

## Summary

### Children 12 months of age in Quarter 2-2013

- National immunisation uptake rates were 91% for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, HepB<sub>3</sub>, MenC<sub>2</sub> and PCV<sub>2</sub>. Compared to Q1-2013, national uptake rates in Q2-2013 for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> were unchanged while HepB<sub>3</sub>, MenC<sub>2</sub> and PCV<sub>2</sub> increased by 1%.
- The HSE Midland Area reached the target of ≥95% for all vaccines while the HSE North Western Area reached the target for all vaccines except MenC<sub>2</sub>.
- Among the Local Health Offices, the target uptake rate of ≥95% was reached in Longford/Westmeath, Donegal and Roscommon for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, HepB<sub>3</sub>, MenC<sub>2</sub> and PCV<sub>2</sub> and in Sligo/Leitrim for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, HepB<sub>3</sub> and PCV<sub>2</sub>.
- BCG uptake data were available for seven of the eight HSE Areas in Q2-2013; these areas cover approximately 90% of the national birth cohort. Where data were available, national uptake was 86% for the BCG vaccination. This is a decline of 1% compared to Q1 2013. The target uptake of ≥95% was reached in the HSE Midland, Mid Western, North Western and South Eastern Areas i.e. in 11 LHOs. An additional three LHOs (in the HSE Eastern Area) also reached the target uptake rate.

### Children 24 months of age in Quarter 2-2013

- National uptake rates were 96% for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub>, 95% for HepB<sub>3</sub>, 92% for MMR<sub>1</sub>, 91% for PCV<sub>3</sub>, 89% for Hib<sub>b</sub> and 86% for MenC<sub>3</sub>. Compared to the previous quarter, national uptake rates in Q2 2013 increased by 1% for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> and were unchanged for the remainder.
- The target uptake of ≥95% was reached for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> in seven of the eight HSE Areas, for HepB<sub>3</sub> in six of the HSE Areas, for MMR<sub>1</sub> in three HSE Areas and for Hib<sub>b</sub> in two HSE Areas. The target uptake of ≥95% was not reached in any HSE Area for MenC<sub>3</sub> or PCV<sub>3</sub>.
- Six of the eight HSE Areas were able to provide uptake data on MenC<sub>b</sub> (one dose of MenC at ≥12 months of age) and PCV<sub>b</sub> (one dose of PCV at ≥12 months of age) in Quarter 2 2013. These Areas cover approximately 80% of the national birth cohort. Where data were available, national uptake was 90% for MenC<sub>b</sub> and 93% for PCV<sub>b</sub>. The target uptake of ≥95% was reached for PCV<sub>b</sub> in three HSE Areas and in one for MenC<sub>b</sub>.
- The target uptake of ≥95% was reached in 26 LHOs for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub>, 24 LHOs for HepB<sub>3</sub>, 9 for Hib<sub>b</sub>, PCV<sub>b</sub> and MMR<sub>1</sub>, 4 for MenC<sub>b</sub>, 2 for PCV<sub>3</sub>, and in one for MenC<sub>3</sub>.

## Introduction

Since September 1st 2008, the childhood immunisation schedule outlined in table 1 has been implemented for children born on or after 1<sup>st</sup> July 2008.

Compared to the previous schedule (table 1), the changes to the primary schedule for children born on or after 1<sup>st</sup> July 2008 include;  
 Introduction of a hepatitis B vaccine (as part of a 6 in 1 vaccine) given at 2, 4 and 6 months of age  
 Introduction of pneumococcal conjugate vaccine given at 2, 6 and 12 months of age  
 Change in timing of meningococcal serogroup C conjugate vaccination, now given at 4, 6 and 13 months of age  
 Change in timing of the *Haemophilus influenzae* type b booster vaccination, now given at 13 months of age.

Please see [www.immunisation.ie](http://www.immunisation.ie) for complete information on the Irish childhood immunisation schedule.

The immunisation uptake statistics presented in this report relate to children 12 and 24 months of age in Quarter 2-2013.

The immunisation uptake rates presented in this report for children at 12 months of age in Quarter 2-2013 are children born between 01/04/2012 and 30/06/2012 and who have received three doses of vaccines against diphtheria (D<sub>3</sub>), pertussis (P<sub>3</sub>), tetanus (T<sub>3</sub>), *Haemophilus influenzae* type b (Hib<sub>3</sub>), polio (Polio<sub>3</sub>), hepatitis B (HepB<sub>3</sub>), two doses of meningococcal serogroup C conjugate vaccine (MenC<sub>2</sub>), two doses of pneumococcal conjugate vaccine (PCV<sub>2</sub>) and one dose of BCG vaccine.

The immunisation uptake rates presented in this report for children at 24 months of age in Quarter 2-2013 are children born between 01/04/2011 and 30/06/2011 and who have received three doses of vaccines against diphtheria (D<sub>3</sub>), pertussis (P<sub>3</sub>), tetanus (T<sub>3</sub>), *Haemophilus influenzae* type b (Hib<sub>3</sub>), polio (Polio<sub>3</sub>), hepatitis B (HepB<sub>3</sub>), meningococcal group C (MenC<sub>3</sub>) and pneumococcal conjugate vaccine (PCV<sub>3</sub>), one booster dose of vaccine against *Haemophilus influenzae* type b on or after 12 months of age (Hib<sub>b</sub>), one dose of vaccine against meningococcal group C (MenC<sub>b</sub>) on or after twelve months of age, one dose of vaccine against pneumococcal conjugate vaccine (PCV<sub>b</sub>) on or after twelve months of age and one dose of vaccine against measles, mumps and rubella (MMR<sub>1</sub>). The Quarter 2-2013 cohort of children at 24 months was therefore the twelfth cohort recommended the new immunisation schedule. (Children that were 24 months of age in Quarter 3-2010 were children born between July 1st and September 30th 2008 and were therefore the first cohort recommended the new immunisation schedule.)

The national immunisation uptake statistics, based on available data, for Quarter 2-2013 are presented in this document, the uptake statistics are also presented by HSE Area and Local Health Office (LHO).

The uptake rates presented here were rounded to zero decimal place.

While there are 32 LHOs the immunisation uptake data for North Lee and South Lee are combined in this report.

