

Summary

Children 12 months of age in Quarter 3-2013

- National immunisation uptake rates were 92% for D₃, P₃, T₃, Hib₃, Polio₃, HepB₃, and PCV₂ and 91% for MenC₂. Compared to Q2-2013, national uptake rates in Q3-2013 for D₃, P₃, T₃, Hib₃, Polio₃, HepB₃, and PCV₂ increased by 1% while MenC₂ was unchanged.
- 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 HepB₃ and MenC₂.
- Among the Local Health Offices, the target uptake rate of ≥95% was reached in 11 LHOs for D₃, P₃, T₃ and Polio₃, in 10 LHOs for Hib₃ and HepB₃, in 8 for PCV₂ and in 7 for MenC₂.
- BCG uptake data were available for seven of the eight HSE Areas in Q3-2013; these areas cover approximately 90% of the national birth cohort. Where data were available, national uptake was 86% for the BCG vaccination. This is unchanged compared to Q2 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 four LHOs (three in the HSE Eastern Area and one in the HSE Southern Area) also reached the target uptake rate.

Children 24 months of age in Quarter 3-2013

- National uptake rates were 96% for D₃, P₃, T₃, Hib₃ and Polio₃, 95% for HepB₃, 93% for MMR₁, 91% for PCV₃, 90% for Hib_b and 86% for MenC₃. Compared to the previous quarter, national uptake rates in Q3 2013 increased by 1% for Hib_b and MMR₁ and were unchanged for the remainder.
- The target uptake of ≥95% was reached for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃ in seven of the HSE Areas, for Hib_b in three HSE Areas, for MMR₁ in two HSE Areas and in none for MenC₃ or PCV₃.
- Six of the eight HSE Areas were able to provide uptake data on MenC_b (one dose of MenC at ≥12 months of age) and PCV_b (one dose of PCV at ≥12 months of age) in Quarter 3 2013. These Areas cover approximately 80% of the national birth cohort. Where data were available, national uptake was 90% for MenC_b and 93% for PCV_b. The target uptake of ≥95% was reached for PCV_b in four HSE Areas and in none for MenC_b.
- The target uptake of ≥95% was reached in 23 LHOs for D₃, P₃, T₃ and Polio₃, 21 LHOs for Hib₃ and HepB₃, 10 for PCV_b, 9 for Hib_b and MMR₁, 5 for MenC_b, 3 for PCV₃ and in one for MenC₃.

Introduction

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

Compared to the previous schedule (table 1), the changes to the primary schedule for children born on or after 1st 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 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 3-2013.

The immunisation uptake rates presented in this report for children at 12 months of age in Quarter 3-2013 are children born between 01/07/2012 and 30/09/2012 and who have received three doses of vaccines against diphtheria (D₃), pertussis (P₃), tetanus (T₃), *Haemophilus influenzae* type b (Hib₃), polio (Polio₃), hepatitis B (HepB₃), two doses of meningococcal serogroup C conjugate vaccine (MenC₂), two doses of pneumococcal conjugate vaccine (PCV₂) and one dose of BCG vaccine.

The immunisation uptake rates presented in this report for children at 24 months of age in Quarter 3-2013 are children born between 01/07/2011 and 30/09/2011 and who have received three doses of vaccines against diphtheria (D₃), pertussis (P₃), tetanus (T₃), *Haemophilus influenzae* type b (Hib₃), polio (Polio₃), hepatitis B (HepB₃), meningococcal group C (MenC₃) and pneumococcal conjugate vaccine (PCV₃), one booster dose of vaccine against *Haemophilus influenzae* type b on or after 12 months of age (Hib_b), one dose of vaccine against meningococcal group C (MenC_b) on or after twelve months of age, one dose of vaccine against pneumococcal conjugate vaccine (PCV_b) on or after twelve months of age and one dose of vaccine against measles, mumps and rubella (MMR₁). The Quarter 3-2013 cohort of children at 24 months was therefore the thirteenth 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 3-2013 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 1st 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 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 Q3-2013 are presented by HSE Area in table 2. National uptake rates were 92% for D₃, P₃, T₃, Hib₃, Polio₃, HepB₃ and PCV₂ and 91% for MenC₂. Among the HSE Areas, the uptake rates for D₃, P₃, T₃, Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂ ranged from 88% 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 HepB₃ and MenC₂.

BCG uptake data were available for seven of the eight HSE Areas in Q3-2013; these areas cover approximately 90% of the national birth cohort. Where data were available, national uptake was 86% for the BCG vaccination, unchanged from the previous quarter. 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 four LHOs (three in the HSE Eastern Area and one in the HSE Southern Area) also reached the target uptake rate (Appendix 1).

