9	0	0.0
Health Board Total	819	782	95.5	782	95.5	782	95.5	782	95.5	782	95.5	780	95.2	1	0.1	777	94.9	785	95.8	785	95.8	1	0.1
<u>Powys Teaching HB</u>																							
Health Board Total	247	243	98.4	243	98.4	243	98.4	243	98.4	243	98.4	241	97.6	0	0.0	239	96.8	241	97.6	240	97.2	0	0.0
<u>Swansea Bay University HB</u>																							
Neath Port Talbot LA	330	320	97.0	320	97.0	320	97.0	320	97.0	320	97.0	320	97.0	1	0.3	318	96.4	321	97.3	320	97.0	0	0.0
Swansea LA	531	507	95.5	507	95.5	507	95.5	507	95.5	507	95.5	508	95.7	1	0.2	500	94.2	509	95.9	506	95.3	0	0.0
Health Board Total	861	827	96.1	827	96.1	827	96.1	827	96.1	827	96.1	828	96.2	2	0.2	818	95.0	830	96.4	826	95.9	0	0.0
Unknown	2	1	50.0	1	50.0	1	50.0	1	50.0	1	50.0	1	50.0	0	0.0	1	50.0	1	50.0	1	50.0	0	0.0
Wales Total	7257	6968	96.0	6968	96.0	6968	96.0	6967	96.0	6967	96.0	6966	96.0	20	0.3	6853	94.4	6984	96.2	6968	96.0	11	0.2

¹ Full primary two dose course of pneumococcal conjugate vaccine.

² Uptake of 3 doses of meningococcal serogroup B (MenB) vaccine, scheduled at two, four and 12-13 months of age

Table 4. Vaccine uptake in children reaching their 2nd birthday between 01/01/20 and 31/03/20 and resident on 31/03/20.

Area	Resident children	D3	T3	P3	Po3	Hib3	HepB ¹	MMR1	PCV2 ¹	PCVf ²	Men B ³	HibMenC
	(n)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)	(n) (%)
Aneurin Bevan University HB												
Blaenau Gwent LA	179	176 98.3	176 98.3	176 98.3	176 98.3	176 98.3	176 98.3	175 97.8	176 98.3	175 97.8	175 97.8	175 97.8
Caerphilly LA	477	467 97.9	467 97.9	467 97.9	467 97.9	467 97.9	467 97.9	464 97.3	458 96.0	463 97.1	463 97.1	460 96.4
Monmouthshire LA	205	197 96.1	197 96.1	197 96.1	197 96.1	197 96.1	197 96.1	195 95.1	196 95.6	195 95.1	193 94.1	194 94.6
Newport LA	454	431 94.9	431 94.9	431 94.9	431 94.9	431 94.9	431 94.9	433 95.4	427 94.1	433 95.4	430 94.7	428 94.3
Torfaen LA	231	223 96.5	223 96.5	223 96.5	223 96.5	223 96.5	222 96.1	223 96.5	220 95.2	223 96.5	223 96.5	221 95.7
Health Board Total	1546	1494 96.6	1494 96.6	1494 96.6	1494 96.6	1494 96.6	1493 96.6	1490 96.4	1477 95.5	1489 96.3	1484 96.0	1478 95.6
Betsi Cadwaladr University HB												
Anglesey LA	193	187 96.9	187 96.9	187 96.9	186 96.4	186 96.4	187 96.9	185 95.9	184 95.3	186 96.4	185 95.9	186 96.4
Conwy LA	243	234 96.3	234 96.3	234 96.3	234 96.3	234 96.3	234 96.3	228 93.8	230 94.7	228 93.8	226 93.0	225 92.6
Denbighshire LA	244	233 95.5	233 95.5	233 95.5	233 95.5	233 95.5	231 94.7	230 94.3	226 92.6	228 93.4	227 93.0	227 93.0
Flintshire LA	353	345 97.7	345 97.7	345 97.7	345 97.7	345 97.7	344 97.5	342 96.9	344 97.5	344 97.5	344 97.5	344 97.5
Gwynedd LA	297	284 95.6	284 95.6	284 95.6	284 95.6	284 95.6	283 95.3	282 94.9	281 94.6	284 95.6	283 95.3	285 96.0
Wrexham LA	348	334 96.0	334 96.0	334 96.0	334 96.0	334 96.0	333 95.7	331 95.1	327 94.0	333 95.7	329 94.5	331 95.1
Health Board Total	1678	1617 96.4	1617 96.4	1617 96.4	1616 96.3	1616 96.3	1612 96.1	1598 95.2	1592 94.9	1603 95.5	1594 95.0	1598 95.2
Cardiff and Vale University HB												
Cardiff LA	984	935 95.0	935 95.0	935 95.0	935 95.0	935 95.0	928 94.3	912 92.7	911 92.6	916 93.1	892 90.7	904 91.9
Vale of Glamorgan LA	336	326 97.0	326 97.0	326 97.0	326 97.0	326 97.0	326 97.0	322 95.8	325 96.7	319 94.9	317 94.3	320 95.2
Health Board Total	1320	1261 95.5	1261 95.5	1261 95.5	1261 95.5	1261 95.5	1254 95.0	1234 93.5	1236 93.6	1235 93.6	1209 91.6	1224 92.7
Cwm Taf Morgannwg University HB												
Bridgend LA	375	370 98.7	370 98.7	370 98.7	370 98.7	370 98.7	368 98.1	355 94.7	364 97.1	358 95.5	357 95.2	354 94.4
Merthyr Tydfil LA	161	157 97.5	157 97.5	157 97.5	157 97.5	157 97.5	157 97.5	154 95.7	155 96.3	154 95.7	154 95.7	152 94.4
Rhondda Cynon Taf LA	578	566 97.9	566 97.9	566 97.9	566 97.9	566 97.9	565 97.8	559 96.7	565 97.8	558 96.5	558 96.5	558 96.5
Health Board Total	1114	1093 98.1	1093 98.1	1093 98.1	1093 98.1	1093 98.1	1090 97.8	1068 95.9	1084 97.3	1070 96.1	1069 96.0	1064 95.5
Hywel Dda University HB												
Carmarthenshire LA	458	437 95.4	437 95.4	437 95.4	437 95.4	437 95.4	436 95.2	426 93.0	430 93.9	430 93.9	421 91.9	426 93.0
Ceredigion LA	146	140 95.9	140 95.9	140 95.9	140 95.9	140 95.9	139 95.2	141 96.6	137 93.8	140 95.9	138 94.5	140 95.9
Pembrokeshire LA	279	263 94.3	263 94.3	263 94.3	263 94.3	263 94.3	262 93.9	258 92.5	258 92.5	260 93.2	257 92.1	257 92.1
Health Board Total	883	840 95.1	840 95.1	840 95.1	840 95.1	840 95.1	837 94.8	825 93.4	825 93.4	830 94.0	816 92.4	823 93.2
Powys Teaching HB												
Health Board Total	263	259 98.5	259 98.5	259 98.5	259 98.5	259 98.5	257 97.7	255 97.0	258 98.1	257 97.7	256 97.3	257 97.7
Swansea Bay University HB												
Neath Port Talbot LA	386	379 98.2	379 98.2	379 98.2	379 98.2	379 98.2	375 97.2	368 95.3	374 96.9	372 96.4	371 96.1	369 95.6
Swansea LA	604	590 97.7	590 97.7	590 97.7	590 97.7	590 97.7	588 97.4	570 94.4	575 95.2	567 93.9	562 93.0	562 93.0
Health Board Total	990	969 97.9	969 97.9	969 97.9	969 97.9	969 97.9	963 97.3	938 94.7	949 95.9	939 94.8	933 94.2	931 94.0
Unknown	5	5 100.0	5 100.0	5 100.0	5 100.0	5 100.0	5 100.0	5 100.0	5 100.0	3 60.0	4 80.0	4 80.0
Wales Total	7799	7538 96.7	7538 96.7	7538 96.7	7537 96.6	7537 96.6	7510 96.3	7413 95.1	7426 95.2	7426 95.2	7365 94.4	7379 94.6

