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Quarterly vaccination coverage statistics for children aged up to five years in the UK (COVER programme): July to September 2017

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Quarterly vaccination coverage statistics for children aged up to five years in the UK (COVER programme): July to September 2017

This report summarises UK quarterly vaccine coverage data for each routine childhood vaccination for children who reached their first, second, or fifth birthday during the evaluation quarter. Analyses are presented at NHS England local and area team, country and UK levels.

Key points for the second quarterly report for 2017/18

- ➤ UK vaccine coverage estimates evaluated for children aged one, two and five years of age in the July to September guarter remain very similar to the previous guarter
- ➤ UK coverage for two doses of Men B vaccine at the first birthday increased by 0.4% to 93.2% when compared to the previous quarter
- ➤ UK coverage at the first birthday for the completed DTaP/IPV/Hib (3 doses) increased by 0.1% to 93.6% and PCV (2 doses) courses increased by 0.2% to 94.0%
- ➤ UK coverage evaluated at two years of age increased by 0.1% to 91.9% for Hib/MenC, and by 0.2% to 91.8% for PCV booster and remained at 91.6% for MMR1
- ➤ At 95.6%, UK coverage of MMR1 at five years continues to exceed the WHO target of 95%UK coverage decreased by 0.1% for MMR2 this quarter to 88.1% but increased 0.4% for the pre-school booster (DTaP/IPV) to 87.6%
- An updated COVER Information Standard Notice (ISN) with related documentation was published by NHS Digital on 23 November 2017. This standard defines what information needs to be extracted from CHISs following recent changes to the national immunisation schedule so that it will comply with future reporting requirements of the COVER programme. Providers must ensure full conformance with this standard by 31 May 2018 to allow vaccine coverage at 12 months for the routine hexavalent vaccine and selective neonatal HepB vaccine and to be reported through the COVER programme from late 2018

1. Cohort definitions for July to September 2017

Children who reached their first birthday in the quarter (born July to September 2016) were scheduled for three doses of the combined diphtheria, tetanus, acellular pertussis, polio, and *Haemophilus influenzae* type b vaccine (DTaP/IPV/Hib vaccine), and two doses of pneumococcal conjugate vaccine (PCV), Meningococcal B vaccine (MenB), and rotavirus vaccine [1].

Children who reached their second birthday in the quarter (born July to September 2015) were scheduled to receive their third DTaP/IPV/Hib, second MenC and PCV vaccinations between August and October 2015, and their first measles, mumps, and rubella (MMR) vaccination, a booster dose of Hib and MenC (given as a combined Hib/MenC vaccine) and PCV vaccines at the same visit at 12 months of age, between August and October 2016.

Children who reached their fifth birthday in the quarter (born July to September 2012) were scheduled to receive their third dose DTaP/IPV/Hib and second MenC and PCV vaccinations between November 2012 and January 2013. They were also scheduled to receive their first MMR, Hib/MenC booster and PCV booster after their first birthday (July to September 2013) between August and October 2013, and their pre-school diphtheria, tetanus, acellular pertussis, inactivated polio booster (DTaP/IPV) and second dose MMR from October 2015.

Children born to hepatitis B surface antigen (HBsAg) positive mothers, who reached their first birthday in this quarter (July to September 2016) were scheduled to receive an initial dose of hepatitis B vaccine at birth, with further doses at one and two months of age, and those who reached their second birthday in this quarter (July to September 2015) were scheduled to receive a fourth dose at one year of age.

Children born in areas where there is a universal neonatal BCG programme (i.e.TB incidence ≥40/100,000 and London boroughs regardless of TB incidence) who reach their first birthday in this quarter (July to September 2016) were scheduled to receive BCG at birth.

The Appendix at the end of this report describes coverage evaluated at the first, second and fifth birthdays by country and NHS England local and area teams.

2. Participation and data quality

Data were received from all Health Boards (HBs) in Scotland, Northern Ireland and Wales. In England, Area Teams (ATs) and Child Health Record Departments (CHRDs) provided data for all upper tier local authorities (LAs). Individual LA data with relevant caveats where applicable are available here.

This is the fifth quarterly COVER report to publish MenB coverage at 12 months and the first to receive data from all 152 LAs.

Four CHIS Hubs providing COVER data the whole of London and the second data submitted from these newly established Hubs reflects a system in transition, therefore changes in LA vaccine coverage in London should be interpreted with caution (see 3.1). London neonatal hepatitis B coverage data has not been included in this COVER report as data migrated from

legacy systems has only provided partial data for those born to HepB positive mothers, resulting in a significant reduction in both the 12 month and 24 month birth cohorts denominators. As almost half of all babies born to HepB positive mothers in the national denominator are in London national coverage estimates at 12 and 24 months have not been calculated either (table 5). This issue may persist until babies born from 1 April 2017 are evaluated (September 2018).

3. Developments in Immunisation data

3.1 NHS Digital Child Health Strategy

The new NHS England Healthy Children: transforming child health information strategy [2] aims to transform child health information services by making these systems interoperable, reducing the administrative burden of information recording and sharing. Part of this programme includes merging CHIS systems into local hubs that can provide COVER data for several LAs in one submission. Since April 2017 four CHIS Hubs are providing COVER data for all London boroughs. In England, the number of CHIS systems has decreased from over 100 in 2015 to around 70 by mid-2017.