National & HSE Area trends

Figure 1 presents the national uptake rates at 12 months for each vaccine from Q3-2000 to Q3-2013. Compared to Q2-2013, national uptake rates in Q3-2013 for D₃, P₃, T₃, Hib₃, Polio₃, HepB₃ and PCV₂ increased by 1% while MenC₂ was unchanged.

In Q3-2013, compared to the previous quarter, uptake rates in the: HSE-Eastern Area were unchanged for BCG, increased by 1% for PCV₂ and increased by 2% for the remainder; HSE-Midland Area were unchanged for all vaccines; HSE-Mid Western Area decreased by 1% for BCG and were unchanged for the remainder; HSE-North-Eastern Area decreased by 1% for all vaccines except PCV₂ which decreased by 2%; HSE-North-Western Area was unchanged for all vaccines except HepB₃ which decreased by 1%; HSE-South Eastern Area increased by 1% for all vaccines: HSE-Southern Area increased by 1% for D₃, T₃, P₃, Hib₃, Polio₃, MenC₂, unchanged for BCG and HepB₃ and increased by 2% for PCV₂; HSE-Western decreased by 1% for BCG and increased by 1% for all other vaccines.

LHO uptake

The immunisation uptake rates by LHO are shown in appendix 1. D₃, MenC₂ and PCV₂ immunisation uptake rates are mapped by LHO in figures 2-4.

Among the 25 LHOs reporting BCG data, BCG uptake ranged from 87% to 99% with 15 reporting uptake of $\geq 95\%$.

D₃, P₃, T₃ and Polio₃ uptake rates ranged from 84% (Dublin North West) to 99% (North Cork). Hib₃ uptake rates ranged from 84% (Dublin North West) to 97% (North Cork and Roscommon). HepB₃, MenC₂ and PCV₂ uptake rates ranged from 84% (Dublin North West) to 97% (Roscommon).

The target uptake rate of $\geq 95\%$ was reached in 11 LHOs for D₃, P₃, T₃ and Polio₃, in 10 LHOs for Hib₃ and HepB₃, in 8 for PCV₂ and in 7 for MenC₂.

Twenty-five LHOs had $\geq 90\%$ uptake of PCV₂; 24 LHOs had $\geq 90\%$ uptake of D₃, P₃, T₃ and Polio₃; and 23 LHOs had $\geq 90\%$ uptake of Hib₃, Polio₃, HepB₃ and MenC₂.

Table 2. Immunisation uptake (%) at 12 months in cohort born 01/07/2012–30/09/2012

HSE Area	No. in cohort*	BCG	D ₃ T ₃	P ₃	Hib ₃	Polio ₃	HepB ₃	MenC ₂	PCV ₂
Eastern	6946	94	91	91	91	91	91	91	91
Midland	1167	96	95	95	95	95	95	95	95
Mid Western	1382	97	94	94	94	94	94	94	94
North Eastern	1916	na	88	88	88	88	88	89	89
North Western	974	96	95	95	95	95	94	94	95
South Eastern	1878	96	93	93	93	93	93	93	93
Southern	2610	93	91	91	91	91	90	88	88
Western	1683	12	93	93	93	93	93	93	94
Ireland	18556 [†]	86	92	92	92	92	92	91	92

na = not available at this time

*As the denominator/number in cohort varied slightly according to vaccine, most commonly used number is presented here. [†]Number in cohort for BCG is 16,640