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 01/01/20 and 31/03/20 and resident on 31/03/20. 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	161	147	91.3	155	96.3	148	91.9	146	90.7
Caerphilly LA	487	450	92.4	473	97.1	451	92.6	445	91.4
Monmouthshire LA	193	186	96.4	192	99.5	185	95.9	185	95.9
Newport LA	502	425	84.7	468	93.2	423	84.3	412	82.1
Torfaen LA	271	251	92.6	261	96.3	246	90.8	244	90.0
Health Board Total	1614	1459	90.4	1549	96.0	1453	90.0	1432	88.7
Betsi Cadwaladr University HB									
Anglesey LA	175	169	96.6	174	99.4	168	96.0	168	96.0
Conwy LA	280	257	91.8	274	97.9	256	91.4	256	91.4
Denbighshire LA	228	211	92.5	222	97.4	211	92.5	210	92.1
Flintshire LA	362	333	92.0	350	96.7	332	91.7	330	91.2
Gwynedd LA	285	264	92.6	275	96.5	265	93.0	260	91.2
Wrexham LA	362	341	94.2	350	96.7	338	93.4	334	92.3
Health Board Total	1692	1575	93.1	1645	97.2	1570	92.8	1558	92.1
Cardiff and Vale University HB									
Cardiff LA	1053	932	88.5	992	94.2	924	87.7	905	85.9
Vale of Glamorgan LA	339	316	93.2	326	96.2	313	92.3	310	91.4
Health Board Total	1392	1248	89.7	1318	94.7	1237	88.9	1215	87.3
Cwm Taf Morgannwg University HB									
Bridgend LA	384	344	89.6	370	96.4	339	88.3	336	87.5
Merthyr Tydfil LA	179	160	89.4	170	95.0	159	88.8	157	87.7
Rhondda Cynon Taf LA	743	686	92.3	720	96.9	682	91.8	674	90.7
Health Board Total	1306	1190	91.1	1260	96.5	1180	90.4	1167	89.4
Hywel Dda University HB									
Carmarthenshire LA	496	445	89.7	474	95.6	444	89.5	437	88.1
Ceredigion LA	172	162	94.2	164	95.3	161	93.6	159	92.4
Pembrokeshire LA	291	253	86.9	274	94.2	252	86.6	247	84.9
Health Board Total	959	860	89.7	912	95.1	857	89.4	843	87.9
Powys Teaching HB									
Health Board Total	295	274	92.9	282	95.6	270	91.5	269	91.2
Swansea Bay University HB									
Neath Port Talbot LA	381	349	91.6	372	97.6	351	92.1	349	91.6
Swansea LA	644	561	87.1	611	94.9	564	87.6	557	86.5
Health Board Total	1025	910	88.8	983	95.9	915	89.3	906	88.4
Unknown	4	3	75.0	3	75.0	2	50.0	2	50.0
Wales Total	8287	7519	90.7	7952	96.0	7484	90.3	7392	89.2

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 01/01/20 and 31/03/20 and resident on 31/03/20. 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	
Aneurin Bevan University HB	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
Blaenau Gwent LA	200	185	92.5	192	96.0	185	92.5	183	91.5
Caerphilly LA	492	458	93.1	468	95.1	457	92.9	450	91.5
Monmouthshire LA	215	199	92.6	199	92.6	200	93.0	195	90.7
Newport LA	513	453	88.3	464	90.4	450	87.7	434	84.6
Torfaen LA	222	203	91.4	208	93.7	201	90.5	196	88.3
Health Board Total	1642	1498	91.2	1531	93.2	1493	90.9	1458	88.8
Betsi Cadwaladr University HB									
Anglesey LA	171	165	96.5	168	98.2	166	97.1	165	96.5
Conwy LA	276	263	95.3	263	95.3	261	94.6	257	93.1
Denbighshire LA	249	235	94.4	240	96.4	234	94.0	234	94.0
Flintshire LA	374	358	95.7	362	96.8	360	96.3	354	94.7
Gwynedd LA	262	247	94.3	254	96.9	247	94.3	242	92.4
Wrexham LA	359	340	94.7	347	96.7	335	93.3	333	92.8
Health Board Total	1691	1608	95.1	1634	96.6	1603	94.8	1585	93.7
Cardiff and Vale University HB									
Cardiff LA	1054	971	92.1	994	94.3	970	92.0	951	90.2
Vale of Glamorgan LA	365	350	95.9	349	95.6	347	95.1	341	93.4
Health Board Total	1419	1321	93.1	1343	94.6	1317	92.8	1292	91.1
Cwm Taf Morgannwg University HB									
Bridgend LA	361	336	93.1	348	96.4	335	92.8	332	92.0
Merthyr Tydfil LA	183	166	90.7	178	97.3	167	91.3	165	90.2
Rhondda Cynon Taf LA	668	623	93.3	645	96.6	621	93.0	612	91.6
Health Board Total	1212	1125	92.8	1171	96.6	1123	92.7	1109	91.5
Hywel Dda University HB									
Carmarthenshire LA	492	459	93.3	468	95.1	454	92.3	447	90.9
Ceredigion LA	177	167	94.4	169	95.5	165	93.2	162	91.5
Pembrokeshire LA	334	286	85.6	302	90.4	284	85.0	279	83.5
Health Board Total	1003	912	90.9	939	93.6	903	90.0	888	88.5
Powys Teaching HB									
Health Board Total	273	260	95.2	261	95.6	257	94.1	253	92.7
Swansea Bay University HB									
Neath Port Talbot LA	364	337	92.6	353	97.0	335	92.0	332	91.2
Swansea LA	605	557	92.1	576	95.2	556	91.9	548	90.6
Health Board Total	969	894	92.3	929	95.9	891	92.0	880	90.8
Unknown	6	5	83.3	6	100.0	5	83.3	5	83.3
Wales Total	8215	7623	92.8	7814	95.1	7592	92.4	7470	90.9

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 01/01/20 and 31/03/20 and resident on 31/03/20.