3.2 New COVER information standard published

An updated COVER Information Standard Notice (ISN) with related documentation was published on 23 November 2017. This standard defines what information needs to be extracted from CHISs following recent changes to the national immunisation schedule so that it will comply with future reporting requirements of the COVER programme.

From autumn 2017, all babies born on or after 1 August 2017 become eligible for a hexavalent vaccine which includes hepatitis B (HepB) for their primary immunisations. This vaccine, called Infanrix hexa®, will replace the pentavalent infant vaccines Infanrix®-IPV+Hib and Pediacel®. High risk babies (born to HepB surface-antigen positive mothers) are still required to be given monovalent HepB at birth, 4 weeks and 12 months in addition to the routine hexavalent vaccine. More information about the hexavalent vaccine can be found here.

The COVER documentation has been updated to include some minor reporting changes already implemented by CHISs which include (i) the removal of MenC coverage at 12 months, (ii) MenB reporting from 2016, and (iii) confirmation of collection of data at LA upper tier responsible. Providers must ensure full conformance with this standard by 31 May 2018 to allow vaccine coverage at 12 months for the routine hexavalent vaccine and selective neonatal HepB vaccine and to be reported through the COVER programme from late 2018. Documentation related to the new COVER ISN can be found here and the updated COVER user guide can be found here.

4. Results

4.1 Coverage at 12 months

Vaccine coverage for the fifth cohort of children routinely offered MenB vaccine was evaluated in this quarter. UK two-dose MenB coverage (MenB2) increased by 0.4% to 93.2% compared to the previous quarter and ranged from 92.7% in England to 96.4% in Scotland [3]. England MenB2 coverage at local team (LT) level achieved at least 90% in all areas except London. (see LA vaccine coverage statistics).

Compared to the previous quarter UK coverage increased by 0.1% for DTaP/IPV/Hib3 to 93.6%, by 0.2% for PCV to 94.0%, and decreased 0.3% for two-dose rotavirus to 90.5%, (table 1a) [3]. All devolved administrations achieved at least 95% for DTaP/IPV/Hib3, PCV2 and MenB2. In England, coverage was at least 92% for these three vaccines (table 1a).

Coverage at 12 months by former AT level is described in table 1b.

4.2 Coverage at 24 months

Compared to the previous quarter UK coverage for the primary course (three doses) of DTaP/IPV/Hib and Hib/MenC booster evaluated at two years of age increased 0.1% to 95.7% and 91.9% respectively, PCV booster increased by 0.2% to 91.8% and MMR1 remained at 91.6% (table 2a) [3].

Coverage at 24 months by former AT level is described in table 2b.

4.3 Coverage at five years

UK MMR1 coverage decreased 0.2% to 95.6% but continues to exceed to WHO 95% target. UK DTaP/IPV/Hib3 coverage decreased 0.1% to 96.1% (table 3a) At the country level Scotland, Wales and Northern Ireland achieved at least 97%; in England coverage decreased 0.3% to 95.3% overall [3]. Coverage at 5 years for these vaccines primarily reflects children vaccinated four or five years ago.

UK MMR2 coverage decreased by 0.1% this quarter to 88.1% but increased 0.4% for the preschool booster (DTaP/IPV) to 87.6% (table 3a) [3].

Coverage at five years by former AT level is described in table 3b.

4.4 Neonatal hepatitis B vaccine coverage in England

Vaccine coverage data in England for three doses of hepatitis B vaccine, in infants born to hepatitis B surface antigen (HBsAg) positive mothers, who reached the age of one year in this quarter (i.e. those born between July to September 2016), and coverage of four doses of vaccine in infants who reached two years of age (i.e. those born between July to September 2015) are presented by local team in table 4. Data for London is not available this quarter (see Section 2 above) and as almost half of all babies born to HepB positive mothers in the national denominator are in London, national coverage estimates at 12 and 24 months have not been calculated. Since the introduction of the hexavalent vaccine in October 2017, infants born to

hepatitis B surface antigen (HBsAg) positive mothers are scheduled to receive 6 doses of hepatitis B containing vaccine by the age of one year. From the July to September 2018 quarter, COVER will start to report coverage on babies receiving five doses of HepB-containing vaccine by the age of one year (i.e. those born July to September 2017; only those born from 1 August will have been offered five doses) although full data will not be available until the October to December 2018 quarter. Likewise, six doses by the age of two years will start to be evaluated from the July to September 2019 quarter evaluation.

The quality of these data is variable and coverage by former local team relies on small numbers. As such, data should be interpreted with caution. Where an area reported no vaccinated children, a check was made to ensure that this was zero reporting rather than absence of available data.