**Table 1.** Change in Primary Childhood Immunisation Schedule (introduced on September 1<sup>st</sup> 2008)

Age	Children born before 01/07/2008	Children born on or after 01/07/2008
Birth	BCG	BCG
2 months	DTaP/Hib/IPV + MenC	DTaP/Hib/IPV/HepB + PCV
4 months	DTaP/Hib/IPV + MenC	DTaP/Hib/IPV/HepB + MenC
6 months	DTaP/Hib/IPV + MenC	DTaP/Hib/IPV/HepB + PCV + MenC
12 months	MMR + Hib	MMR + PCV
13 months	-	MenC + Hib

Please see [www.immunisation.ie](http://www.immunisation.ie) for complete information on the Irish childhood immunisation schedule and the immunisation guidelines for Ireland.

BCG	Bacille Calmette Guerin vaccine
DTaP	Diphtheria, Tetanus and acellular Pertussis vaccine
Hib	<i>Haemophilus influenzae</i> type b vaccine
HepB	Hepatitis B vaccine
IPV	Inactivate Polio Virus vaccine
MMR	Measles, Mumps and Rubella vaccine
MenC	Meningococcal group C vaccine
PCV	Pneumococcal Conjugate Vaccine

## Immunisation uptake at 12 months

### National and HSE Area uptake

Immunisation uptake rates in children 12 months of age in Q2-2013 are presented by HSE Area in table 2. National uptake rates were 91% for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, HepB<sub>3</sub>, PCV<sub>2</sub> and MenC<sub>2</sub>. Among the HSE Areas, the uptake rates for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and HepB<sub>3</sub> ranged from 89% to 95%, MenC<sub>2</sub> range from 87% to 95% and PCV<sub>2</sub> ranged from 86% to 95%. The HSE Midland Area reached the target of  $\geq 95\%$  for all vaccines while the HSE North Western Area reached the target for all vaccines except MenC<sub>2</sub>.

BCG uptake data were available for seven of the eight HSE Areas in Q2-2013; these areas cover approximately 90% of the national birth cohort. Where data were available, national uptake was 86% for the BCG vaccination. The target uptake of  $\geq 95\%$  was reached in the HSE Midland, Mid Western, North Western and South Eastern Areas i.e. in 11 LHOs. An additional three LHOs (in the HSE Eastern Area) also reached the target uptake rate.

### National & HSE Area trends

Figure 1 presents the national uptake rates at 12 months for each vaccine from Q3-2000 to Q2-2013. Compared to Q1-2013, national uptake rates in Q2-2013 for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> were unchanged while HepB<sub>3</sub>, MenC<sub>2</sub> and PCV<sub>2</sub> increased by 1%.

In Q2-2013, compared to the previous quarter, uptake rates in the: HSE-Eastern Area increased by 1% for MenC<sub>2</sub> and 2% for PCV<sub>2</sub> and were unchanged for the remainder; HSE-Midland Area were unchanged for all vaccines except BCG which increased by 1%; HSE-Mid Western Area increased by 1% for all vaccines except BCG which was unchanged; HSE-North-Eastern Area decreased by 1% for all vaccines except MenC<sub>2</sub> which increased by 2% and PCV<sub>2</sub> which increased by 3%; HSE-North-Western Area increased by 1-2% for all vaccines; HSE-South Eastern Area decreased by 1% for all vaccines except BCG which was unchanged; HSE-Southern Area increased by 1-2% for all vaccines except BCG which decreased by 1% and PCV<sub>2</sub> which was unchanged; HSE-Western were unchanged except BCG which increased by 1% and PCV<sub>2</sub> which increased by 2%.

### LHO uptake

The immunisation uptake rates by LHO are shown in appendix 1. D<sub>3</sub>, MenC<sub>2</sub> and PCV<sub>2</sub> immunisation uptake rates are mapped by LHO in figures 2-4.

Among the 25 LHOs reporting BCG data, BCG uptake ranged from 91% to 99% with 14 reporting uptake of  $\geq 95\%$ .

D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and HepB<sub>3</sub>, uptake rates ranged from 79% (Dublin North West) to 96% (Longford/Westmeath and Roscommon). MenC<sub>2</sub> and PCV<sub>2</sub> uptake rates ranged from 79% (Dublin North West) to 98% (Roscommon).

The target uptake rate of  $\geq 95\%$  was reached in Longford/Westmeath, Donegal and Roscommon for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, HepB<sub>3</sub>, MenC<sub>2</sub> and PCV<sub>2</sub> and in Sligo/Leitrim for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, HepB<sub>3</sub> and PCV<sub>2</sub>.

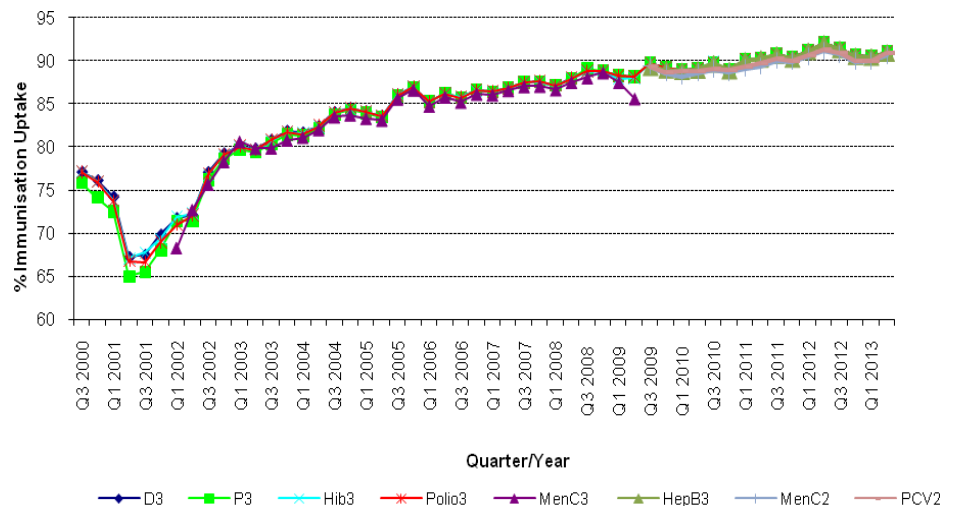
Twenty-three LHOs had  $\geq 90\%$  uptake of D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, HepB<sub>3</sub>, MenC<sub>2</sub> and PCV<sub>2</sub>.

