



Infection report

Volume 10 Number 8 Published on: 26 February 2016

Vaccine-preventable infections

National rotavirus immunisation programme update: preliminary vaccine coverage for England, August 2015 to January 2016

Provisional estimates show average rotavirus vaccine coverage in England at six months of age is 93.8% for one dose and 88.9% for two doses, for the period August 2015 to January 2016. These figures show a continuation of the high coverage trends observed since February 2014.

Introduction

This report describes rotavirus vaccine coverage data for the period August 2015 to January 2016, updating previous data reported for the period February 2014 to July 2015 [1].

The rotavirus immunisation programme aims to provide protection against rotavirus infection by providing two doses of Rotarix® vaccine to infants between the ages of six and 24 weeks of age. The first dose of Rotarix® vaccine is offered at two months (approximately eight weeks) of age and the second dose at least four weeks after the first dose.

Further information on the history and epidemiology of the disease, recommendations on supply, storage and use of the vaccine, as well as guidance on contraindications, precautions and adverse reactions can be found in the “Immunisation against infectious disease” book (the [Green Book](#)), chapter 27b [2]. Additional background information for the programme can be found on the [PHE website](#) and on the vaccine coverage collection in this report: [Rotavirus vaccine uptake report for England: February 2014 to March 2015](#).

Methods

General practice (GP) level rotavirus vaccine coverage data are automatically uploaded via participating GP IT suppliers (covering 95% of GP practices in England) to the ImmForm* website on a monthly basis.

ImmForm data are validated and analysed by PHE to check data completeness, identify and query any anomalous results and describe epidemiological trends.

Monthly data are collected on the following:

- *Denominator:* the number of infants in a GP practice who, in the survey month, reach 25 weeks of age;
- *Numerators:* number of infants in the denominator who received a) a first dose and b) a second dose of Rotarix® from six weeks of age up to 24 weeks of age, including vaccinations given by other healthcare providers.

This rotavirus ImmForm collection is a temporary sentinel surveillance programme set up to provide assurance that the vaccine has been well accepted. The routine quarterly COVER (Cover of vaccination evaluated rapidly) reporting scheme assesses vaccine coverage for all children in England aged 12 months using data extracted from Child Health Information Systems (CHIS) and rotavirus coverage has

* ImmForm is the system used by Public Health England to record vaccine coverage data for some immunisation programmes and to provide vaccine ordering facilities for the NHS

now started to be reported through this scheme [3]. It is expected that quarterly and annual COVER reporting will replace the sentinel monthly GP reporting within a year.

GP data are aggregated by NHS England organisations (Clinical Commissioning Groups (CCGs), Area Teams (ATs) and NHS England Local Teams (LTs)), and by Local Authorities (LAs).