4.5 Universal BCG programme vaccine coverage in England

The BCG immunisation programme across England is based on risk of exposure to TB. The vaccine is recommended at birth for all children that live in an area that has a TB incidence of higher than 40 per 100,000 population. Due to large cross-boundary movement, the vaccine had been also recommended in all London local authorities, regardless of TB incidence. However, following a shortage in BCG vaccine, the London BCG delivery model has been modified and now only the five boroughs with a high TB incidence (using the 2014-16 average annual TB rate [4]) offer universal BCG vaccination. The 28 remaining boroughs deliver a 'once-only' offer of BCG in hospital. If not vaccinated in hospital, only those babies that fall into a high risk category will be offered vaccine after discharge. Neonatal BCG has been included in the data extraction template from local CHISs since April 2015, as part of the COVER (Cover of vaccination evaluated rapidly) programme. This provides an opportunity to estimate BCG vaccine at 12 months for LAs offering a universal neonatal programme.

This quarterly COVER report presents BCG coverage data for the second quarter of 2017-18 alongside data for the first quarter for comparison (table 5). Using the 2014-16 average annual TB rate per 100,100 population, there are currently six LAs in England with a high incidence of TB [4] and running a universal programme, five of which are in London, and the remaining one being Slough. Coverage estimates for children born between July and September 2016 in these LAs ranged from 25.3% to 45.5%, compared to 6.6% to 73.3% in the previous quarter [3].

COVER collections for BCG data have only been established since April 2015 and data are of variable quality. A shortage of BCG vaccine since May 2015 could have impacted on coverage for those evaluated in this quarter (born between July to September 2016). Estimates of low coverage may therefore in part be reflecting poor data quality but also vaccine supply issues, and should be interpreted with caution.

5. Relevant links for country-specific coverage data

Quarterly England data: https://www.gov.uk/government/collections/vaccine-uptake#cover-of-vaccination-evaluated-rapidly-programme

Annual England data: https://digital.nhs.uk/catalogue/PUB30085

Quarterly Northern Ireland: http://www.publichealthagency.org/directorate-publichealth/health-protection/vaccination-coverage

Scotland: http://www.isdscotland.org/Health-Topics/Child-Health/Immunisation/

Wales: http://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=54144/

COVER submission and publication dates:

https://www.gov.uk/government/publications/vaccine-coverage-statistics-publication-dates

Other relevant links

https://www.gov.uk/government/collections/immunisation.

6. References

- 1. Public Health England. The complete routine immunisation schedule. https://www.gov.uk/government/publications/the-complete-routine-immunisation-schedule
- 2. NHS England. Digital Child Health Transformation Programme. https://www.england.nhs.uk/digitaltechnology/child-health/
- 3. Public Health England (2017). Vaccination coverage statistics for children up to the age of five years in the United Kingdom, April to June 2017. 2017 HPR 11 (34). Available at https://www.gov.uk/government/statistics/cover-of-vaccination-evaluated-rapidly-cover-programme-2017-to-2018-guarterly-data
- Public Health England (2017). Tuberculosis in England 2017 report: presenting data to end of 2016. Available at https://www.gov.uk/government/publications/tuberculosis-in-englandannual-report

Appendix: Tables

Table 1a. Completed UK primary immunisations at 12 months by country and England local team : April to June 2017 (*January to March 2017*)

Table 1b. Completed UK primary immunisations at 12 months by NHS England Area Team: April to June 2017 (*January to March 2017*)

Table 2a. Completed UK primary immunisations at 24 months by country and NHS England local team: April to June 2017 (*January to March 2017*)

Table 2b. Completed primary immunisations at 24 months by NHS England Area Team: April to June 2017 (*January to March 2017*)

Table 3a. Completed UK primary immunisations and boosters at five years by country and NHS England local team: April to June 2017 (*January to March 2017*)

Table 3b. Completed primary immunisations and boosters at five years by NHS England Area Team : April to June 2017 (*January to March 2017*)

Table 4. Neonatal hepatitis B coverage at 12 and 24 months in England by NHS England Area Team : April to June 2017 (*January to March 2017*)

Table 5. BCG vaccine coverage at 12 months in England by NHS England Area Team : April to June 2017 (*January to March 2017*)

Table 1a. Completed UK primary immunisations at 12 months by country and English Local Teams: July to September 2017 (*April to June 2017*)