**Table 2.** Immunisation uptake (%) at 12 months in cohort born 01/04/2012–30/06/2012

HSE Area	No. in cohort*	BCG	D <sub>3</sub> T <sub>3</sub>	P <sub>3</sub>	Hib <sub>3</sub>	Polio <sub>3</sub>	HepB <sub>3</sub>	MenC <sub>2</sub>	PCV <sub>2</sub>
Eastern	6665	94	89	89	89	89	89	89	90
Midland	1188	96	95	95	95	95	95	95	95
Mid Western	1383	98	94	94	94	94	94	94	94
North Eastern	1855	na	89	89	89	89	89	90	91
North Western	897	96	95	95	95	95	95	94	95
South Eastern	1865	96	92	92	92	92	92	92	92
Southern	2473	93	90	90	90	90	90	87	86
Western	1645	13	92	92	92	92	92	92	93
Ireland	17971 <sup>†</sup>	86	91	91	91	91	91	91	91

na = not available at this time

\*As the denominator/number in cohort varied slightly according to vaccine, most commonly used number is presented here. <sup>†</sup>Number in cohort for BCG is 16,144

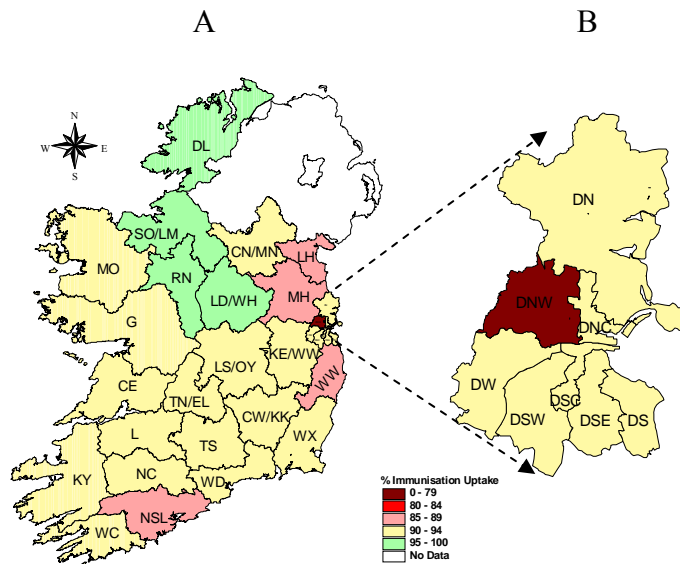


**Figure 1.** National quarterly immunisation uptake rates at 12 months

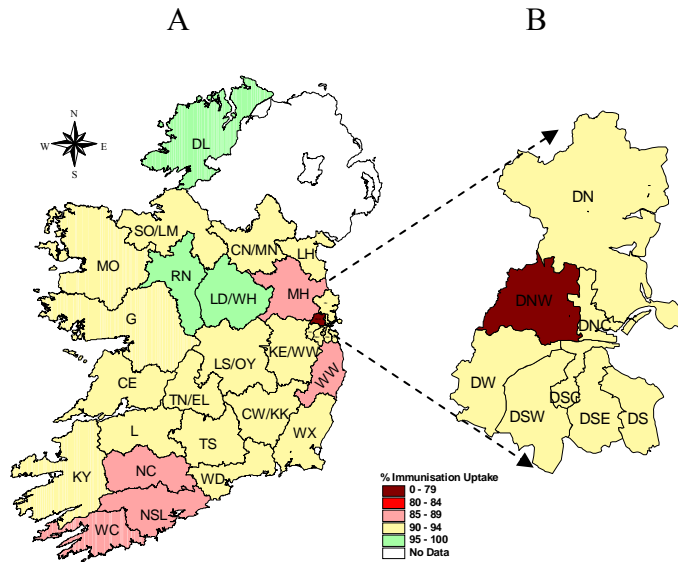
Since T<sub>3</sub> uptake identical to D<sub>3</sub> uptake only D<sub>3</sub> uptake figures presented. The Q3-2008 MenC<sub>3</sub> uptake figure is based on data from six of the eight HSE Areas. The Q1-2009 HSE-Eastern Area D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Polio<sub>3</sub> and MMR<sub>1</sub> uptake figures exclude those born on the 31/03/2007. The Q3-2009 figures are incomplete as two HSE Areas were unable to provide data, two additional areas were unable to provide MenC<sub>2</sub> data and one additional area was unable to provide PCV<sub>2</sub> data. The Q4-2009 figures are incomplete as three HSE Areas were unable to provide data. The Q1-2010 figures are incomplete as two HSE Areas were unable to provide data and three were unable to provide MenC<sub>2</sub> data. The Q2-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as one HSE Area was unable to provide data.

### Internationally

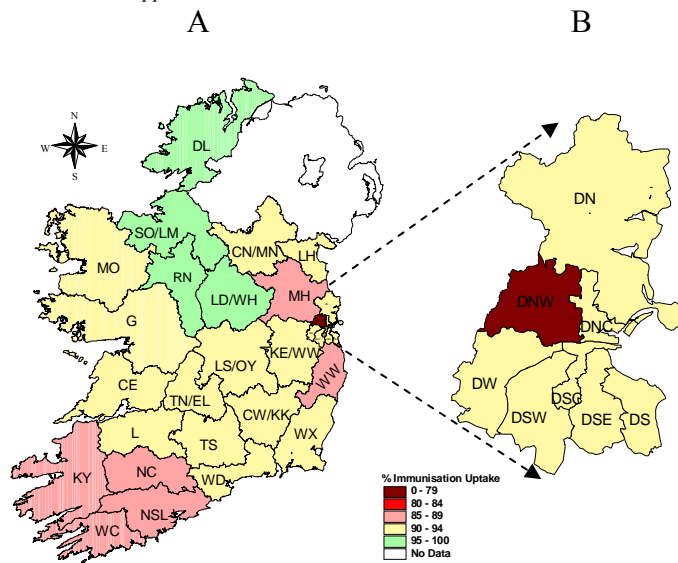
Vaccination coverage statistics for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> for children 12 months of age in Quarter 2-2013 were 94.7% in England, 96.7% in Wales, 97.7% in Northern Ireland and 97.6% in Scotland.<sup>1</sup> MenC<sub>2</sub> uptake was 94.1% in England, 96.4% in Wales, 97.7% in Northern Ireland and 97.3% in Scotland.<sup>1</sup> PCV<sub>2</sub> uptake was 94.6% in England, 96.2% in Wales, 97.7% in Northern Ireland and 97.7% in Scotland.<sup>1</sup>