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)	(%)
<u>Aneurin Bevan University HB</u>															
Blaenau Gwent LA	200	195	97.5	195	97.5	195	97.5	195	97.5	195	97.5	197	98.5	193	96.5
Caerphilly LA	492	476	96.7	476	96.7	476	96.7	476	96.7	476	96.7	473	96.1	470	95.5
Monmouthshire LA	215	204	94.9	204	94.9	204	94.9	204	94.9	204	94.9	202	94.0	198	92.1
Newport LA	513	489	95.3	489	95.3	489	95.3	489	95.3	489	95.3	468	91.2	463	90.3
Torfaen LA	222	217	97.7	217	97.7	217	97.7	217	97.7	217	97.7	213	95.9	211	95
Health Board Total	1642	1581	96.3	1581	96.3	1581	96.3	1581	96.3	1581	96.3	1553	94.6	1535	93.5
<u>Betsi Cadwaladr University HB</u>															
Anglesey LA	171	167	97.7	167	97.7	167	97.7	167	97.7	167	97.7	162	94.7	165	96.5
Conwy LA	276	267	96.7	267	96.7	267	96.7	267	96.7	267	96.7	262	94.9	262	94.9
Denbighshire LA	249	241	96.8	241	96.8	241	96.8	241	96.8	241	96.8	235	94.4	239	96
Flintshire LA	374	368	98.4	368	98.4	368	98.4	368	98.4	368	98.4	353	94.4	362	96.8
Gwynedd LA	262	257	98.1	257	98.1	257	98.1	256	97.7	256	97.7	247	94.3	248	94.7
Wrexham LA	359	351	97.8	351	97.8	351	97.8	351	97.8	351	97.8	340	94.7	341	95
Health Board Total	1691	1651	97.6	1651	97.6	1651	97.6	1650	97.6	1650	97.6	1599	94.6	1617	95.6
<u>Cardiff and Vale University HB</u>															
Cardiff LA	1054	1015	96.3	1015	96.3	1015	96.3	1014	96.2	1010	95.8	961	91.2	968	91.8
Vale of Glamorgan LA	365	359	98.4	359	98.4	359	98.4	359	98.4	358	98.1	351	96.2	350	95.9
Health Board Total	1419	1374	96.8	1374	96.8	1374	96.8	1373	96.8	1368	96.4	1312	92.5	1318	92.9
<u>Cwm Taf Morgannwg University HB</u>															
Bridgend LA	361	351	97.2	351	97.2	351	97.2	351	97.2	351	97.2	344	95.3	344	95.3
Merthyr Tydfil LA	183	180	98.4	180	98.4	180	98.4	180	98.4	180	98.4	179	97.8	178	97.3
Rhondda Cynon Taf LA	668	658	98.5	658	98.5	658	98.5	658	98.5	658	98.5	652	97.6	648	97
Health Board Total	1212	1189	98.1	1189	98.1	1189	98.1	1189	98.1	1189	98.1	1175	96.9	1170	96.5
<u>Hywel Dda University HB</u>															
Carmarthenshire LA	492	480	97.6	480	97.6	480	97.6	480	97.6	480	97.6	468	95.1	469	95.3
Ceredigion LA	177	174	98.3	174	98.3	174	98.3	173	97.7	173	97.7	160	90.4	165	93.2
Pembrokeshire LA	334	311	93.1	311	93.1	311	93.1	311	93.1	311	93.1	304	91.0	293	87.7
Health Board Total	1003	965	96.2	965	96.2	965	96.2	964	96.1	964	96.1	932	92.9	927	92.4
<u>Powys Teaching HB</u>															
Health Board Total	273	264	96.7	264	96.7	264	96.7	264	96.7	264	96.7	257	94.1	260	95.2
<u>Swansea Bay University HB</u>															
Neath Port Talbot LA	364	360	98.9	360	98.9	360	98.9	360	98.9	360	98.9	357	98.1	355	97.5
Swansea LA	605	589	97.4	589	97.4	589	97.4	589	97.4	587	97.0	562	92.9	572	94.5
Health Board Total	969	949	97.9	949	97.9	949	97.9	949	97.9	947	97.7	919	94.8	927	95.7
Unknown	6	6	100.0	6	100.0	6	100.0	6	100.0	6	100.0	6	100.0	6	100
Wales Total	8215	7979	97.1	7979	97.1	7979	97.1	7976	97.1	7969	97.0	7753	94.4	7760	94.5

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 children reaching 13 years of age between 01/09/19 and 31/08/20 (School Year 8) and resident on 31/03/20, with breakdown of coverage for sex.

Area	Resident children	HPV 1 dose		Resident girls	HPV 1 dose (girls)		Resident boys	HPV 1 dose (boys)	
	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)
Aneurin Bevan University HB									
Blaenau Gwent LA	719	2	0.3	387	2	0.5	332	0	0.0
Caerphilly LA	2084	8	0.4	1042	6	0.6	1042	2	0.2
Monmouthshire LA	1043	1	0.1	514	1	0.2	529	0	0.0
Newport LA	2027	7	0.3	981	4	0.4	1045	3	0.3
Torfaen LA	1121	3	0.3	542	1	0.2	579	2	0.3
Health Board Total	6994	21	0.3	3466	14	0.4	3527	7	0.2
Betsi Cadwaladr University HB									
Anglesey LA	773	155	20.1	369	79	21.4	404	76	18.8
Conwy LA	1185	185	15.6	588	165	28.1	597	20	3.4
Denbighshire LA	1101	247	22.4	531	140	26.4	569	107	18.8
Flintshire LA	1801	1169	64.9	889	596	67.0	912	573	62.8
Gwynedd LA	1327	942	71.0	652	475	72.9	675	467	69.2
Wrexham LA	1562	584	37.4	742	305	41.1	820	279	34.0
Health Board Total	7749	3282	42.4	3771	1760	46.7	3977	1522	38.3
Cardiff and Vale University HB									
Cardiff LA	4388	1624	37.0	2160	832	38.5	2227	792	35.6
Vale of Glamorgan LA	1609	438	27.2	771	202	26.2	838	236	28.2
Health Board Total	5997	2062	34.4	2931	1034	35.3	3065	1028	33.5
Cwm Taf Morgannwg University HB									
Bridgend LA	1741	3	0.2	846	0	0.0	895	3	0.3
Merthyr Tydfil LA	711	0	0.0	328	0	0.0	383	0	0.0
Rhondda Cynon Taf LA	2845	23	0.8	1345	10	0.7	1499	13	0.9
Health Board Total	5297	26	0.5	2519	10	0.4	2777	16	0.6
Hywel Dda University HB									
Carmarthenshire LA	2128	96	4.5	1056	49	4.6	1070	47	4.4
Ceredigion LA	710	574	80.8	350	296	84.6	360	278	77.2
Pembrokeshire LA	1400	689	49.2	684	370	54.1	716	319	44.6
Health Board Total	4238	1359	32.1	2090	715	34.2	2146	644	30.0
Powys Teaching HB									
Health Board Total	1302	29	2.2	630	14	2.2	672	15	2.2
Swansea Bay University HB									
Neath Port Talbot LA	1618	1429	88.3	789	712	90.2	829	717	86.5
Swansea LA	2715	2429	89.5	1325	1229	92.8	1390	1200	86.3
Health Board Total	4333	3858	89.0	2114	1941	91.8	2219	1917	86.4
Unknown	88	21	23.9	41	13	31.7	47	8	17.0
Wales Total	35998	10658	29.6	17562	5501	31.3	18430	5157	28.0

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

Table 9. Uptake of HPV vaccine in girls reaching 13, 14 and 15 years of age between 01/09/19 and 31/08/20 and resident on 31/03/20.