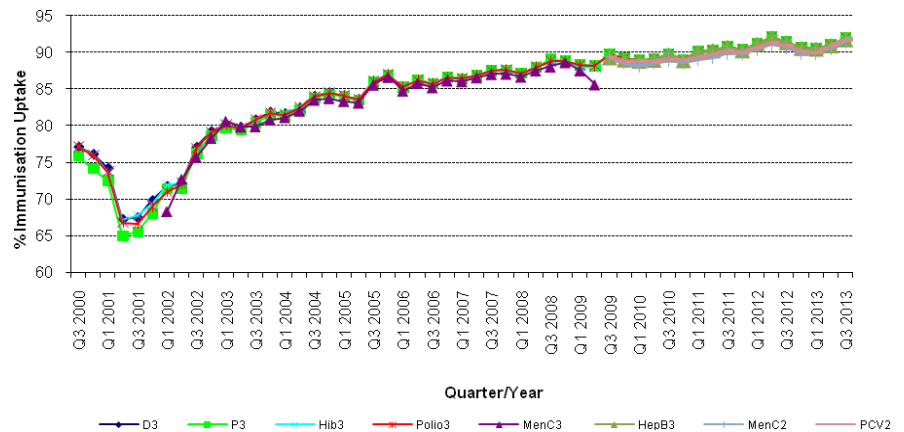


Figure 1. National quarterly immunisation uptake rates at 12 months

Since T₃ uptake identical to D₃, uptake only D₃ uptake figures presented. The Q3-2008 MenC₃ uptake figure is based on data from six of the eight HSE Areas. The Q1-2009 HSE-Eastern Area D₃, P₃, T₃, Polio₃ and MMR₁ 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 MenC₂ data and one additional area was unable to provide PCV₂ 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 MenC₂ 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 D₃, P₃, T₃, Hib₃ and Polio₃ for children 12 months of age in Quarter 3-2013 were 94.3% in England, 96.7% in Wales, 97.4% in Northern Ireland and 97.6% in Scotland.¹ MenC₂ uptake was 93.1% in England, 95.9% in Wales, 96.8% in Northern Ireland and 96.8% in Scotland.¹ PCV₂ uptake was 94.3% in England, 96.4% in Wales, 97.4% in Northern Ireland and 97.7% in Scotland.¹ Please see the Health Protection Report for caveats to data.¹