**Figure 2.** D<sub>3</sub> immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



**Figure 3.** MenC<sub>2</sub> immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



**Figure 4.** PCV<sub>2</sub> immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

## Immunisation uptake at 24 months

### National and HSE Area uptake

Immunisation uptake rates in children 24 months of age in Q2-2013 are presented (Table 3). National uptake rates were 96% for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub>, 95% for HepB<sub>3</sub>, 92% for MMR<sub>1</sub>, 91% for PCV<sub>3</sub>, 89% for Hib<sub>b</sub> and 86% for MenC<sub>3</sub>. Among the HSE Areas the uptake of D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and HepB<sub>3</sub> ranged from 94-98%, MMR<sub>1</sub> ranged from 90-96%, PCV<sub>3</sub> ranged from 89-94%, MenC<sub>3</sub> ranged from 83-90% and Hib<sub>b</sub> ranged from 82-98%. The target uptake of ≥95% was reached for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> in seven of the eight HSE Areas, for HepB<sub>3</sub> in six of the HSE Areas, for Hib<sub>b</sub> in two HSE Areas, for MMR<sub>1</sub> in three HSE Areas and in none for MenC<sub>3</sub> or PCV<sub>3</sub>. Six of the eight HSE Areas were able to provide uptake data on MenC<sub>b</sub> (one dose of MenC at ≥12 months of age) and PCV<sub>b</sub> (one dose of PCV at ≥12 months of age) in Quarter 2 2013. These Areas cover approximately 80% of the national birth cohort. Where data were available, national uptake was 90% for MenC<sub>b</sub> and 93% for PCV<sub>b</sub>. The target uptake of ≥95% was reached for PCV<sub>b</sub> in three HSE Areas and in one for MenC<sub>b</sub>.

### National & HSE Area trends

Figure 5 presents the national uptake rates at 24 months for each vaccine from Q1-1999 to Q2-2013. Compared to the previous quarter, national uptake rates in Q2 2013 increased by 1% for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> and were unchanged for the remainder.

In Q2-2013, compared to the previous quarter, uptake rates in the: HSE-Eastern Area decreased by 1% for Hib<sub>b</sub>, MenC<sub>3</sub> and MenC<sub>b</sub> but were unchanged for the remainder; HSE-Midland Area decreased for MenC<sub>3</sub> (by 2%), PCV<sub>b</sub> (by 1%) and MMR<sub>1</sub> (by 1%) but were unchanged for the remainder; HSE-Mid Western Area increased by 2% for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and HepB<sub>3</sub>, were unchanged for PCV<sub>b</sub> and decreased for Hib<sub>b</sub> (by 2%), MenC<sub>3</sub> (by 4%), MenC<sub>b</sub> (by 2%), PCV<sub>3</sub> (by 1%) and MMR<sub>1</sub> (by 1%); HSE-North-Eastern Area increased by 1% for MenC<sub>3</sub> and were unchanged for the remainder; HSE-North-Western Area increased by 1-2% for all vaccines except MenC<sub>b</sub> which was unchanged; HSE-South Eastern Area increased by 1% for Hib<sub>b</sub> and MenC<sub>b</sub>, decreased by 1% for PCV<sub>3</sub> and were unchanged for the remainder; HSE-Southern Area increased by 1% for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Polio<sub>3</sub> and MMR<sub>1</sub>, were unchanged for Hib<sub>3</sub>, HepB<sub>3</sub>, PCV<sub>3</sub> and PCV<sub>b</sub> and decreased by 2% for Hib<sub>b</sub>, MenC<sub>3</sub>, and MenC<sub>b</sub>; HSE-Western Area increased by 2% for the majority of vaccines except Hib<sub>b</sub> which increased by 7%, MenC<sub>3</sub> increased by 4%, PCV<sub>3</sub> increased by 3% and MMR<sub>1</sub> which was unchanged.

### LHO uptake

Immunisation uptake rates in children 24 months of age in Q2-2013 are presented by LHO in Appendix 2. D<sub>3</sub>, Hib<sub>b</sub>, MenC<sub>3</sub>, MenC<sub>b</sub>, PCV<sub>3</sub>, PCV<sub>b</sub> and MMR<sub>1</sub> immunisation uptake rates are mapped by LHO in figures 6-12.

Among the LHOs, uptake of D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub> and Polio<sub>3</sub> ranged from 90-98%, HepB<sub>3</sub> ranged from 89% to 98%, Hib<sub>3</sub> ranged from 88-98%, PCV<sub>3</sub> ranged from 86-97%, PCV<sub>b</sub> ranged from 85-97%, MMR<sub>1</sub> ranged from 84-98%, MenC<sub>b</sub> ranged from 78-96%, MenC<sub>3</sub> ranged from 77-96% and Hib<sub>b</sub> ranged from 74-99%.

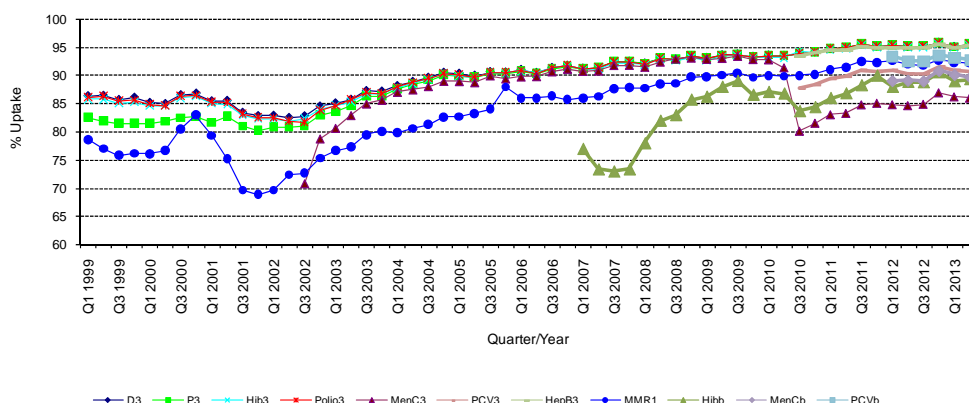
The target uptake of ≥95% was reached in 26 LHOs for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub>, 24 LHOs for HepB<sub>3</sub>, 9 for Hib<sub>b</sub>, MMR<sub>1</sub> and PCV<sub>b</sub>, 4 for MenC<sub>b</sub>, 2 for PCV<sub>3</sub>, and in one for MenC<sub>3</sub>.