Area	13 years (2019-20 School Year 8) ¹			14 years (2019-20 School Year 9) ¹					15 years (2019-20 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	387	2	0.5	410	353	86.1	4	1.0	346	314	90.8	288	83.2
Caerphilly LA	1042	6	0.6	1027	801	78.0	9	0.9	1013	929	91.7	855	84.4
Monmouthshire LA	514	1	0.2	521	416	79.8	4	0.8	520	415	79.8	372	71.5
Newport LA	981	4	0.4	959	778	81.1	10	1.0	957	795	83.1	735	76.8
Torfaen LA	542	1	0.2	550	473	86.0	3	0.5	550	479	87.1	430	78.2
Health Board Total	3466	14	0.4	3467	2821	81.4	30	0.9	3386	2932	86.6	2680	79.1
<u>Betsi Cadwaladr University HB</u>													
Anglesey LA	369	79	21.4	335	287	85.7	65	19.4	344	297	86.3	272	79.1
Conwy LA	588	165	28.1	587	519	88.4	163	27.8	536	489	91.2	458	85.4
Denbighshire LA	531	140	26.4	544	453	83.3	118	21.7	534	473	88.6	427	80.0
Flintshire LA	889	596	67.0	827	698	84.4	413	49.9	808	730	90.3	647	80.1
Gwynedd LA	652	475	72.9	683	620	90.8	528	77.3	633	567	89.6	549	86.7
Wrexham LA	742	305	41.1	773	655	84.7	324	41.9	737	668	90.6	610	82.8
Health Board Total	3771	1760	46.7	3749	3232	86.2	1611	43.0	3592	3224	89.8	2963	82.5
<u>Cardiff and Vale University HB</u>													
Cardiff LA	2160	832	38.5	2010	1690	84.1	752	37.4	1995	1757	88.1	1632	81.8
Vale of Glamorgan LA	771	202	26.2	741	674	91.0	120	16.2	756	683	90.3	656	86.8
Health Board Total	2931	1034	35.3	2751	2364	85.9	872	31.7	2751	2440	88.7	2288	83.2
<u>Cwm Taf Morgannwg University HB</u>													
Bridgend LA	846	0	0.0	792	712	89.9	2	0.3	795	725	91.2	664	83.5
Merthyr Tydfil LA	328	0	0.0	322	291	90.4	1	0.3	355	331	93.2	305	85.9
Rhondda Cynon Taf LA	1345	10	0.7	1405	1305	92.9	15	1.1	1400	1307	93.4	1232	88.0
Health Board Total	2519	10	0.4	2519	2308	91.6	18	0.7	2550	2363	92.7	2201	86.3
<u>Hywel Dda University HB</u>													
Carmarthenshire LA	1056	49	4.6	1002	894	89.2	58	5.8	986	897	91.0	853	86.5
Ceredigion LA	350	296	84.6	300	264	88.0	177	59.0	292	253	86.6	243	83.2
Pembrokeshire LA	684	370	54.1	620	546	88.1	276	44.5	612	544	88.9	499	81.5
Health Board Total	2090	715	34.2	1922	1704	88.7	511	26.6	1890	1694	89.6	1595	84.4
<u>Powys Teaching HB</u>													
Health Board Total	630	14	2.2	662	578	87.3	24	3.6	658	566	86.0	520	79.0
<u>Swansea Bay University HB</u>													
Neath Port Talbot LA	789	712	90.2	804	773	96.1	695	86.4	822	779	94.8	752	91.5
Swansea LA	1325	1229	92.8	1229	1152	93.7	1092	88.9	1173	1079	92.0	1045	89.1
Health Board Total	2114	1941	91.8	2033	1925	94.7	1787	87.9	1995	1858	93.1	1797	90.1
Unknown	41	13	31.7	37	30	81.1	11	29.7	45	38	84.4	37	82.2
Wales Total	17562	5501	31.3	17140	14962	87.3	4864	28.4	16867	15115	89.6	14081	83.5

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

Table 10. Uptake of MenACWY vaccine in teenagers reaching 14, 15, 16 and 17 years of age between 01/09/19 and 31/08/20 and resident on 31/03/20.

Area	14 years (2019-20 School Year 9) ¹			15 years (2019-20 School Year 10)			16 years (2019-20 School Year 11) ¹			17 years (2019-20 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	778	596	76.6	687	601	87.5	755	673	89.1	694	595	85.7
Caerphilly LA	2130	1584	74.4	2072	1794	86.6	2150	1813	84.3	2079	1759	84.6
Monmouthshire LA	1074	683	63.6	1087	869	79.9	1148	911	79.4	1106	893	80.7
Newport LA	1917	1408	73.4	1910	1582	82.8	1908	1512	79.2	1884	1493	79.2
Torfaen LA	1134	708	62.4	1129	966	85.6	1012	903	89.2	980	831	84.8
Health Board Total	7033	4979	70.8	6885	5812	84.4	6973	5812	83.4	6743	5571	82.6
<u>Betsi Cadwaladr University HB</u>												
Anglesey LA	715	358	50.1	703	555	78.9	730	615	84.2	709	602	84.9
Conwy LA	1227	917	74.7	1176	1036	88.1	1162	1033	88.9	1165	1064	91.3
Denbighshire LA	1095	769	70.2	1109	913	82.3	1096	948	86.5	1050	891	84.9
Flintshire LA	1691	272	16.1	1641	1362	83.0	1673	1443	86.3	1501	1305	86.9
Gwynedd LA	1359	560	41.2	1256	1074	85.5	1171	1022	87.3	1173	1039	88.6
Wrexham LA	1567	754	48.1	1501	1249	83.2	1451	1255	86.5	1422	1218	85.7
Health Board Total	7654	3630	47.4	7386	6189	83.8	7283	6316	86.7	7020	6119	87.2
<u>Cardiff and Vale University HB</u>												
Cardiff LA	4163	2931	70.4	4019	3031	75.4	3790	2887	76.2	3808	2939	77.2
Vale of Glamorgan LA	1507	1172	77.8	1513	1235	81.6	1460	1212	83.0	1506	1239	82.3
Health Board Total	5670	4103	72.4	5532	4266	77.1	5250	4099	78.1	5314	4178	78.6
<u>Cwm Taf Morgannwg University HB</u>												
Bridgend LA	1630	1271	78.0	1701	1544	90.8	1602	1357	84.7	1570	1404	89.4
Merthyr Tydfil LA	697	599	85.9	712	636	89.3	667	591	88.6	672	607	90.3
Rhondda Cynon Taf LA	2863	2230	77.9	2874	2616	91.0	2672	2471	92.5	2821	2548	90.3
Health Board Total	5190	4100	79.0	5287	4796	90.7	4941	4419	89.4	5063	4559	90.0
<u>Hywel Dda University HB</u>												
Carmarthenshire LA	2113	56	2.7	2021	1763	87.2	2007	1764	87.9	2059	1810	87.9
Ceredigion LA	615	213	34.6	657	580	88.3	673	592	88.0	620	535	86.3
Pembrokeshire LA	1374	25	1.8	1241	1044	84.1	1267	1058	83.5	1218	987	81.0
Health Board Total	4102	294	7.2	3919	3387	86.4	3947	3414	86.5	3897	3332	85.5
<u>Powys Teaching HB</u>												
Health Board Total	1325	1076	81.2	1381	1234	89.4	1342	1212	90.3	1334	1128	84.6
<u>Swansea Bay University HB</u>												
Neath Port Talbot LA	1619	468	28.9	1662	1540	92.7	1508	1381	91.6	1438	1280	89.0
Swansea LA	2607	1168	44.8	2532	2334	92.2	2572	2347	91.3	2597	2293	88.3
Health Board Total	4226	1636	38.7	4194	3874	92.4	4080	3728	91.4	4035	3573	88.6
Unknown	83	55	66.3	89	74	83.1	111	90	81.1	89	73	82.0
Wales Total	35283	19873	56.3	34673	29632	85.5	33927	29090	85.7	33495	28533	85.2