	Country	No. of LAs/HBs [†]	DTaP/IPV/Hib3%	PCV2%	Rota2%	MenB2%
	United Kingdom	177	93.6 (93.5)	94.0 (93.8)	90.5 (<i>90.8</i>)	93.2 (<i>92.8</i> ¹)
	Wales	7	95.9 (<i>96.0</i>)	95.8 (<i>96.0</i>)	93.4 (<i>94.0</i>)	95.6 (<i>95.5</i>)
	Northern Ireland	4	96.6 (96.7)	96.8 (<i>96.8</i>)	94.5 (94.8)	96.3 (<i>96.3</i>)
	Scotland	14	96.5 (96.6)	97.0 (<i>96.6</i>)	93.5 (<i>93.6</i>)	96.4 (96.1)
	England (Total)	152	93.2 (<i>93.0</i>)	93.5 (<i>93.3</i>)	89.9 (90.2)	92.7 (92.2 ¹)
LT code	NHS England Local Teams					
Q70	Wessex	7	94.1 (<i>95.6</i>)	94.1 (<i>95.5</i>)	88.4 (<i>95.3</i>)	93.7 (94.9)
Q71	London	33	89.0 (87.3)	89.6 (<i>87.9</i>)	86.9 (85.3)	88.0 (84.9)
Q72	North (Yorkshire & Humber)	15	94.4 (94.8)	94.7 (<i>95.0</i>)	91.9 (<i>93.0</i>)	94.4 (94.5)
Q73	North (Lancashire & Grt. Manchester)	13	94.0 (93.3)	93.7 (<i>93.7</i>)	85.5 (85.1)	91.6 (95.2)
Q74	North (Cumbria & North East)	13	95.2 (<i>96.4</i>)	95.3 (<i>96.6</i>)	93.4 (<i>94.4</i>)	95.1 (96.1)
Q75	North (Cheshire & Merseyside)	9	95.0 (<i>95.3</i>)	95.3 (<i>95.4</i>)	91.8 (92.3)	95.6 (95.8)
Q76	Midlands & East (North Midlands)	8	95.0 (95.1)	95.4 <i>(95.4</i>)	92.7 (93.1)	94.8 (94.8)
Q77	Midlands & East (West Midlands)	10	92.5 (93.7)	93.6 (<i>93.8</i>)	88.7 (90.2)	93.1 (92.7)
Q78	Midlands & East (Central Midlands)	10	94.5 (95.1)	95.0 (<i>95.4</i>)	92.1 (92.6)	94.4 (94.7)
Q79	Midlands & East (East)	7	94.7 (94.2)	95.0 (<i>94.5</i>)	92.2 (92.1)	94.4 (93.8)
Q80	South (South West)	9	94.9 (<i>94.5</i>)	94.9 (<i>94.8</i>)	90.6 (90.8)	94.6 (94.2)
Q81	South (South East)	6	91.4 (89.5)	91.6 (90.0)	88.7 (86.5)	91.1 (89.0)
Q82	South (South Central)	12	95.0 (<i>95.0</i>)	95.1 (<i>94.9</i>)	92.5 (92.7)	94.8 (94.3)

¹ This quarter all LAs provided MenB data, whereas in the April to June 2017 quarter Men B figure is based on coverage data from 143/152 LAs, see full tables

[†] Local Authorities /Health Boards.

Table 1b. Completed UK primary imms at 12 months by NHS England Area Teams: July to September 2017 (April to June 2017)

NHS England Loc Team code*	English Area Team (AT code)	No. of LAs [†]	DTaP/IPV/Hib3%	PCV2%	Rota2%	MenB2% ¹
Q70	Wessex (Q70)	7	94.1 (<i>95.6</i>)	94.1 (<i>95.5</i>)	88.4 (<i>95.3</i>)	93.7 (94.9)
Q71	London (Q71)	33	89.0 (87.3)	89.6 (87.9)	86.9 (85.3)	88.0 (<i>84.9</i>)
	North Yorkshire and Humber (Q50)	6	95.3 (<i>95.9</i>)	95.5 (<i>96.0</i>)	93.1 (93.9)	95.4 (<i>95.5</i>)
Q72	South Yorkshire and Bassetlaw (Q51)	4	94.1 (<i>94.1</i>)	94.5 (<i>94.5</i>)	92.9 (93.6)	94.0 (93.9)
	West Yorkshire (Q52)	5	94.0 (<i>94.5</i>)	94.3 (<i>94.7</i>)	90.5 (92.1)	94.0 (94.1)
772	Greater Manchester (Q46)	10	96.1 (<i>95.3</i>)	95.6 (<i>95.3</i>)	87.4 (87.1)	95.6 (<i>95.2</i>)
Q73	Lancashire (Q47)	3	89.5 (<i>89.0</i>)	89.7 (90.3)	81.6 (80.8)	83.1 (n/a)
774	Durham, Darlington and Tees (Q45)	6	96.0 (<i>96.4</i>)	96.3 (96.7)	93.5 (<i>94.4</i>)	95.8 (96.1)
Q74	Cumbria, Northumberland, Tyne and Wear (Q49)	7	94.6 (<i>96.4</i>)	94.7 (96.5)	93.4 (<i>94.4</i>)	94.7 (96.1)
775	Cheshire, Warrington and Wirral (Q44)	4	95.9 (96.2)	95.9 (<i>96.4</i>)	93.9 (93.9)	95.8 (<i>95.9</i>)
Q75	Merseyside (Q48)	5	94.2 (<i>94.4</i>)	94.7 (<i>94.4</i>)	89.9 (90.8)	95.5 (<i>95.7</i>)
776	Derbyshire and Nottinghamshire (Q55)	4	94.9 (95.1)	94.9 (95.1)	92.7 (93.1)	94.2 (94.2)
Q76	Shropshire and Staffordshire (Q60)	4	95.3 (<i>95.0</i>)	96.0 (95.9)	92.7 (93.1)	95.7 (<i>95.6</i>)
Q77	Arden, Herefordshire and Worcestershire (Q53)	4	94.0 (<i>97.4</i>)	95.7 (<i>96.0</i>)	90.6 (<i>93.5</i>)	95.7 (94.2)
ווצ	Birmingham and the Black Country (Q54)	6	91.9 (<i>92.0</i>)	92.5 (92.7)	87.8 (<i>88.6</i>)	91.8 (<i>91.9</i>)
Q78	Hertfordshire and the S Midlands (Q58)	6	94.1 (<i>95.0</i>)	94.8 (95.3)	92.1 (92.7)	94.2 (94.4)
סוג	Leicestershire and Lincolnshire (Q59)	4	95.0 (<i>95.4</i>)	95.5 (<i>95.6</i>)	92.1 (<i>92.5</i>)	94.9 (95.1)
Q79	East Anglia (Q56)	4	95.3 (<i>94.6</i>)	95.5 (<i>94.9</i>)	92.6 (92.1)	95.1 (<i>94.3)</i>
213	Essex (Q57)	3	94.1 (93.8)	94.2 (94.0)	91.6 (<i>92.0</i>)	93.6 (93.1)
200	Bristol, N Somerset, Somerset and S Gloucestershire (Q65)	4	95.7 (<i>94.5</i>)	95.7 (94.8)	92.3 (91.8)	95.5 (<i>94.3</i>)
Q80	Devon, Cornwall, Isles of Scilly (Q66)	5	94.0 (<i>94.4</i>)	94.0 (<i>94.8</i>)	88.8 (89.8)	93.6 (94.1)
204	Kent and Medway (Q67)	2	90.6 (85.6)	90.9 (86.5)	87.9 (<i>83.0</i>)	89.7 (85.0)
Q81	Surrey and Sussex (Q68)	4 ²	91.9 (<i>94.3</i>)	92.2 (94.4)	89.3 (90.9)	92.0 (93.9)
1 02	Bath, Gloucestershire, Swindon and Wiltshire (Q64)	4	94.9 (<i>95.3</i>)	95.4 (95.9)	92.5 (92.7)	94.9 (95.1)
Q82	Thames Valley (Q69)	8	95.0 (<i>94.7</i>)	94.9 (<i>94.3</i>)	92.5 (92.6)	94.7 (93.7)