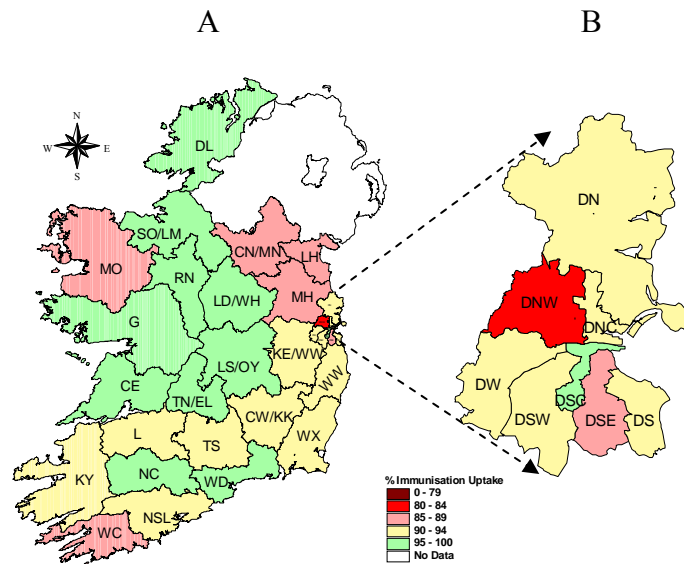


Figure 2. D₃ immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

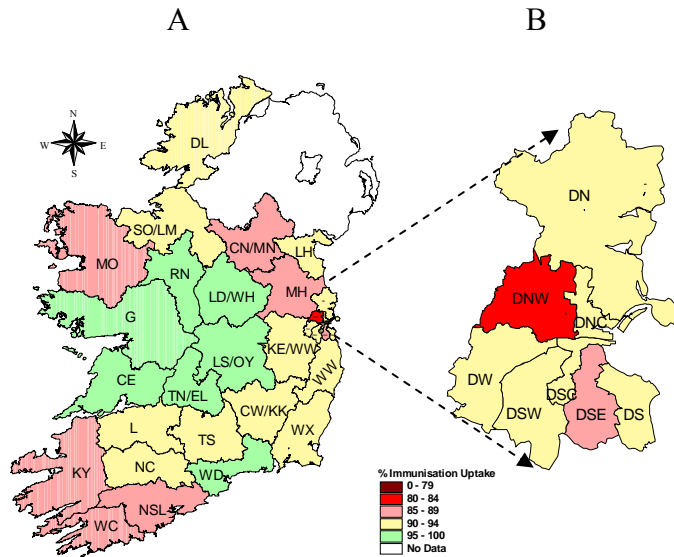


Figure 3. MenC₂ immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

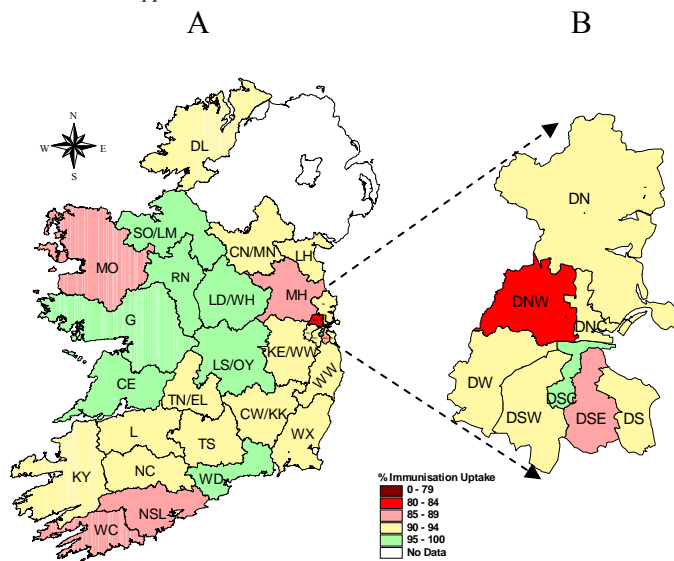


Figure 4. PCV₂ immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

Immunisation uptake at 24 months

National and HSE Area uptake

Immunisation uptake rates in children 24 months of age in Q3-2013 are presented (Table 3). National uptake rates were 96% for D₃, P₃, T₃, Hib₃ and Polio₃, 95% for HepB₃, 93% for MMR₁, 91% for PCV₃, 90% for Hib_b and 86% for MenC₃. Among the HSE Areas the uptake of D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃ ranged from 94-98%, MMR₁ ranged from 90-96%, PCV₃ ranged from 89-94%, MenC₃ ranged from 82-90% and Hib_b ranged from 84-98%. The target uptake of ≥95% was reached for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃ in seven of the HSE Areas, for Hib_b in three HSE Areas, for MMR₁ in two HSE Areas and in none for MenC₃ or PCV₃. Six of the eight HSE Areas were able to provide uptake data on MenC_b (one dose of MenC at ≥12 months of age) and PCV_b (one dose of PCV at ≥12 months of age) in Quarter 3 2013. These Areas cover approximately 80% of the national birth cohort. Where data were available, national uptake was 90% for MenC_b and 93% for PCV_b. The target uptake of ≥95% was reached for PCV_b in four HSE Areas and in none for MenC_b.

National & HSE Area trends

Figure 5 presents the national uptake rates at 24 months for each vaccine from Q1-1999 to Q3-2013. Compared to the previous quarter, national uptake rates in Q3 2013 increased by 1% for Hib_b and MMR₁ and were unchanged for the remainder.

In Q3-2013, compared to the previous quarter, uptake rates in the: HSE-Eastern Area increased by 1% for Hib_b and MenC₃ but were unchanged for the remainder; HSE-Midland Area decreased for MenC_b and PCV₃ by 1%, PCV_b increased by 1% while the remainder were unchanged; HSE-Mid Western Area decreased by 1% for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃, increased by 1% for MenC₃, PCV₃, PCV_b and MMR₁ and were unchanged for Hib_b and MenC_b; HSE-North-Eastern Area decreased by 1% for Hib_b and 2% for MenC₃ and were unchanged for the remainder; HSE-North-Western Area decreased for MenC₃ (by 4%), for PCV₃ (by 3%), MMR₁ (by 2%), Hib_b and MenC_b (by 1%) and were unchanged for the remainder; HSE-South Eastern Area decreased by 1% for Hib_b, MenC_b and PCV_b, increased by 1% for D₃, T₃, P₃, Hib₃, Polio₃ and PCV₃ and were unchanged for the remainder; HSE-Southern Area increased by 2% for Hib_b and MenC₃, increased by 1% for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃ and were unchanged for the remainder; HSE-Western increased for Hib_b (by 7%), MenC₃ (by 3%) MMR₁ (by 2%), PCV₃ (by 1%) and were unchanged for the remainder.

LHO uptake

Immunisation uptake rates in children 24 months of age in Q3-2013 are presented by LHO in Appendix 2. D₃, Hib_b, MenC₃, MenC_b, PCV₃, PCV_b and MMR₁ immunisation uptake rates are mapped by LHO in figures 6-12.

Among the LHOs, uptake of D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃ ranged from 91-99%, MMR₁ ranged from 88-97%, PCV₃ ranged from 84-97%, MenC_b ranged from 83-97%, PCV_b ranged from 82-98%, Hib_b ranged from 78-100%, MenC₃ ranged from 78-97%.

The target uptake of ≥95% was reached in 23 LHOs for D₃, P₃, T₃ and Polio₃, 21 LHOs for Hib₃ and HepB₃, 10 for PCV_b, 9 for Hib_b and MMR₁, 5 for MenC_b, 3 for PCV₃ and in one for MenC₃.

All LHOs had ≥90% uptake of D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃, 25 had ≥90% uptake of MMR₁, 22 had ≥90% of PCV₃, 21 had ≥90% uptake of PCV_b, 17 had ≥90% of Hib_b, 16 had ≥90% of MenC_b and 9 had ≥90% uptake of MenC₃.