¹ 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 2019-20 school year 9 reaching their 14th birthday between 01/09/19 and 31/08/20 and resident on 31/03/20, 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)	(%)	
<u>Aneurin Bevan University HB</u>																						
Blaenau Gwent LA	778	757	97.3	738	94.9	597	76.7	596	76.6	410	404	98.5	394	96.1	368	353	95.9	344	93.5			
Caerphilly LA	2130	2088	98.0	2028	95.2	1582	74.3	1584	74.4	1027	1016	98.9	986	96.0	1103	1072	97.2	1042	94.5			
Monmouthshire LA	1074	1001	93.2	971	90.4	680	63.3	683	63.6	521	491	94.2	478	91.7	553	510	92.2	493	89.2			
Newport LA	1917	1829	95.4	1743	90.9	1419	74.0	1408	73.4	959	920	95.9	882	92.0	957	909	95.0	861	90.0			
Torfaen LA	1134	1098	96.8	1051	92.7	707	62.3	708	62.4	550	530	96.4	512	93.1	584	568	97.3	539	92.3			
Health Board Total	7033	6773	96.3	6531	92.9	4985	70.9	4979	70.8	3467	3361	96.9	3252	93.8	3565	3412	95.7	3279	92.0			
<u>Betsi Cadwaladr University HB</u>																						
Anglesey LA	715	681	95.2	661	92.4	376	52.6	358	50.1	335	319	95.2	310	92.5	380	362	95.3	351	92.4			
Conwy LA	1227	1160	94.5	1134	92.4	915	74.6	917	74.7	587	546	93.0	531	90.5	639	613	95.9	602	94.2			
Denbighshire LA	1095	1048	95.7	1006	91.9	764	69.8	769	70.2	544	524	96.3	498	91.5	551	524	95.1	508	92.2			
Flintshire LA	1691	1599	94.6	1543	91.2	276	16.3	272	16.1	827	774	93.6	748	90.4	864	825	95.5	795	92.0			
Gwynedd LA	1359	1293	95.1	1253	92.2	559	41.1	560	41.2	683	651	95.3	631	92.4	676	642	95.0	622	92.0			
Wrexham LA	1567	1516	96.7	1478	94.3	746	47.6	754	48.1	773	750	97.0	736	95.2	794	766	96.5	742	93.5			
Health Board Total	7654	7297	95.3	7075	92.4	3636	47.5	3630	47.4	3749	3564	95.1	3454	92.1	3904	3732	95.6	3620	92.7			
<u>Cardiff and Vale University HB</u>																						
Cardiff LA	4163	3908	93.9	3671	88.2	2929	70.4	2931	70.4	2010	1884	93.7	1763	87.7	2153	2024	94.0	1908	88.6			
Vale of Glamorgan LA	1507	1445	95.9	1380	91.6	1171	77.7	1172	77.8	741	713	96.2	683	92.2	766	732	95.6	697	91.0			
Health Board Total	5670	5353	94.4	5051	89.1	4100	72.3	4103	72.4	2751	2597	94.4	2446	88.9	2919	2756	94.4	2605	89.2			
<u>Cwm Taf Morgannwg University HB</u>																						
Bridgend LA	1630	1544	94.7	1473	90.4	1271	78.0	1271	78.0	792	753	95.1	724	91.4	837	790	94.4	748	89.4			
Merthyr Tydfil LA	697	664	95.3	641	92.0	599	85.9	599	85.9	322	305	94.7	291	90.4	375	359	95.7	350	93.3			
Rhondda Cynon Taf LA	2863	2744	95.8	2655	92.7	2229	77.9	2230	77.9	1405	1350	96.1	1314	93.5	1458	1394	95.6	1341	92.0			
Health Board Total	5190	4952	95.4	4769	91.9	4099	79.0	4100	79.0	2519	2408	95.6	2329	92.5	2670	2543	95.2	2439	91.3			
<u>Hywel Dda University HB</u>																						
Carmarthenshire LA	2113	1967	93.1	1910	90.4	67	3.2	56	2.7	1002	943	94.1	915	91.3	1111	1024	92.2	995	89.6			
Ceredigion LA	615	580	94.3	566	92.0	216	35.1	213	34.6	300	281	93.7	276	92.0	315	299	94.9	290	92.1			
Pembrokeshire LA	1374	1281	93.2	1214	88.4	30	2.2	25	1.8	620	585	94.4	557	89.8	754	696	92.3	657	87.1			
Health Board Total	4102	3828	93.3	3690	90.0	313	7.6	294	7.2	1922	1809	94.1	1748	90.9	2180	2019	92.6	1942	89.1			
<u>Powys Teaching HB</u>																						
Health Board Total	1325	1240	93.6	1180	89.1	1069	80.7	1076	81.2	662	622	94.0	591	89.3	663	618	93.2	589	88.8			
<u>Swansea Bay University HB</u>																						
Neath Port Talbot LA	1619	1567	96.8	1518	93.8	469	29.0	468	28.9	804	784	97.5	759	94.4	815	783	96.1	759	93.1			
Swansea LA	2607	2488	95.4	2384	91.4	1170	44.9	1168	44.8	1229	1164	94.7	1123	91.4	1378	1324	96.1	1261	91.5			
Health Board Total	4226	4055	96.0	3902	92.3	1639	38.8	1636	38.7	2033	1948	95.8	1882	92.6	2193	2107	96.1	2020	92.1			
Unknown	83	77	92.8	76	91.6	55	66.3	55	66.3	37	35	94.6	35	94.6	46	42	91.3	41	89.1			
Wales Total	35283	33575	95.2	32274	91.5	19896	56.4	19873	56.3	17140	16344	95.4	15737	91.8	18140	17229	95.0	16535	91.2			