^{*} See table 1a for key to local team organisational code tables; ²Surrey data missing for April to June 2017 quarter Men B figure is based on coverage data from 143/152 LAs, see full tables; ²Surrey data missing for April to June 2017 quarter

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Table 2a. Completed UK primary immunisations at 24 months by country and NHS England local team: July to September 2017 (April to June March 2017)

Country	No. of LAs/ HBs [†]	DTaP/IPV/Hib3%	PCV booster%	Hib/MenC booster%	MMR1%
United Kingdom	177	95.7 (95.6)	91.8 (<i>91.6</i>)	91.9 (<i>91.8</i>)	91.6 (91.6)
Wales	7	97.4 (97.3)	95.5 (95.3)	94.9 (94.6)	94.9 (94.8)
Northern Ireland	4	97.9 (<i>97.9</i>)	94.9 (95.1)	94.8 (95.0)	94.6 (94.8)
Scotland	14	97.6 (<i>97.7</i>)	94.8 (95.0)	95.0 (95.3)	94.5 (94.8)
England (Total)	152	95.3 (95.2)	91.3 (91.2)	91.4 (91.2)	91.1 (91.0)
NHS England local teams*					
Q70	7	96.0 (<i>96.3</i>)	92.2 (92.4)	92.5 (92.8)	92.7 (92.8)
Q71	33	91.4 (90.6)	83.6 (82.3)	84.3 (83.1)	83.5 (82.9)
Q72	15	96.6 (<i>96.7</i>)	94.2 (93.9)	93.8 (93.8)	93.6 (<i>93.5</i>)
Q73	13	96.2 (96.2)	92.2 (92.4)	92.4 (92.2)	92.1 (92 <i>.4</i>)
Q74	12	97.0 (97.2)	95.1 (<i>95.7</i>)	94.8 (95.3)	94.2 (95.1)
Q75	9	96.8 (<i>96.6</i>)	93.8 (93.2)	93.8 (93.9)	93.8 (93.3)
Q76	8	96.9 (96.9)	93.6 (93.3)	93.1 (93.0)	93.1 (<i>93.0</i>)
Q77	10	96.0 (<i>95.5</i>)	91.8 (<i>91.4</i>)	91.9 (<i>91.5</i>)	91.5 (91.5)
Q78	10	96.3 (96.2)	93.3 (93.1)	93.6 (93.4)	93.3 (93.0)
Q79	7	96.0 (<i>96.3</i>)	92.9 (93.7)	92.9 (93.6)	92.6 (93.2)
Q80	9	96.1 (<i>96.4</i>)	93.0 (92.7)	92.5 (92.8)	92.5 (92.6)
Q81	6	94.0 (94.3)	91.2 (91.3)	91.2 (91.2)	91.1 (91.2)
Q82	12	96.9 (<i>96.5</i>)	93.1 (93.1)	93.4 (<i>93.4</i>)	93.2 (93.3)

[†] Local Authorities/Health Boards

* See table 1a for key to local team organisational code

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Table 2b. Completed primary immunisations at 24 months by NHS England Area Teams: July to September 2017 (*April to June 2017*)