All LHOs had ≥90% uptake of D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub> and Polio<sub>3</sub>, 30 had ≥90% uptake of Hib<sub>3</sub> and HepB<sub>3</sub>, 25 had ≥90% uptake of MMR<sub>1</sub>, 22 had ≥90% of PCV<sub>3</sub>, 21 had ≥90% uptake of PCV<sub>b</sub>, 18 had ≥90% of Hib<sub>b</sub> and MenC<sub>b</sub> and 8 had ≥90% uptake of MenC<sub>3</sub>.

**Table 3.** Immunisation uptake (%) at 24 months in cohort born 01/04/2011–30/06/2011

HSE Area	No. in Cohort*	D <sub>3</sub> /T <sub>3</sub> /P <sub>3</sub> / Polio <sub>3</sub>	Hib <sub>3</sub>	Hib <sub>b</sub>	HepB <sub>3</sub>	MenC <sub>3</sub>	MenC <sub>b</sub>	PCV <sub>3</sub>	PCV <sub>b</sub>	MMR <sub>1</sub>
Eastern	6778	95	95	88	95	85	88	90	92	92
Midland	1253	98	98	98	98	90	93	94	95	96
Mid Western	1375	97	97	91	97	87	91	92	94	93
North Eastern	2042	94	94	86	94	84	na	89	na	90
North Western	887	97	97	94	96	90	94	93	95	96
South Eastern	1945	96	96	97	96	90	95	93	96	95
Southern	2551	96	95	82	94	83	85	90	91	92
Western	1665	96	96	89	96	86	na	92	na	90
Ireland	18496	96	96	89	95	86	90	91	93	92

\* As the denominator/number in cohort varied slightly according to vaccine, most commonly used number is presented here.



**Figure 5.** National quarterly immunisation uptake rates at 24 months

Notes: The Q4-2005 MMR<sub>1</sub> figure is based on data from seven of the eight HSE Areas. The Q1-2006 MMR<sub>1</sub> figure includes the HSE-Eastern Area figure that is an estimate only. The Q1-2007, Q3-2007, Q2-2008 and Q3-2008 Hib<sub>b</sub> figures are based on data from seven of the eight HSE Areas. In Q1-2008 the HSE-SE changed their Hib<sub>b</sub> data extraction method compared to previous quarters; in Q1-2008 the uptake of Hib<sub>b</sub> in the HSE-SE was 83% compared to 53% in Q4-2007. The Q3-2008 MenC<sub>3</sub> figure is based on data from six of the eight HSE Areas. The Q1-2009 HSE-Eastern Area D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Polio<sub>3</sub> and MMR<sub>1</sub> uptake figures exclude those born on the 31/03/2007. The Q2-2009 HSE-Eastern Area Hib<sub>b</sub> uptake figures exclude uptake figures from Dublin North. The Q4-2009 figures are based on data from seven of the eight HSE Areas. The Q4-2009 Hib<sub>b</sub> figures also exclude uptake figures from Dublin North. The Q1-2010 figures are based on data from six of the eight HSE Areas. The Q1-2010 Hib<sub>b</sub> figures also exclude uptake figures from Dublin North. The Q2-2010 and Q4-2010 figures are based on data from seven of the eight HSE Areas.

### Internationally

In Q2-2013, vaccination coverage statistics at 24 months for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> were 96.3% in England, 97.4% in Wales, 98.7% in Northern Ireland and 98.3% in Scotland.<sup>1</sup> PCV booster was 92.8% in England, 95.8% in Wales, 96.2% in Northern Ireland and 95.8% in Scotland. Hib/MenC booster was 92.9% in England, 94.9% in Wales, 96.4% in Northern Ireland and 96.0% in Scotland.<sup>1</sup> MMR<sub>1</sub> uptake was 92.6% in England, 95.9% in Wales, 96.1% in Northern Ireland and 95.2% in Scotland.<sup>1</sup> Please see HPA report for caveats.<sup>1</sup>

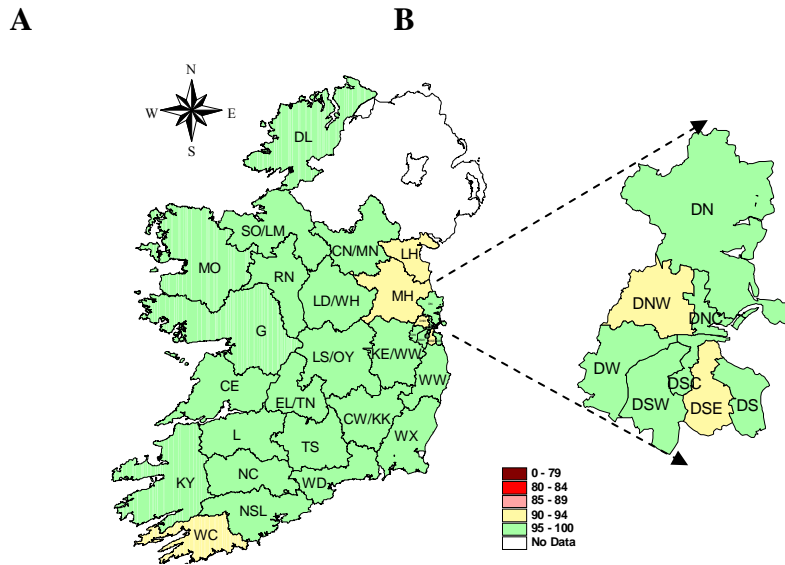
### Conclusions

In Quarter 2-2013, national uptake rates at 24 months for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and HepB<sub>3</sub> reached the target of ≥95%. Since the introduction of the new childhood schedule in September 2008 MenC<sub>3</sub> and Hib<sub>b</sub> uptake are lower than the uptake of the other recommended vaccines both of which should be given at 13 months of age suggesting that parents are less likely to get the necessary vaccines for their children at this age.