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 12. MMR, Td/IPV and MenACWY vaccine uptake in children in 2019-20 school year 10 reaching their 15th birthday between 01/09/19 and 31/08/20 and resident on 31/03/20, 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)	
<u>Aneurin Bevan University HB</u>	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(%)	(n)	(%)
Blaenau Gwent LA	687	668	97.2	654	95.2	602	87.6	601	87.5	346	336	97.1	330	95.4	341	332	97.4	324	95.0
Caerphilly LA	2072	2021	97.5	1970	95.1	1794	86.6	1794	86.6	1013	994	98.1	971	95.9	1059	1027	97.0	999	94.3
Monmouthshire LA	1087	1029	94.7	999	91.9	866	79.7	869	79.9	520	492	94.6	477	91.7	567	537	94.7	522	92.1
Newport LA	1910	1829	95.8	1759	92.1	1574	82.4	1582	82.8	957	917	95.8	886	92.6	950	910	95.8	873	91.9
Torfaen LA	1129	1100	97.4	1074	95.1	979	86.7	966	85.6	550	534	97.1	526	95.6	579	566	97.8	548	94.6
Health Board Total	6885	6647	96.5	6456	93.8	5815	84.5	5812	84.4	3386	3273	96.7	3190	94.2	3496	3372	96.5	3266	93.4
<u>Betsi Cadwaladr University HB</u>																			
Anglesey LA	703	662	94.2	639	90.9	559	79.5	555	78.9	344	325	94.5	311	90.4	359	337	93.9	328	91.4
Conwy LA	1176	1116	94.9	1086	92.3	1029	87.5	1036	88.1	536	511	95.3	499	93.1	640	605	94.5	587	91.7
Denbighshire LA	1109	1035	93.3	994	89.6	904	81.5	913	82.3	534	500	93.6	480	89.9	575	535	93.0	514	89.4
Flintshire LA	1641	1558	94.9	1508	91.9	1356	82.6	1362	83.0	808	770	95.3	743	92.0	833	788	94.6	765	91.8
Gwynedd LA	1256	1212	96.5	1183	94.2	1076	85.7	1074	85.5	633	616	97.3	599	94.6	623	596	95.7	584	93.7
Wrexham LA	1501	1457	97.1	1414	94.2	1243	82.8	1249	83.2	737	714	96.9	687	93.2	764	743	97.3	727	95.2
Health Board Total	7386	7040	95.3	6824	92.4	6167	83.5	6189	83.8	3592	3436	95.7	3319	92.4	3794	3604	95.0	3505	92.4
<u>Cardiff and Vale University HB</u>																			
Cardiff LA	4019	3779	94.0	3571	88.9	3040	75.6	3031	75.4	1995	1889	94.7	1795	90.0	2023	1890	93.4	1776	87.8
Vale of Glamorgan LA	1513	1449	95.8	1383	91.4	1237	81.8	1235	81.6	756	723	95.6	689	91.1	756	726	96.0	694	91.8
Health Board Total	5532	5228	94.5	4954	89.6	4277	77.3	4266	77.1	2751	2612	94.9	2484	90.3	2779	2616	94.1	2470	88.9
<u>Cwm Taf Morgannwg University HB</u>																			
Bridgend LA	1701	1622	95.4	1550	91.1	1537	90.4	1544	90.8	795	763	96.0	736	92.6	906	859	94.8	814	89.8
Merthyr Tydfil LA	712	682	95.8	655	92.0	634	89.0	636	89.3	355	339	95.5	326	91.8	357	343	96.1	329	92.2
Rhondda Cynon Taf LA	2874	2754	95.8	2643	92.0	2622	91.2	2616	91.0	1400	1345	96.1	1297	92.6	1473	1409	95.7	1346	91.4
Health Board Total	5287	5058	95.7	4848	91.7	4793	90.7	4796	90.7	2550	2447	96.0	2359	92.5	2736	2611	95.4	2489	91.0
<u>Hywel Dda University HB</u>																			
Carmarthenshire LA	2021	1923	95.2	1871	92.6	1765	87.3	1763	87.2	986	944	95.7	913	92.6	1035	979	94.6	958	92.6
Ceredigion LA	657	625	95.1	601	91.5	582	88.6	580	88.3	292	275	94.2	263	90.1	365	350	95.9	338	92.6
Pembrokeshire LA	1241	1191	96.0	1131	91.1	1052	84.8	1044	84.1	612	589	96.2	555	90.7	629	602	95.7	576	91.6
Health Board Total	3919	3739	95.4	3603	91.9	3399	86.7	3387	86.4	1890	1808	95.7	1731	91.6	2029	1931	95.2	1872	92.3
<u>Powys Teaching HB</u>																			
Health Board Total	1381	1300	94.1	1237	89.6	1226	88.8	1234	89.4	658	625	95.0	602	91.5	723	675	93.4	635	87.8
<u>Swansea Bay University HB</u>																			
Neath Port Talbot LA	1662	1589	95.6	1508	90.7	1534	92.3	1540	92.7	822	786	95.6	752	91.5	840	803	95.6	756	90.0
Swansea LA	2532	2374	93.8	2273	89.8	2321	91.7	2334	92.2	1173	1104	94.1	1054	89.9	1359	1270	93.5	1219	89.7
Health Board Total	4194	3963	94.5	3781	90.2	3855	91.9	3874	92.4	1995	1890	94.7	1806	90.5	2199	2073	94.3	1975	89.8
Unknown	89	84	94.4	82	92.1	74	83.1	74	83.1	45	42	93.3	42	93.3	44	42	95.5	40	90.9
Wales Total	34673	33059	95.3	31785	91.7	29606	85.4	29632	85.5	16867	16133	95.6	15533	92.1	17800	16924	95.1	16252	91.3

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

Table 13. MMR, Td/IPV and MenACWY vaccine uptake in children in 2019-20 school year 11 reaching their 16th birthday between 01/09/19 and 31/08/20 and resident on 31/03/20, with breakdown of MMR1 and MMR2 coverage by sex