NHS England Local Team Code*	Area Team code*	No. of LAs [†]	DTaP/IPV/Hib3%	PCV booster%	Hib/MenC%	MMR1%
Q70	Q70	7	96.0 (96.3)	92.2 (92.4)	92.5 (92.8)	92.7 (92.8)
Q71	Q71	33	91.4 (90.6)	83.6 (82.3)	84.3 (83.1)	83.5 (82.9)
	Q50	6	96.9 (96.9)	94.9 (<i>94.3</i>)	93.8 (<i>94.3</i>)	93.7 (93.8)
Q72	Q51	4	96.8 (96.9)	94.0 (93.7)	93.7 (93.5)	93.6 (<i>93.3</i>)
	Q52	5	96.2 (96.5)	93.9 (93.9)	93.7 (93.7)	93.5 (<i>93.5</i>)
070	Q46	10	97.3 (96.6)	93.5 (<i>93.5</i>)	93.4 (93.3)	93.5 (93.8)
Q73	Q47	3	93.8 (95.2)	89.5 (90.1)	90.4 (89.9)	89.1 (<i>89.3</i>)
074	Q45	6	97.8 (97.8)	95.5 (<i>96.0</i>)	95.2 (<i>95.5</i>)	95.0 (<i>95.3</i>)
Q74	Q49	7	96.4 (96.8)	94.8 (<i>95.4</i>)	94.6 (95.2)	93.6 (<i>95.0</i>)
075	Q44	4	97.4 (<i>97.4</i>)	94.4 (<i>94.0</i>)	94.6 (<i>95.5</i>)	94.7 (<i>94.7</i>)
Q75	Q48	5	96.3 (95.9)	93.1 (<i>92.5</i>)	93.1 (92.3)	92.8 (91.9)
070	Q55	4	96.5 (96.4)	92.7 (92.5)	92.2 (92.3)	92.2 (92.3)
Q76	Q60	4	97.5 (<i>97.5</i>)	94.8 (94.2)	94.5 (93.9)	94.4 (93.9)
077	Q53	4	97.5 (97.3)	96.6 (95.1)	96.6 (95.2)	96.9 (<i>95.8</i>)
Q77	Q54	6	95.3 (<i>94.5</i>)	89.5 (89.5)	89.6 (89.6)	88.9 (89.3)
070	Q58	6	95.9 (<i>95.7</i>)	93.0 (93.1)	93.4 (93.3)	93.1 (92.9)
Q78	Q59	4	96.9 (<i>97.0</i>)	93.7 (93.1)	93.8 (<i>93.5</i>)	93.7 (93.2)
070	Q56	4	96.3 (96.3)	94.0 (<i>94.0</i>)	93.9 (<i>94.0</i>)	93.7 (<i>93.7</i>)
Q79	Q57	3	95.6 (96.3)	91.6 (93.2)	91.7 (<i>93.0</i>)	91.2 (92.7)
000	Q65	4	96.7 (96.7)	92.6 (92.6)	92.9 (93.0)	92.4 (92.5)
Q80	Q66	5	95.5 (96.0)	93.4 (92.8)	92.1 (92.7)	92.6 (92.8)
004	Q67	2	93.4 (94.3)	91.0 (90.0)	90.7 (89.6)	90.5 (89.9)
Q81	Q68	4	94.5 (94.2)	91.4 (92.8)	91.5 (93.3)	91.5 (92.9)
000	Q64	4	97.0 (96.3)	94.4 (93.9)	94.2 (93.9)	94.2 (93.7)
Q82	Q69	8	96.9 (96.7)	92.2 (92.6)	92.8 (93.1)	92.6 (93.1)

 $^{^{\}star}$ See table 1a and 1b for keys to NHS England local team/Area Team organisational code.

[†]Local Authorities

Quarterly vaccination coverage statistics for children aged up to five years in the UK (COVER programme): July to September 2017

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Table 3a. Completed UK primary immunisations and boosters at five years by country and NHS England local team: July to September 2017 (*April to June 2017*)