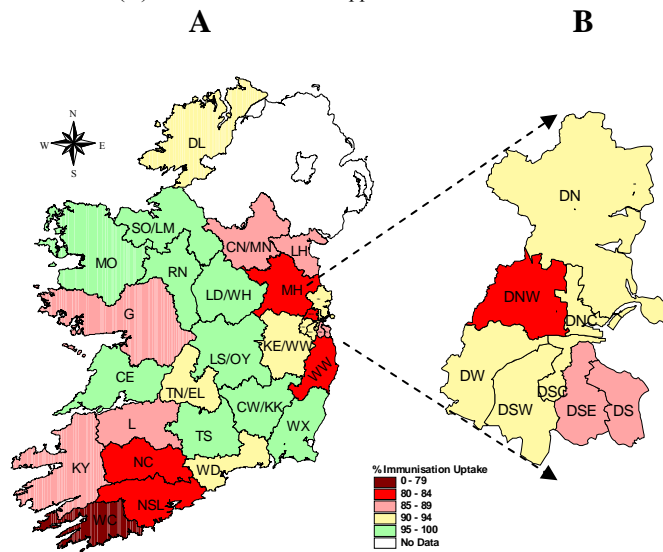
### Acknowledgements

HPSC would like to thank the HSE Areas for providing data and special thanks to the Specialists in Public Health Medicine, Immunisation Co-ordinators, Surveillance Scientists and Systems Analysts for their assistance.

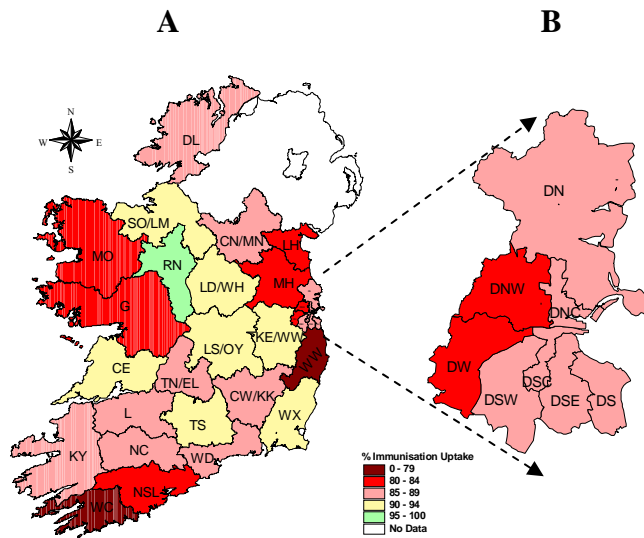




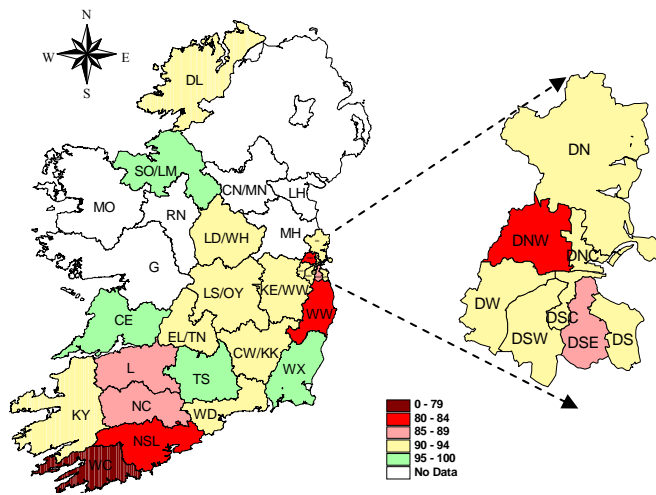
**Figure 6.** D<sub>3</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



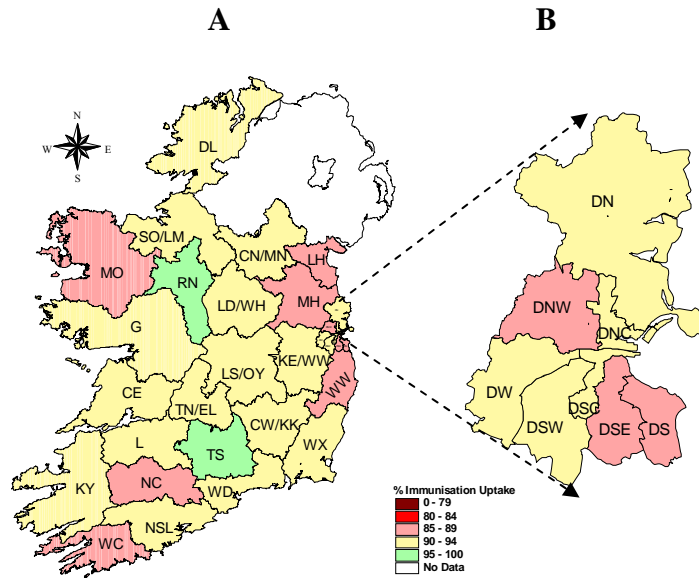
**Figure 7.** Hib<sub>6</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



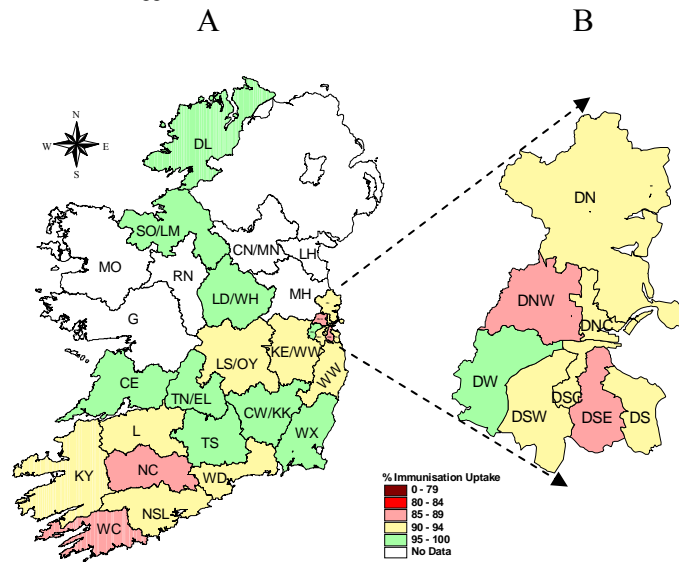
**Figure 8.** MenC<sub>3</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