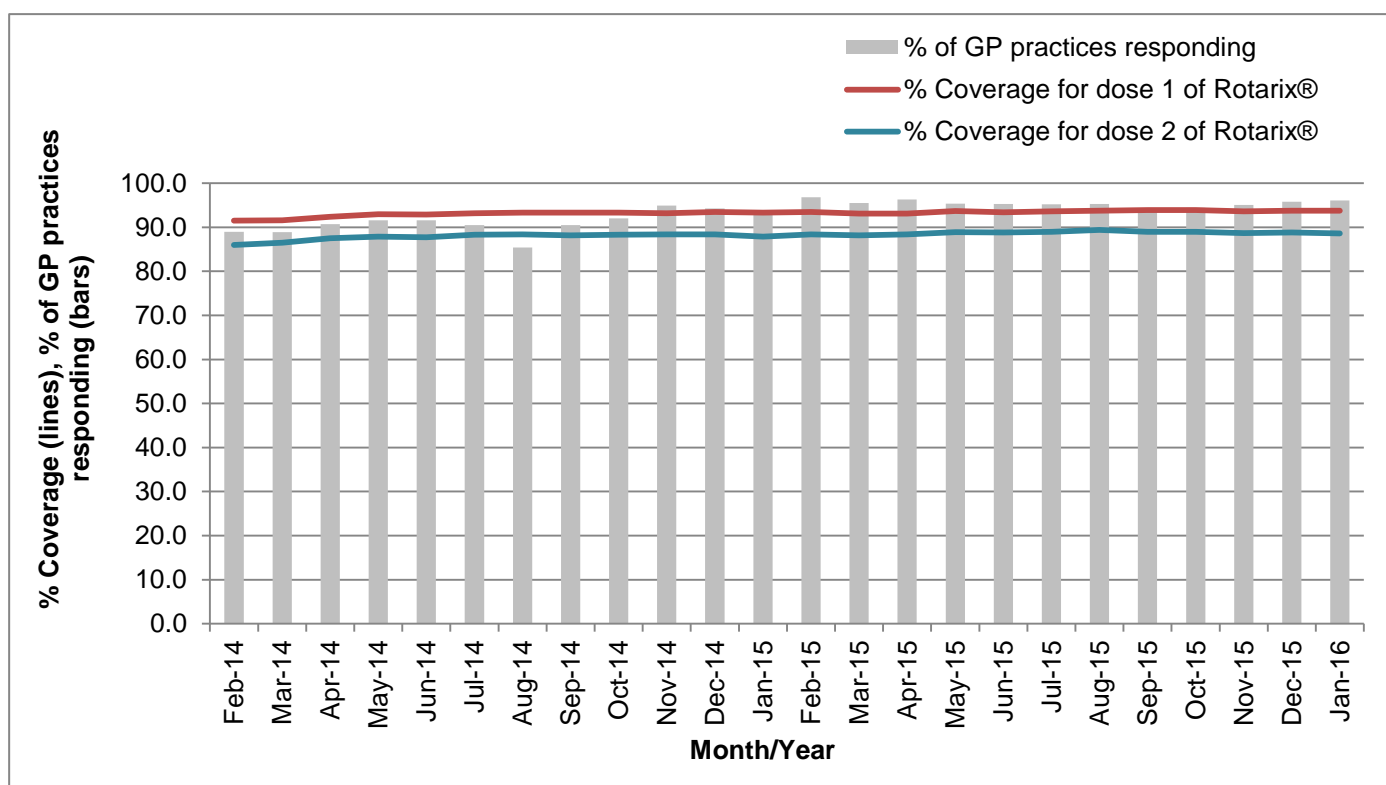
Results

Between August 2015 and January 2016, 95.1%, GP practices responded on average, ranging from 94.1% (September 2015) to 96.1% (January 2016) (figure 1).

Between August 2015 and January 2016, average vaccine coverage was 93.8% for one dose, ranging from 90.7% (London) to 96.4% (Durham, Darlington and Tees) (see table 1 for monthly figures by NHS England AT). Average vaccine coverage was 88.9%, for completed courses, ranging from 83.6% (London) to 92.9% (Durham, Darlington and Tees) (see table 2 for monthly figures by AT). Based on the latest coverage data (January 2016), 50.4% of GPs achieved at least 95% coverage for completed courses of rotavirus vaccine. These figures show a continuation of the high coverage trends observed since February 2014 (figure 1).

Vaccine coverage data by AT and Clinical Commissioning Group (CCG) for the period February 2014 to January 2016 are presented in an [Appendix](#) associated with this report.

Figure 1. Monthly rotavirus coverage at 25 weeks of age for one dose and two doses, and the percentage of GP practices reporting: England, February 2014* to January 2016



*Although the vaccine programme was introduced in July 2013 the first cohort of children aged 25 weeks to be routinely scheduled rotavirus vaccine alongside other primary vaccines at two and three months of age were evaluated from January 2014. However, data are presented from the February evaluation due to data quality issues prior to this.

Table 1. Monthly rotavirus vaccine coverage for one dose (%) at 25 weeks of age by Area Team: England, August 2015 to January 2016

Area Team	Aug 2015	Sep 2015	Oct 2015	Nov 2015	Dec 2015	Jan 2016
Cheshire, Warrington and Wirral (Q44)	92.8	94.2	95.3	94.3	95.5	95.9
Durham, Darlington and Tees (Q45)	96.5	96.5	96.9	96.7	95.5	96.2
Greater Manchester (Q46)	92.4	91.2	93.0	91.8	93.2	93.8
Lancashire (Q47)	94.2	96.1	95.5	94.9	95.0	94.6
Merseyside (Q48)	93.2	92.8	91.3	92.2	91.5	92.1
Cumbria, Northumberland, Tyne and Wear (Q49)	96.1	96.2	95.6	95.3	95.9	96.1
N Yorkshire and Humber (Q50)	96.3	95.5	96.2	95.9	95.7	96.5
S Yorkshire and Bassetlaw (Q51)	94.9	96.5	96.1	96.6	95.4	95.2
W Yorkshire (Q52)	95.3	94.6	94.7	95.1	94.7	93.8
Arden, Herefordshire and Worcestershire (Q53)	95.4	94.1	95.4	95.1	94.0	96.1
Birmingham and Black Country (Q54)	93.5	93.4	92.4	92.6	93.7	93.1
Derbyshire and Notts. (Q55)	95.7	95.8	96.4	95.1	95.2	95.4
East Anglia (Q56)	94.9	94.9	95.4	94.6	94.7	95.3
Essex (Q57)	95.1	94.4	96.4	95.7	95.6	94.9
Hertfordshire and the S Midlands (Q58)	95.0	95.2	95.1	94.5	94.9	95.4
Leicestershire and Lincolnshire (Q59)	94.1	95.5	94.6	94.4	94.7	95.7
Shropshire and Staffordshire (Q60)	95.4	94.9	94.4	94.0	94.5	95.8
Bath, Gloucestershire, Swindon and Wiltshire (Q64)	95.2	94.9	95.3	95.2	95.6	95.1
Bristol, N Somerset, Somerset and S Gloucestershire (Q65)	94.6	93.2	93.3	92.0	93.4	92.6
Devon, Cornwall and Scilly Isles (Q66)	92.2	92.2	92.0	93.1	93.6	92.5
Kent and Medway (Q67)	95.5	94.4	95.6	93.4	94.3	95.4
Surrey and Sussex (Q68)	94.2	94.6	92.6	94.2	94.3	93.1
Thames Valley (Q69)	94.5	94.1	94.3	95.0	95.0	93.8
Wessex (Q70)	95.7	95.9	95.4	94.2	94.5	95.5
London (Q71)	90.5	91.1	90.7	90.8	90.8	90.4
ENGLAND	93.8	93.9	93.9	93.6	93.8	93.8
Monthly reported denominator	50778	48444	50898	51783	53640	53343