	Number of	Prima	ary	Booster		
Country	LAs/HBs [†]	DTaP/IPV/ Hib3%	MMR1%	MMR2%	DTaP/IPV%	Hib/MenC%
United Kingdom	177	96.1 (<i>96.2</i>)	95.6 (<i>95.8</i>)	88.1 (<i>88.2</i>)	87.6 (<i>87.2</i>)	93.4 (<i>93.4</i>)
Wales	7	94.0 (<i>94.4</i>)	97.1 (<i>97.0</i>)	90.5 (89.7)	93.0 (92.7)	92.9 (92.7)
N. Ireland	4	97.6 (98.2)	97.1 (<i>97.6</i>)	92.6 (93 <i>.0</i>)	92.9 (93.5)	96.6 (<i>96.8</i>)
Scotland	14	98.3 (98.2)	97.2 (97.1)	92.5 (92 <i>.5</i>)	93.1 (93.2)	96.6 (<i>96.5</i>)
England (Total)	152	96.0 (<i>96.0</i>)	95.3 (<i>95.6</i>)	87.5 (87.6)	86.6 (86.2)	93.1 (93.0)
English Local Teams						
Q70	7	96.2 (96.2)	94.7 (94.4)	90.3 (89.5)	87.9 (<i>85.0</i>)	92.9 (92.3)
Q71	33	93.4 (92.4)	91.8 (91.8)	76.9 (76.2)	77.0 (<i>74.7</i>)	89.1 (<i>88.0</i>)
Q72	15	97.2 (97.4)	96.8 (97.0)	90.8 (90.3)	90.1 (<i>90.0</i>)	94.5 (<i>94.7</i>)
Q73	13	95.5 (96.3)	95.8 (<i>96.4</i>)	89.2 (89.4)	88.5 (88.1)	93.1 (92.9)
Q74	13	97.6 (97.8)	97.4 (<i>97.4</i>)	91.9 (92.8)	91.5 (<i>91.0</i>)	95.8 (<i>95.6</i>)
Q75	9	96.5 (97.3)	96.2 (96.8)	90.4 (90.6)	91.4 (<i>91.5</i>)	94.6 (<i>94.9</i>)
Q76	8	97.3 (97.3)	97.0 (96.9)	88.7 (89.4)	88.1 (<i>88.0</i>)	94.8 (<i>94.8</i>)
Q77	10	97.4 (97.2)	97.1 (96.9)	90.0 (89.2)	88.3 (87.8)	95.6 (<i>95.3</i>)
Q78	10	96.9 (96.8)	96.2 (96.5)	90.2 (90.5)	89.2 (89.0)	93.3 (93.8)
Q79	7	96.6 (96.7)	96.0 (96.2)	90.0 (90.0)	89.2 (<i>89.0</i>)	93.7 (<i>93.7</i>)
Q80	9	97.3 (<i>97.5</i>)	96.4 (96.6)	90.7 (91.6)	89.5 (90.0)	95.5 (<i>95.6</i>)
Q81	6	92.9 (<i>95.0</i>)	93.0 (95.5)	86.2 (87.8)	84.3 (85.6)	89.5 (91.5)
Q82	12	97.1 (96.6)	95.7 (<i>95.6</i>)	89.3 (8 <i>9.7</i>)	87.2 (89.1)	94.6 (<i>94.3</i>)

 $^{^{\}star}$ See table 1a for key to NHS England local team organisational code.

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3b. Completed primary immunisations and boosters at five years by NHS England Area Team: July to September 2017 (April to June 2017)

NHS England			Prim	nary	Booster		
local team Code*	Area Team (AT) code*	No. of LAs [†] in AT	DTaP/IPV Hib3 %	MMR1 %	MMR2 %	DTaP/ IPV %	Hib/ MenC
Q70	Q70	7	96.2 (96.2)	94.7 (94.4)	90.3 (89.5)	87.9 (<i>85.0</i>)	92.9 (92.3)
Q71	Q71	33	93.4 (<i>92.4</i>)	91.8 (91.8)	76.9 (76.2)	77.0 (74.7)	89.1 (88.0)
	Q50	6	97.1 (<i>97.9</i>)	96.5 (<i>97.4</i>)	90.7 (91.0)	89.8 (90.2)	94.5 (<i>95.4</i>)
Q72	Q51	4	97.1 (<i>97.0</i>)	96.9 (97.0)	90.1 (89.3)	89.8 (89.6)	93.8 (93.5)
	Q52	5	97.4 (97.2)	96.9 (96.7)	91.2 (90.4)	90.4 (90.1)	94.9 (<i>94.9</i>)
070	Q46	10	97.4 (96.9)	96.9 (96.7)	91.3 (91.1)	89.9 (89.6)	95.0 (<i>94.4</i>)
Q73	Q47	3	91.6 (<i>95.0</i>)	93.6 (96.0)	84.8 (85.9)	85.8 (85.0)	89.0 (8 <i>9.7</i>)
074	Q45	6	97.4 (98.0)	97.3 (97.3)	92.2 (92.3)	90.8 (<i>90.4</i>)	95.6 (<i>95.6</i>)
Q74	Q49	7	97.8 (<i>97.7</i>)	97.6 (97.4)	91.7 (93.2)	92.1 (91.4)	95.9 (<i>95.7</i>)
075	Q44	4	96.6 (97.8)	96.3 (96.9)	91.6 (92.6)	92.6 (93.7)	94.4 (<i>95.0</i>)
Q75	Q48	5	96.4 (96.8)	96.2 (96.7)	89.2 (88.5)	90.1 (89.2)	94.9 (94.8)
070	Q55	4	96.9 (97.1)	96.8 (97.3)	87.2 (88.6)	87.0 (87.8)	93.6 (94.3)
Q76	Q60	4	97.9 (97.6)	97.3 (97.1)	90.9 (91.0)	89.5 (88.8)	96.4 (96.5)
077	Q53	4	98.5 (98.4)	98.7 (98.0)	95.1 (94.1)	93.7 (93.3)	97.2 (96.5)
Q77	Q54	6	96.9 (96.6)	96.3 (96.3)	87.4 (86.6)	85.5 (<i>85.0</i>)	94.8 (<i>94.6</i>)
070	Q58	6	96.9 (<i>96.5</i>)	96.5 (96.3)	90.6 (<i>90.5</i>)	89.2 (<i>88.6</i>)	94.0 (93.8)
Q78	Q59	4	96.9 (97.3)	95.7 (96.9)	89.5 (90.5)	89.3 (89.8)	92.0 (93.7)
070	Q56	4	96.1 (<i>96.1</i>)	95.6 (<i>95.6</i>)	90.0 (89.3)	88.7 (88.3)	92.8 (92.5)
Q79	Q57	3	97.2 (<i>97.4</i>)	96.6 (96.8)	90.0 (90.8)	89.8 (90.0)	94.8 (95.3)
000	Q65	4	97.6 (98.2)	96.5 (97.1)	89.5 (91.7)	90.2 (92.2)	96.0 (<i>96.5</i>)
Q80	Q66	5	97.1 (96.9)	96.3 (96.2)	91.9 (91.6)	88.8 (<i>88.0</i>)	95.1 (<i>94.9</i>)
004	Q67	2	93.5 (<i>94.7</i>)	95.2 (95.5)	86.4 (86.6)	81.7 (83.0)	90.4 (91.3)
Q81	Q68	4 ¹	92.6 (95.2)	91.5 (<i>95.5</i>)	86.1 (<i>89.1</i>)	86.0 (88.7)	89.0 (91.7)
000	Q64	4	97.0 (<i>96.5</i>)	96.4 (95.8)	90.1 (8 <i>9.4</i>)	90.5 (89.2)	94.9 (93.9)
Q82	Q69	8	97.2 (<i>96.7</i>)	95.3 (<i>95.4</i>)	88.8 (89.9)	85.1 (89.1)	94.5 (<i>94.5</i>)