**Figure 9.** MenC<sub>b</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

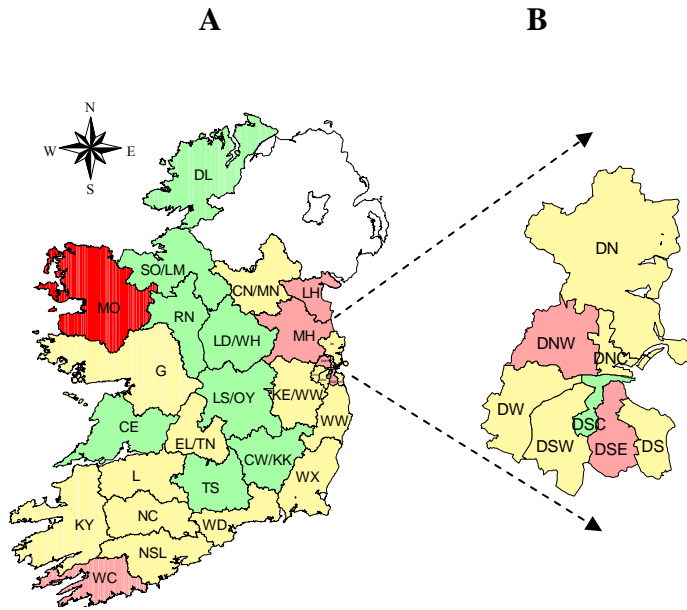


**Figure 10.** PCV<sub>3</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



**Figure 11.** PCV<sub>6</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.





**Figure 12.** MMR<sub>1</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 2-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

## Appendix 1

Immunisation Uptake at 12 Months in Cohort Born 01/04/2012-30/06/2012											
HSE Area	LHO/HSE Area	No. in cohort for BCG	No. in cohort for other vaccines*	Immunisation Uptake (%)							
				BCG	D <sub>3</sub> T <sub>3</sub>	P <sub>3</sub>	Hib <sub>3</sub>	Polio <sub>3</sub>	HepB <sub>3</sub>	MenC <sub>2</sub>	PCV <sub>2</sub>
Eastern	Dublin South	433	433	91	92	92	92	92	92	90	91
	Dublin South East	413	413	95	91	91	91	91	91	91	91
	Dublin South City	457	457	92	91	91	91	91	91	91	92
	Dublin South West	681	681	96	93	93	93	93	93	93	94
	Dublin West	701	701	94	93	93	93	93	93	93	94
	Dublin North West	1009	1009	93	79	79	79	79	79	79	79
	Dublin North Central	444	444	93	91	91	91	91	91	91	92
	Dublin North	1062	1062	94	91	91	91	91	91	91	91
	Kildare/West Wicklow	977	977	95	91	91	91	91	91	91	91
Wicklow	488	488	92	88	88	88	88	88	88	88	
<b>HSE-E Total</b>	<b>6665</b>	<b>6665</b>	<b>94</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>90</b>
Midland	Laois/Offaly	664	664	95	94	94	94	94	94	94	94
	Longford/Westmeath	524	524	97	96	96	96	96	96	96	96
	<b>HSE-M Total</b>	<b>1188</b>	<b>1188</b>	<b>96</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>
Mid Western	Clare	444	448	97	94	94	94	94	94	93	94
	Limerick	488	495	99	94	94	94	94	94	94	94
	Tipperary NR/East Limerick	430	440	97	94	94	94	94	94	94	94
	<b>HSE-MW Total</b>	<b>1362</b>	<b>1383</b>	<b>98</b>	<b>94</b>	<b>94</b>	<b>94</b>	<b>94</b>	<b>94</b>	<b>94</b>	<b>94</b>
North Eastern	Cavan/Monaghan	na	499	na	91	91	91	91	91	93	93
	Louth	na	500	na	89	89	89	89	89	91	92
	Meath	na	856	na	87	87	87	87	87	88	88
	<b>HSE-NE Total</b>	<b>na</b>	<b>1855</b>	<b>na</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>90</b>
North Western	Donegal	544	544	95	95	95	95	95	95	95	95
	Sligo/Leitrim	353	353	98	95	95	95	95	95	94	96
	<b>HSE-NW Total</b>	<b>897</b>	<b>897</b>	<b>96</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>94</b>	<b>95</b>
South Eastern	Carlow/Kilkenny	506	506	96	93	93	93	93	93	92	93
	South Tipperary	297	297	97	93	93	93	93	93	93	92
	Waterford	493	493	96	92	92	92	92	92	92	91
	Wexford	569	569	95	92	92	92	92	91	92	92
	<b>HSE-SE Total</b>	<b>1865</b>	<b>1865</b>	<b>96</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>
Southern	North Cork	368	356	92	90	90	90	90	88	88	88
	North South Lee	1415	1387	93	89	89	89	89	89	85	86
	West Cork	212	212	93	90	90	90	90	90	86	86
	Kerry	527	518	92	92	92	92	92	92	90	88
	<b>HSE-S Total</b>	<b>2522</b>	<b>2473</b>	<b>93</b>	<b>90</b>	<b>90</b>	<b>90</b>	<b>90</b>	<b>90</b>	<b>87</b>	<b>86</b>
Western	Galway	na	967	na	92	92	92	92	92	92	92
	Mayo	na	465	na	91	91	91	91	91	90	92
	Roscommon	na	213	na	96	96	96	96	96	98	98
	<b>HSE-W Total</b>	<b>1645</b>	<b>1645</b>	<b>13</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>92</b>	<b>93</b>
<b>Ireland</b>	<b>16144</b>	<b>17971</b>	<b>86</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>91</b>	

na=not available

\* As the denominator/number in cohort varied slightly according to vaccine, most commonly used number is presented here.

Please note while North Lee and South Lee are two separate LHOs their combined immunisation uptake data are reported here.