Table 3. Immunisation uptake (%) at 24 months in cohort born 01/07/2011–30/09/2011

HSE Area	No. in Cohort*	D ₃ /T ₃ /P ₃ / Polio ₃	Hib ₃	Hib _b	HepB ₃	MenC ₃	MenC _b	PCV ₃	PCV _b	MMR ₁
Eastern	7026	95	95	89	95	86	88	90	92	92
Midland	1206	98	98	98	98	90	92	93	96	96
Mid Western	1534	96	96	91	96	88	91	93	95	94
North Eastern	2142	94	94	85	94	82	na	89	na	90
North Western	959	97	97	93	96	86	93	90	95	94
South Eastern	2048	97	97	96	96	90	94	94	95	95
Southern	2576	97	96	84	95	85	87	90	91	92
Western	1707	96	96	96	96	89	na	93	na	92
Ireland	19198	96	96	90	95	86	90	91	93	93

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

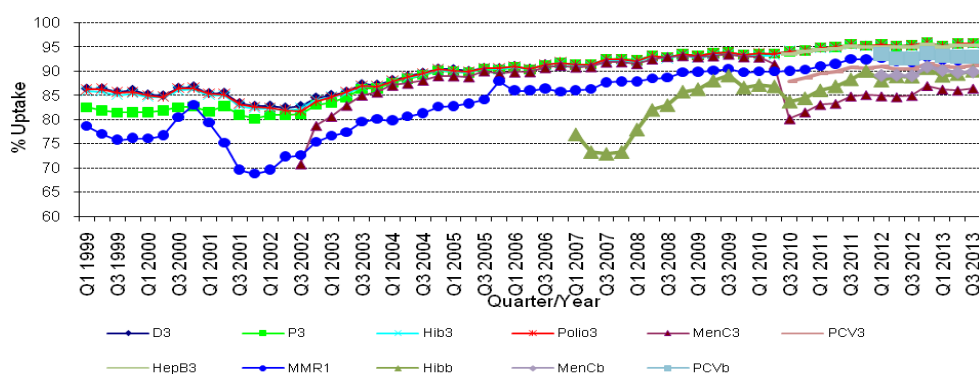


Figure 5. National quarterly immunisation uptake rates at 24 months

Notes: The Q4-2005 MMR₁ figure is based on data from seven of the eight HSE Areas. The Q1-2006 MMR₁ figure includes the HSE-Eastern Area figure that is an estimate only. The Q1-2007, Q3-2007, Q2-2008 and Q3-2008 Hib_b figures are based on data from seven of the eight HSE Areas. In Q1-2008 the HSE-SE changed their Hib_b data extraction method compared to previous quarters; in Q1-2008 the uptake of Hib_b in the HSE-SE was 83% compared to 53% in Q4-2007. The Q3-2008 MenC₃ figure is based on data from six of the eight HSE Areas. The Q1-2009 HSE-Eastern Area D₃, P₃, T₃, Polio₃ and MMR₁ uptake figures exclude those born on the 31/03/2007. The Q2-2009 HSE-Eastern Area Hib_b 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_b 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_b 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 Q3-2013, vaccination coverage statistics at 24 months for D₃, P₃, T₃, Hib₃ and Polio₃ were 96.3% in England, 97.9% in Wales, 98.8% in Northern Ireland and 98.2% in Scotland.¹ PCV booster was 92.7% in England, 96.5% in Wales, 95.9% in Northern Ireland and 95.9% in Scotland. Hib/MenC booster was 92.7% in England, 95.8% in Wales, 96.0% in Northern Ireland and 96.1% in Scotland.¹ MMR₁ uptake was 92.7% in England, 98.4% in Wales, 96.0% in Northern Ireland and 95.6% in Scotland.¹ Please see HPA report for caveats.¹

Conclusions

In Quarter 3-2013, national uptake rates at 24 months for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃ reached the target of ≥95%. Since the introduction of the new childhood schedule in September 2008 MenC₃ and Hib_b 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.