Table 2. Monthly rotavirus vaccine coverage for two doses (%) at 25 weeks of age by Area Team: England, August 2015 to January 2016

Area Team	Aug 2015	Sep 2015	Oct 2015	Nov 2015	Dec 2015	Jan 2016
Cheshire, Warrington and Wirral (Q44)	88.7	90.0	90.1	90.4	90.7	90.7
Durham, Darlington and Tees (Q45)	92.8	93.3	93.6	93.6	91.3	92.9
Greater Manchester (Q46)	87.7	85.0	86.7	85.6	86.9	86.6
Lancashire (Q47)	89.7	92.1	91.9	91.0	90.3	90.3
Merseyside (Q48)	85.5	85.2	84.1	85.4	84.8	84.3
Cumbria, Northumberland, Tyne and Wear (Q49)	92.9	92.4	92.3	92.6	92.1	91.9
N Yorkshire and Humber (Q50)	93.1	91.3	93.0	92.9	91.7	92.1
S Yorkshire and Bassetlaw (Q51)	91.1	92.7	91.9	93.7	90.7	90.5
W Yorkshire (Q52)	90.9	91.7	90.3	91.3	90.7	89.3
Arden, Herefordshire and Worcestershire (Q53)	91.6	87.9	90.5	89.3	89.4	90.9
Birmingham and Black Country (Q54)	88.5	87.9	86.7	86.6	88.2	86.5
Derbyshire and Notts. (Q55)	92.2	91.7	92.5	89.7	90.7	91.6
East Anglia (Q56)	92.8	91.8	92.2	90.7	91.1	91.6
Essex (Q57)	91.5	90.7	93.1	92.3	91.9	91.2
Hertfordshire and the S Midlands (Q58)	92.4	92.1	92.8	91.2	91.3	91.7
Leicestershire and Lincolnshire (Q59)	91.2	93.6	91.6	91.8	91.3	92.5
Shropshire and Staffordshire (Q60)	91.8	91.5	90.9	90.5	90.2	91.3
Bath, Gloucestershire, Swindon and Wiltshire (Q64)	92.2	91.6	92.2	92.2	92.4	92.1
Bristol, N Somerset, Somerset and S Gloucestershire (Q65)	90.6	88.5	88.6	87.5	89.4	87.8
Devon, Cornwall and Scilly Isles (Q66)	88.8	86.8	88.0	87.3	88.1	87.4
Kent and Medway (Q67)	90.6	89.1	90.4	88.5	88.7	90.4
Surrey and Sussex (Q68)	89.7	89.5	88.3	89.1	89.9	88.7
Thames Valley (Q69)	89.5	89.6	90.0	89.4	89.9	87.8
Wessex (Q70)	92.6	91.9	91.5	90.7	90.9	92.5
London (Q71)	84.0	83.8	83.1	83.6	83.9	83.2
ENGLAND	89.4	89.0	89.0	88.7	88.8	88.6
Monthly reported denominator	50778	48444	50898	51783	53640	53343

References

1. Public Health England, *National rotavirus immunisation programme: preliminary data for England, February 2014 to July 2015*. HPR, 2015. **9**(30). Available from: <https://www.gov.uk/government/publications/rotavirus-immunisation-programme-vaccine-coverage-estimates>
2. Public Health England. *Rotavirus: the green book, chapter 27b*. 2015; Available from: <https://www.gov.uk/government/publications/rotavirus-the-green-book-chapter-27b>.
3. Public Health England, *Vaccination coverage report, UK (COVER programme): July to September 2015*. 2015. **9**(45). Available from: <https://www.gov.uk/government/statistics/cover-of-vaccination-evaluated-rapidly-cover-programme-2015-to-2016-quarterly-data>