## Appendix 2

Immunisation uptake (%) at 24 months of age in cohort born 01/04/2011-30/06/2011													
HSE Area	LHO/HSE Area	No. in cohort*	Immunisation Uptake (%)										
			D <sub>3</sub> T <sub>3</sub>	P <sub>3</sub>	Hib <sub>3</sub>	Hib <sub>b</sub>	Polio <sub>3</sub>	HepB <sub>3</sub>	MenC <sub>3</sub>	MenC <sub>b</sub>	PCV <sub>3</sub>	PCV <sub>b</sub>	MMR <sub>1</sub>
Eastern	Dublin South	433	95	95	95	88	95	95	87	90	89	91	91
	Dublin South East	473	91	91	91	86	91	91	85	86	88	89	88
	Dublin South City	441	98	98	98	90	98	98	86	90	91	94	95
	Dublin South West	697	97	97	97	92	97	96	87	92	90	93	94
	Dublin West	703	97	97	97	90	97	96	84	90	91	95	93
	Dublin North West	972	94	94	94	82	94	94	80	82	87	89	88
	Dublin North Central	427	96	96	96	90	96	96	88	90	91	92	92
	Dublin North	1128	95	95	95	90	95	95	87	90	90	92	92
	Kildare/West Wicklow	1041	95	95	95	92	95	95	90	82	93	94	94
	Wicklow	463	95	95	95	83	95	94	78	82	88	91	90
<b>HSE-E Total</b>	<b>6778</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>88</b>	<b>95</b>	<b>95</b>	<b>85</b>	<b>88</b>	<b>90</b>	<b>92</b>	<b>92</b>	
Midland	Laois/Offaly	727	97	97	97	97	97	97	90	93	93	94	95
	Longford/Westmeath	526	98	98	98	98	98	98	90	94	94	97	96
	<b>HSE-M Total</b>	<b>1253</b>	<b>98</b>	<b>98</b>	<b>98</b>	<b>98</b>	<b>98</b>	<b>98</b>	<b>90</b>	<b>93</b>	<b>94</b>	<b>95</b>	<b>96</b>
Mid Western	Clare	437	95	95	95	95	95	95	92	95	94	95	95
	Limerick	467	96	96	96	89	96	96	85	89	90	92	91
	Tipperary NR/East Limeric	471	98	98	98	91	98	98	86	90	93	96	94
	<b>HSE-MW Total</b>	<b>1375</b>	<b>97</b>	<b>97</b>	<b>97</b>	<b>91</b>	<b>97</b>	<b>97</b>	<b>87</b>	<b>91</b>	<b>92</b>	<b>94</b>	<b>93</b>
North Eastern	Cavan/Monaghan	542	96	96	96	88	96	96	86	na	91	na	92
	Louth	531	92	92	92	86	92	92	83	na	88	na	88
	Meath	969	94	94	94	84	94	94	82	na	88	na	89
	<b>HSE-NE Total</b>	<b>2042</b>	<b>94</b>	<b>94</b>	<b>94</b>	<b>86</b>	<b>94</b>	<b>94</b>	<b>84</b>	<b>na</b>	<b>89</b>	<b>na</b>	<b>90</b>
North Western	Donegal	580	97	97	97	93	97	96	89	92	93	95	95
	Sligo/Leitrim	307	97	97	97	96	97	98	91	96	93	96	98
	<b>HSE-NW Total</b>	<b>887</b>	<b>97</b>	<b>97</b>	<b>97</b>	<b>94</b>	<b>97</b>	<b>96</b>	<b>90</b>	<b>94</b>	<b>93</b>	<b>95</b>	<b>96</b>
South Eastern	Carlow/Kilkenny	517	95	95	95	97	95	95	88	94	92	96	96
	South Tipperary	402	98	98	98	99	98	98	92	96	95	96	95
	Waterford	479	96	96	96	94	96	96	89	93	94	94	94
	Wexford	547	97	97	97	99	97	97	90	96	92	96	94
	<b>HSE-SE Total</b>	<b>1945</b>	<b>96</b>	<b>96</b>	<b>96</b>	<b>97</b>	<b>96</b>	<b>96</b>	<b>90</b>	<b>95</b>	<b>93</b>	<b>96</b>	<b>95</b>
Southern	North Cork	378	96	96	95	84	96	94	85	88	88	88	90
	North South Lee	1476	96	96	96	82	96	95	82	84	91	91	92
	West Cork	183	90	90	88	74	90	89	77	78	86	85	89
	Kerry	514	97	97	96	86	97	96	87	90	90	93	93
	<b>HSE-S Total</b>	<b>2551</b>	<b>96</b>	<b>96</b>	<b>95</b>	<b>82</b>	<b>96</b>	<b>94</b>	<b>83</b>	<b>85</b>	<b>90</b>	<b>91</b>	<b>92</b>
Western	Galway	990	96	96	96	85	96	96	84	na	92	na	91
	Mayo	437	95	95	95	95	95	95	84	na	89	na	84
	Roscommon	238	98	98	98	97	98	98	96	na	97	na	97
	<b>HSE-W Total</b>	<b>1665</b>	<b>96</b>	<b>96</b>	<b>96</b>	<b>89</b>	<b>96</b>	<b>96</b>	<b>86</b>	<b>na</b>	<b>92</b>	<b>na</b>	<b>90</b>
<b>Ireland</b>	<b>18496</b>	<b>96</b>	<b>96</b>	<b>96</b>	<b>89</b>	<b>96</b>	<b>95</b>	<b>86</b>	<b>90</b>	<b>91</b>	<b>93</b>	<b>92</b>	

na=not available

\*As the denominator/number in cohort varied slightly according to vaccine. The most commonly used number is reported here.

Please note while North Lee and South Lee are two separate LHOs their combined immunisation uptake data are reported here.

### Appendix 3

Local Health Office (LHO) Abbreviations (used in maps in this report)	Local Health Office (LHO)
CE	Clare
CN/MN	Cavan/Monaghan
CW/KK	Carlow/Kilkenny
DL	Donegal
DN	Dublin North
DNC	Dublin North Central
DNW	Dublin North West
DS	Dublin South
DSC	Dublin South City
DSE	Dublin South East
DSW	Dublin South West
DW	Dublin West
G	Galway
KE/WW	Kildare/West Wicklow
KY	Kerry
L	Limerick
LD/WD	Longford/Westmeath
LH	Louth
LS/OY	Laois/Offaly
MH	Meath
MO	Mayo
NC	North Cork
NSL*	North South Lee*
RN	Roscommon
SO/LM	Sligo/Leitrim
TN/EL	Tipperary North /East Limerick
TS	South Tipperary
WC	West Cork
WD	Waterford
WX	Wexford
WW	Wicklow

\*Please note while North Lee and South Lee are two separate LHOs their combined immunisation uptake data are reported here