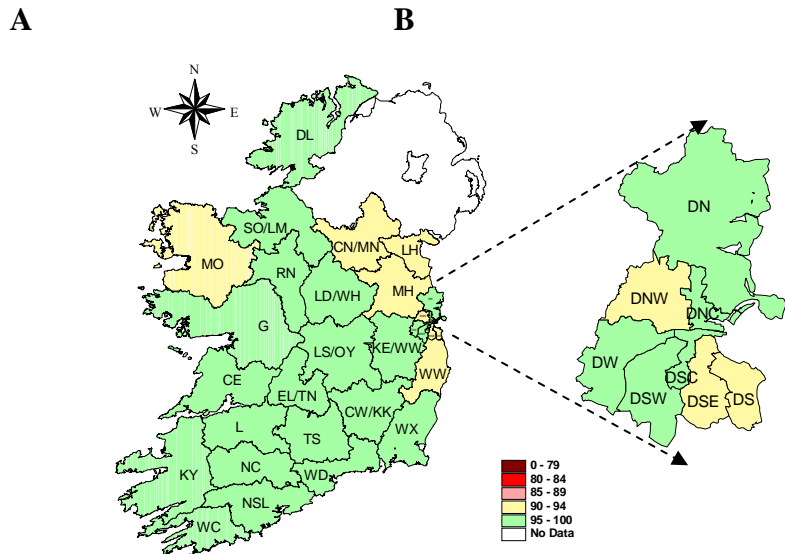


Figure 6. D₃ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

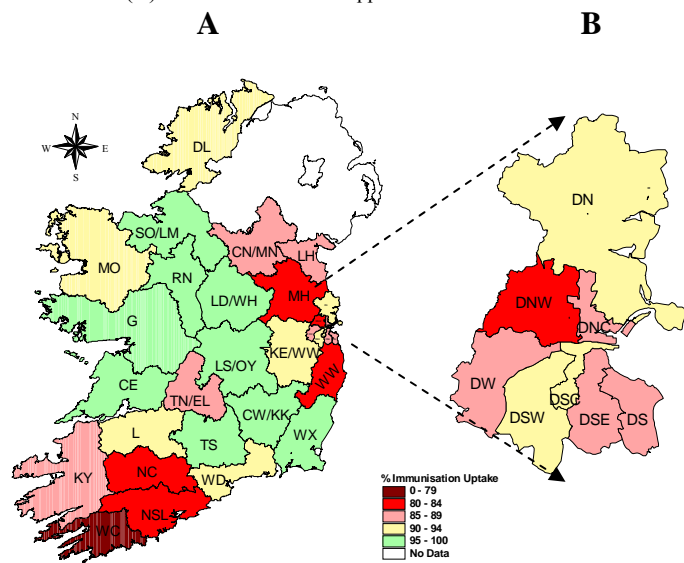


Figure 7. Hib₆ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

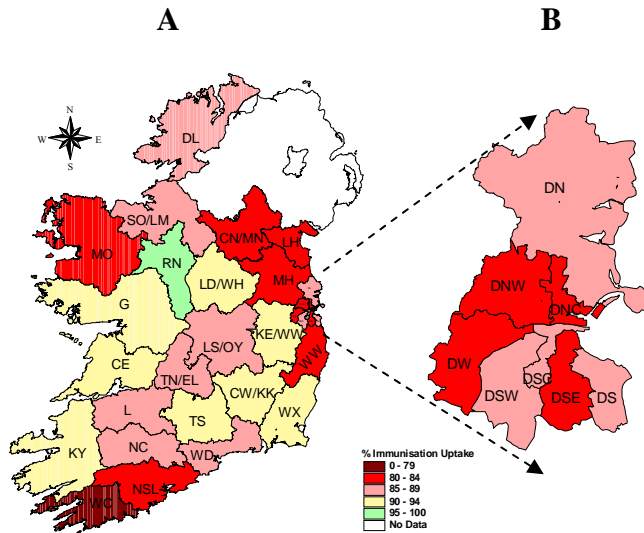


Figure 8. MenC₃ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

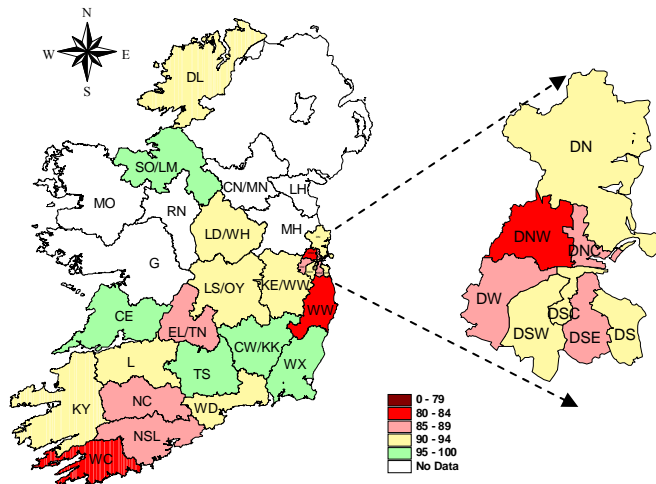


Figure 9. MenC_b immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