¹ Surrey data missing for Quarter 1 * See table 1a and 1b for keys to NHS England local team/Area Team organisational code.

[†]Local Authorities.

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Table 4. Neonatal hepatitis B coverage at 12 and 24 months in England by NHS England Local Team: July to September 2017 (*April to June 2017*)

NHS England Local Team Code*	LA returns with 12 month data	12 month deno- minator	% Coverage at 12 months	LA returns with 24 month data	24 month deno- minator	% Coverage at 24 months
Q70	7 of 7	31	100 (<i>100</i>)	7 of 7	27	96 (100)
Q71 ¹	33 of 33	n/a	n/a (<i>n/a</i>)	33 of 33	n/a	n/a (<i>n/a</i>)
Q72	15 of 15	47	96 (98)	15 of 15	47	85 (83)
Q73	10 of 13	72	69 (61)	10 of 13	99	25 (19)
Q74	13 of 13	11	91 (92)	13 of 13	12	50 (<i>79</i>)
Q75	7 of 9	9	67 (89)	7 of 9	5	20 (67)
Q76	8 of 8	29	97 (<i>95</i>)	8 of 8	15	87 (95)
Q77	10 of 10	51	100 (<i>100</i>)	10 of 10	37	97 (100)
Q78	10 of 10	44	95 (98)	10 of 10	39	97 (93)
Q79	7 of 7	25	96 (<i>96</i>)	7 of 7	30	87 <i>(79</i>)
Q80	9 of 9	17	100 (<i>100</i>)	9 of 9	8	88 (1 <i>00)</i>
Q81	6 of 6	30	90 (100)	6 of 6	23	100 (100)
Q82	12 of 12	23	96 (98)	12 of 12	21	95 (<i>95)</i>
England ¹	146 of 152	n/a	n/a (<i>n/a</i>)	146 of 152	n/a	n/a (<i>n/a</i>)

^{*} See table 1a for key to NHS England Local Team organisational code

Table 5. BCG vaccine coverage at 12 months in English local authorities with TB incidence ≥40 per 100,000 and offering a universal programme: July to September 2017 (*April to June 2017*)

Upper tier Local Authority	Three-year average (2014-16) annualTB rate per 100,000	Number of eligible children (1st birthday in July to Sept 2016)	Universal BCG coverage% (previous quarterly estimate)
Newham	69.0	1254	45.5 (73.3)
Brent	57.8	1155	25.9 (22.2)
Hounslow	47.5	1098	34.7 (55.0)
Ealing	47.3	1308	31.9 (33.1)
Slough	41.8	649	28.4 (6.6)
Redbridge	41.5	1152	25.3 <i>(16.5)</i>

¹Last quarter the newly established CHIS Hubs in London only provided data for all babies vaccinated with HepB vaccine and not just those born to HepB positive mothers and therefore these data were excluded from the analysis. For the current quarter London coverage data has been excluded as data migrated from legacy systems has only provided partial data for those born to HepB positive mothers, resulting in a significant reduction in both the 12 month and 24 month birth cohort denominators. As almost half of all babies born to HepB positive mothers in the national denominator are in London national coverage estimates at 12 and 24 months were not calculated

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Public Health England, Wellington House, 133-155 Waterloo Road, London SE1 8UG Tel: 020 7654 8000 www.gov.uk/phe

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Queries relating to this document should be directed to:

Immunisation, Hepatitis and Blood Safety Department,

National Infection Service, PHE Colindale,

61 Colindale Avenue, London NW9 5EQ.

COVER@phe.gov.uk

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