Area	Resident children		Teenage 3 in 1 booster ¹								Resident girls		MMR1 (girls)		MMR2 (girls)		Resident boys		MMR1 (boys)		MMR2 (boys)	
	(n)	(n)	MMR1 (%)	MMR2 (%)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(n)	(n)	(%)	(n)	(%)	(n)	(n)	(n)	(%)	(n)	(%)
Aneurin Bevan University HB																						
Blaenau Gwent LA	755	741	98.1	724	95.9	674	89.3	673	89.1	376	369	98.1	360	95.7	379	372	98.2	364	96.0			
Caerphilly LA	2150	2094	97.4	2043	95.0	1810	84.2	1813	84.3	1016	986	97.0	969	95.4	1133	1107	97.7	1073	94.7			
Monmouthshire LA	1148	1079	94.0	1046	91.1	906	78.9	911	79.4	546	514	94.1	500	91.6	602	565	93.9	546	90.7			
Newport LA	1908	1799	94.3	1740	91.2	1518	79.6	1512	79.2	903	860	95.2	839	92.9	1005	939	93.4	901	89.7			
Torfaen LA	1012	989	97.7	961	95.0	905	89.4	903	89.2	491	480	97.8	465	94.7	521	509	97.7	496	95.2			
Health Board Total	6973	6702	96.1	6514	93.4	5813	83.4	5812	83.4	3332	3209	96.3	3133	94.0	3640	3492	95.9	3380	92.9			
Betsi Cadwaladr University HB																						
Anglesey LA	730	700	95.9	685	93.8	613	84.0	615	84.2	346	332	96.0	326	94.2	384	368	95.8	359	93.5			
Conwy LA	1162	1113	95.8	1066	91.7	1031	88.7	1033	88.9	575	547	95.1	522	90.8	587	566	96.4	544	92.7			
Denbighshire LA	1096	1032	94.2	997	91.0	941	85.9	948	86.5	515	485	94.2	467	90.7	581	547	94.1	530	91.2			
Flintshire LA	1673	1605	95.9	1553	92.8	1435	85.8	1443	86.3	797	775	97.2	751	94.2	876	830	94.7	802	91.6			
Gwynedd LA	1171	1128	96.3	1102	94.1	1025	87.5	1022	87.3	533	518	97.2	506	94.9	638	610	95.6	596	93.4			
Wrexham LA	1451	1386	95.5	1357	93.5	1245	85.8	1255	86.5	699	677	96.9	660	94.4	752	709	94.3	697	92.7			
Health Board Total	7283	6964	95.6	6760	92.8	6290	86.4	6316	86.7	3465	3334	96.2	3232	93.3	3818	3630	95.1	3528	92.4			
Cardiff and Vale University HB																						
Cardiff LA	3790	3525	93.0	3328	87.8	2897	76.4	2887	76.2	1879	1755	93.4	1654	88.0	1911	1770	92.6	1674	87.6			
Vale of Glamorgan LA	1460	1379	94.5	1308	89.6	1214	83.2	1212	83.0	755	711	94.2	676	89.5	705	668	94.8	632	89.6			
Health Board Total	5250	4904	93.4	4636	88.3	4111	78.3	4099	78.1	2634	2466	93.6	2330	88.5	2616	2438	93.2	2306	88.1			
Cwm Taf Morgannwg University HB																						
Bridgend LA	1602	1524	95.1	1436	89.6	1347	84.1	1357	84.7	811	783	96.5	744	91.7	791	741	93.7	692	87.5			
Merthyr Tydfil LA	667	628	94.2	601	90.1	587	88.0	591	88.6	318	294	92.5	280	88.1	348	334	96.0	321	92.2			
Rhondda Cynon Taf LA	2672	2558	95.7	2469	92.4	2466	92.3	2471	92.5	1313	1263	96.2	1217	92.7	1359	1295	95.3	1252	92.1			
Health Board Total	4941	4710	95.3	4506	91.2	4400	89.1	4419	89.4	2442	2340	95.8	2241	91.8	2498	2370	94.9	2265	90.7			
Hywel Dda University HB																						
Carmarthenshire LA	2007	1908	95.1	1843	91.8	1766	88.0	1764	87.9	980	932	95.1	897	91.5	1027	976	95.0	946	92.1			
Ceredigion LA	673	640	95.1	623	92.6	596	88.6	592	88.0	324	310	95.7	301	92.9	349	330	94.6	322	92.3			
Pembrokeshire LA	1267	1194	94.2	1144	90.3	1059	83.6	1058	83.5	636	602	94.7	578	90.9	631	592	93.8	566	89.7			
Health Board Total	3947	3742	94.8	3610	91.5	3421	86.7	3414	86.5	1940	1844	95.1	1776	91.5	2007	1898	94.6	1834	91.4			
Powys Teaching HB																						
Health Board Total	1342	1254	93.4	1198	89.3	1202	89.6	1212	90.3	659	616	93.5	593	90.0	683	638	93.4	605	88.6			
Swansea Bay University HB																						
Neath Port Talbot LA	1508	1444	95.8	1381	91.6	1361	90.3	1381	91.6	744	722	97.0	690	92.7	764	722	94.5	691	90.4			
Swansea LA	2572	2442	94.9	2342	91.1	2331	90.6	2347	91.3	1220	1164	95.4	1114	91.3	1352	1278	94.5	1228	90.8			
Health Board Total	4080	3886	95.2	3723	91.3	3692	90.5	3728	91.4	1964	1886	96.0	1804	91.9	2116	2000	94.5	1919	90.7			
Unknown	111	101	91.0	96	86.5	89	80.2	90	81.1	47	43	91.5	40	85.1	64	58	90.6	56	87.5			
Wales Total	33927	32263	95.1	31043	91.5	29018	85.5	29090	85.7	16483	15738	95.5	15149	91.9	17442	16524	94.7	15893	91.1			

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

Table 14. MMR, Td/IPV and MenACWY vaccine uptake in children reaching their 16th birthday between 01/01/20 and 31/03/20 and resident on 31/03/20, with breakdown of MMR1 and MMR2 coverage by sex

Area	Resident children		Teenage 3 in 1 booster ¹								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)	(n) (%)	(n) (%)	(n)	(n) (%)	(n) (%)	(n) (%)		
<u>Aneurin Bevan University HB</u>																						
Blaenau Gwent LA	177	172	97.2	168	94.9	159	89.8	158	89.3	87	83	95.4	80	92.0	90	89	98.9	88	97.8			
Caerphilly LA	555	542	97.7	530	95.5	457	82.3	459	82.7	250	244	97.6	239	95.6	305	298	97.7	291	95.4			
Monmouthshire LA	244	227	93.0	219	89.8	187	76.6	190	77.9	117	109	93.2	104	88.9	127	118	92.9	115	90.6			
Newport LA	471	439	93.2	423	89.8	388	82.4	387	82.2	223	214	96.0	209	93.7	248	225	90.7	214	86.3			
Torfaen LA	272	265	97.4	255	93.8	240	88.2	242	89.0	137	134	97.8	129	94.2	135	131	97.0	126	93.3			
Health Board Total	1719	1645	95.7	1595	92.8	1431	83.2	1436	83.5	814	784	96.3	761	93.5	905	861	95.1	834	92.2			
<u>Betsi Cadwaladr University HB</u>																						
Anglesey LA	175	165	94.3	162	92.6	151	86.3	152	86.9	83	79	95.2	76	91.6	92	86	93.5	86	93.5			
Conwy LA	290	280	96.6	272	93.8	269	92.8	268	92.4	144	137	95.1	132	91.7	146	143	97.9	140	95.9			
Denbighshire LA	260	242	93.1	232	89.2	212	81.5	211	81.2	113	107	94.7	102	90.3	147	135	91.8	130	88.4			
Flintshire LA	385	365	94.8	350	90.9	331	86.0	328	85.2	187	181	96.8	175	93.6	198	184	92.9	175	88.4			
Gwynedd LA	269	258	95.9	252	93.7	234	87.0	237	88.1	129	127	98.4	124	96.1	140	131	93.6	128	91.4			
Wrexham LA	334	319	95.5	311	93.1	284	85.0	284	85.0	151	148	98.0	144	95.4	183	171	93.4	167	91.3			
Health Board Total	1713	1629	95.1	1579	92.2	1481	86.5	1480	86.4	807	779	96.5	753	93.3	906	850	93.8	826	91.2			
<u>Cardiff and Vale University HB</u>																						
Cardiff LA	924	857	92.7	818	88.5	705	76.3	708	76.6	457	419	91.7	398	87.1	467	438	93.8	420	89.9			
Vale of Glamorgan LA	353	335	94.9	312	88.4	301	85.3	297	84.1	186	177	95.2	166	89.2	167	158	94.6	146	87.4			
Health Board Total	1277	1192	93.3	1130	88.5	1006	78.8	1005	78.7	643	596	92.7	564	87.7	634	596	94.0	566	89.3			
<u>Cwm Taf Morgannwg University HB</u>																						
Bridgend LA	399	383	96.0	364	91.2	338	84.7	339	85.0	196	191	97.4	184	93.9	203	192	94.6	180	88.7			
Merthyr Tydfil LA	165	157	95.2	150	90.9	147	89.1	147	89.1	83	77	92.8	75	90.4	82	80	97.6	75	91.5			
Rhondda Cynon Taf LA	646	617	95.5	595	92.1	605	93.7	606	93.8	295	279	94.6	268	90.8	351	338	96.3	327	93.2			
Health Board Total	1210	1157	95.6	1109	91.7	1090	90.1	1092	90.2	574	547	95.3	527	91.8	636	610	95.9	582	91.5			
<u>Hywel Dda University HB</u>																						
Cardemarthenshire LA	504	483	95.8	467	92.7	434	86.1	433	85.9	249	240	96.4	234	94.0	255	243	95.3	233	91.4			
Ceredigion LA	171	161	94.2	158	92.4	150	87.7	147	86.0	77	73	94.8	73	94.8	94	88	93.6	85	90.4			
Pembrokeshire LA	321	303	94.4	294	91.6	271	84.4	276	86.0	165	157	95.2	153	92.7	156	146	93.6	141	90.4			
Health Board Total	996	947	95.1	919	92.3	855	85.8	856	85.9	491	470	95.7	460	93.7	505	477	94.5	459	90.9			
<u>Powys Teaching HB</u>																						
Health Board Total	341	315	92.4	297	87.1	313	91.8	313	91.8	177	162	91.5	155	87.6	164	153	93.3	142	86.6			
<u>Swansea Bay University HB</u>																						
Neath Port Talbot LA	364	349	95.9	336	92.3	325	89.3	330	90.7	187	182	97.3	178	95.2	177	167	94.4	158	89.3			
Swansea LA	627	597	95.2	568	90.6	574	91.5	578	92.2	289	279	96.5	259	89.6	338	318	94.1	309	91.4			
Health Board Total	991	946	95.5	904	91.2	899	90.7	908	91.6	476	461	96.8	437	91.8	515	485	94.2	467	90.7			
Unknown	24	22	91.7	20	83.3	20	83.3	20	83.3	14	13	92.9	11	78.6	10	9	90.0	9	90.0			
Wales Total	8271	7853	94.9	7553	91.3	7095	85.8	7110	86.0	3996	3812	95.4	3668	91.8	4275	4041	94.5	3885	90.9			