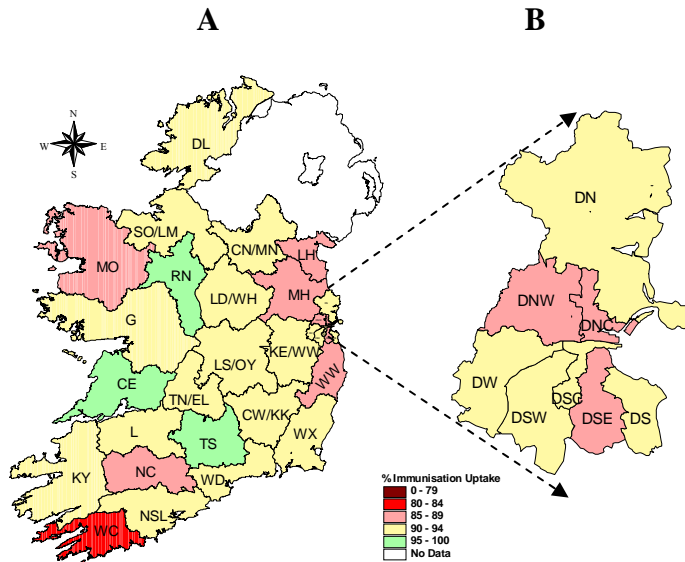


Figure 10. PCV₃ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

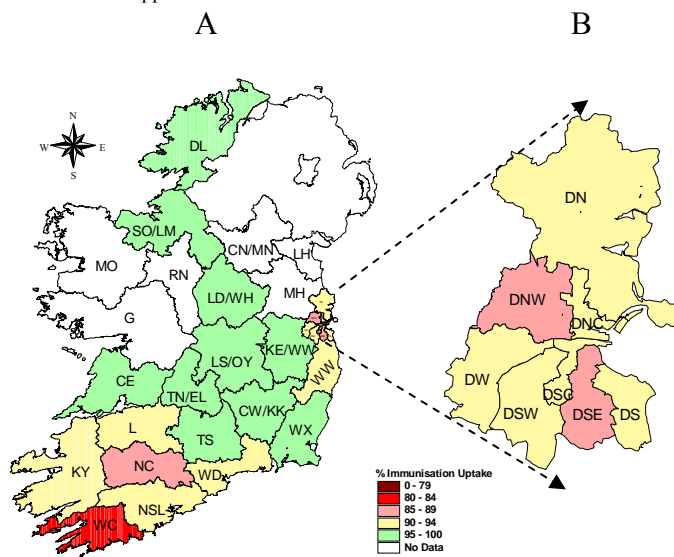


Figure 11. PCV₆ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

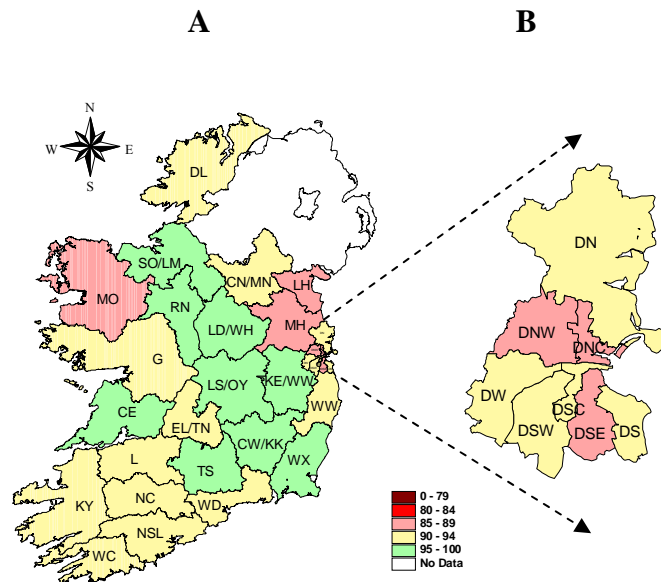


Figure 12. MMR₁ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2013, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