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

Table 15. Uptake of BCG immunisation in children reaching their 1st, 2nd, 5th and 16th birthdays between 01/01/20 and 31/03/20 and resident on 31/03/20.¹

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	
	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)
<u>Aneurin Bevan University HB</u>												
Blaenau Gwent LA	167	2	1.2	179	4	2.2	200	4	2.0	177	1	0.6
Caerphilly LA	430	13	3.0	477	13	2.7	492	19	3.9	555	6	1.1
Monmouthshire LA	151	6	4.0	205	6	2.9	215	7	3.3	244	5	2.0
Newport LA	480	70	14.6	454	85	18.7	513	77	15.0	471	53	11.3
Torfaen LA	230	5	2.2	231	6	2.6	222	6	2.7	272	6	2.2
Health Board Total	1458	96	6.6	1546	114	7.4	1642	113	6.9	1719	71	4.1
<u>Betsi Cadwaladr University HB</u>												
Anglesey LA	144	2	1.4	193	7	3.6	171	2	1.2	175	2	1.1
Conwy LA	237	12	5.1	243	13	5.3	276	17	6.2	290	12	4.1
Denbighshire LA	236	12	5.1	244	16	6.6	249	5	2.0	260	17	6.5
Flintshire LA	310	15	4.8	353	17	4.8	374	10	2.7	385	11	2.9
Gwynedd LA	220	12	5.5	297	11	3.7	262	14	5.3	269	9	3.3
Wrexham LA	334	15	4.5	348	24	6.9	359	27	7.5	334	23	6.9
Health Board Total	1481	68	4.6	1678	88	5.2	1691	75	4.4	1713	74	4.3
<u>Cardiff and Vale University HB</u>												
Cardiff LA	922	16	1.7	984	207	21.0	1054	264	25.0	924	159	17.2
Vale of Glamorgan LA	294	2	0.7	336	21	6.3	365	18	4.9	353	17	4.8
Health Board Total	1216	18	1.5	1320	228	17.3	1419	282	19.9	1277	176	13.8
<u>Cwm Taf Morgannwg Univeristy HB</u>												
Bridgend LA	374	18	4.8	375	19	5.1	361	28	7.8	399	6	1.5
Merthyr Tydfil LA	162	8	4.9	161	3	1.9	183	11	6.0	165	4	2.4
Rhondda Cynon Taf LA	637	22	3.5	578	34	5.9	668	37	5.5	646	13	2.0
Health Board Total	1173	48	4.1	1114	56	5.0	1212	76	6.3	1210	23	1.9
<u>Hywel Dda University HB</u>												
Carmarthenshire LA	401	11	2.7	458	11	2.4	492	24	4.9	504	13	2.6
Ceredigion LA	142	1	0.7	146	7	4.8	177	13	7.3	171	7	4.1
Pembrokeshire LA	276	4	1.4	279	9	3.2	334	7	2.1	321	5	1.6
Health Board Total	819	16	2.0	883	27	3.1	1003	44	4.4	996	25	2.5
<u>Powys Teaching Health Board</u>												
Health Board Total	247	4	1.6	263	5	1.9	273	10	3.7	341	6	1.8
<u>Swansea Bay University HB</u>												
Neath Port Talbot LA	330	8	2.4	386	13	3.4	364	22	6.0	364	5	1.4
Swansea LA	531	54	10.2	604	61	10.1	605	95	15.7	627	48	7.7
Health Board Total	861	62	7.2	990	74	7.5	969	117	12.1	991	53	5.3
Unknown	0	0	0.0	5	0	0.0	6	1	16.7	24	0	0.0
Wales Total	7257	312	4.3	7799	592	7.6	8215	718	8.7	8271	428	5.2

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 16. Uptake of hepatitis B immunisation in children, reaching their 1st, 2nd, and 5th birthdays during between 01/01/20 and 31/03/20 and resident on 31/03/20, 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	1458	2	100.0	100.0	100.0	1546	3	100.0	100.0	100.0	66.7	1642	2	100.0	100.0	100.0	100.0
Betsi Cadwaladr UHB	1481	2	100.0	100.0	100.0	1678	3	100.0	100.0	100.0	100.0	1691	6	100.0	100.0	100.0	100.0
Cardiff and Vale UHB	1216	5	80.0	80.0	80.0	1320	6	100.0	100.0	100.0	66.7	1419	11	100.0	100.0	100.0	81.8
Cwm Taf Morgannwg UHB	1173	1	100.0	100.0	100.0	1114	3	100.0	100.0	100.0	100.0	1212	1	100.0	100.0	100.0	100.0
Hywel Dda UHB	819	0	-	-	-	883	0	-	-	-	-	1003	0	-	-	-	-
Powys Teaching HB	247	1	100.0	100.0	100.0	263	0	-	-	-	-	273	0	-	-	-	-
Swansea Bay UHB	861	3	100.0	100.0	100.0	990	1	100.0	100.0	100.0	100.0	969	1	100.0	100.0	100.0	100.0
Unknown	2	0	-	-	-	5	0	-	-	-	-	6	0	-	-	-	-
Wales Total	7257	14	92.9	92.9	92.9	7799	16	100.0	100.0	100.0	81.3	8215	21	100.0	100.0	100.0	90.5

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 and two 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 and two 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). Dose four for two year olds refers to the monovalent dose due at one year of age.