Appendix 1

Immunisation Uptake at 12 Months in Cohort Born 01/07/2012-30/09/2012											
HSE Area	LHO/HSE Area	No. in cohort for BCG	No. in cohort for other vaccines [*]	Immunisation Uptake (%)							
				BCG	D ₃ T ₃	P ₃	Hib ₃	Polio ₃	HepB ₃	MenC ₂	PCV ₂
Eastern	Dublin South	501	501	93	92	92	92	92	92	91	93
	Dublin South East	440	440	90	88	88	88	88	88	87	88
	Dublin South City	438	438	87	95	95	95	95	95	93	95
	Dublin South West	652	652	97	94	94	94	94	94	94	94
	Dublin West	808	808	92	93	93	93	93	93	93	94
	Dublin North West	1032	1032	94	84	84	84	84	84	84	84
	Dublin North Central	467	467	93	91	91	91	91	91	91	91
	Dublin North	1104	1104	96	92	92	92	92	92	92	92
	Kildare/West Wicklow	1017	1017	97	94	94	94	94	94	94	94
Wicklow	487	487	92	93	93	93	93	93	92	93	
HSE-E Total	6946	6946	94	91	91	91	91	91	91	91	91
Midland	Laois/Offaly	637	637	96	95	95	95	95	95	95	95
	Longford/Westmeath	530	530	95	96	96	96	96	96	96	96
	HSE-M Total	1167	1167	96	95	95	95	95	95	95	95
Mid Western	Clare	419	432	99	95	95	95	95	95	95	95
	Limerick	451	479	96	92	92	92	92	92	92	92
	Tipperary NR/East Limerick	449	471	98	95	95	95	95	95	95	94
	HSE-MW Total	1319	1382	97	94	94	94	94	94	94	94
North Eastern	Cavan/Monaghan	na	528	na	89	89	89	89	89	89	90
	Louth	na	504	na	89	89	89	89	89	90	90
	Meath	na	884	na	87	87	87	87	87	89	89
	HSE-NE Total	na	1916	na	88	88	88	88	88	89	89
North Western	Donegal	587	587	96	95	95	94	95	94	94	94
	Sligo/Leitrim	387	387	96	95	95	95	95	95	94	96
	HSE-NW Total	974	974	96	95	95	95	95	94	94	95
South Eastern	Carlow/Kilkenny	515	515	95	92	92	92	92	92	91	92
	South Tipperary	306	306	97	92	92	92	92	92	92	93
	Waterford	500	500	98	95	95	95	95	95	96	95
	Wexford	557	557	96	92	92	92	92	92	92	92
	HSE-SE Total	1878	1878	96	93	93	93	93	93	93	93
Southern	North Cork	418	399	87	99	99	97	99	96	90	90
	North South Lee	1586	1553	95	90	90	89	90	89	88	88
	West Cork	189	185	90	86	86	86	86	86	85	85
	Kerry	480	473	94	92	92	91	92	90	89	90
	HSE-S Total	2673	2610	93	91	91	91	91	90	88	88
Western	Galway	na	1000	na	95	95	95	95	95	95	95
	Mayo	na	448	na	88	88	88	88	88	87	89
	Roscommon	na	235	na	97	97	97	97	97	97	97
	HSE-W Total	1683	1683	12	93	93	93	93	93	93	94
Ireland	16640	18556	86	92	92	92	92	92	91	92	

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 01/07/2011-30/09/2011													
HSE Area	LHO/HSE Area	No. in cohort*	Immunisation Uptake (%)										
			D ₃ T ₃	P ₃	Hib ₃	Hib _b	Polio ₃	HepB ₃	MenC ₃	MenC _b	PCV ₃	PCV _b	MMR ₁
Eastern	Dublin South	463	94	94	94	89	94	94	87	90	90	92	92
	Dublin South East	433	91	91	91	85	91	91	84	85	87	89	88
	Dublin South City	461	97	97	97	91	97	97	89	90	92	94	94
	Dublin South West	726	96	96	96	93	96	96	88	92	91	94	94
	Dublin West	717	96	96	96	87	96	96	84	87	91	93	92
	Dublin North West	1079	93	93	93	84	93	93	81	84	87	89	88
	Dublin North Central	457	96	96	96	87	96	96	83	87	86	90	89
	Dublin North	1138	95	95	95	91	95	95	89	91	93	94	93
	Kildare/West Wicklow	1072	97	97	97	93	97	97	90	93	93	95	95
	Wicklow	480	94	94	94	83	94	94	80	83	88	90	90
HSE-E Total	7026	95	95	95	89	95	95	86	88	90	92	92	
Midland	Laois/Offaly	696	99	99	99	99	99	99	89	92	93	96	96
	Longford/Westmeath	510	97	97	97	97	97	97	91	92	94	96	97
	HSE-M Total	1206	98	98	98	98	98	98	90	92	93	96	96
Mid Western	Clare	439	96	96	96	95	96	96	92	95	96	97	96
	Limerick	558	95	95	95	90	95	95	87	90	91	92	93
	Tipperary NR/East Limeric	537	96	96	96	89	96	96	85	89	93	95	94
	HSE-MW Total	1534	96	96	96	91	96	96	88	91	93	95	94
North Eastern	Cavan/Monaghan	617	94	94	94	85	94	94	82	na	90	na	91
	Louth	536	92	92	92	85	92	92	83	na	88	na	88
	Meath	989	94	94	94	84	94	94	83	na	89	na	89
	HSE-NE Total	2142	94	94	94	85	94	94	82	na	89	na	90
North Western	Donegal	582	97	97	97	93	97	96	85	92	90	95	93
	Sligo/Leitrim	377	97	97	97	95	97	97	87	95	90	95	95
	HSE-NW Total	959	97	97	97	93	97	96	86	93	90	95	94
South Eastern	Carlow/Kilkenny	551	97	97	97	97	97	97	91	95	94	96	97
	South Tipperary	377	98	98	98	100	98	98	92	97	95	98	95
	Waterford	511	95	95	95	93	95	95	89	92	92	92	92
	Wexford	609	96	96	96	97	96	96	91	95	94	96	96
	HSE-SE Total	2048	97	97	97	96	97	96	90	94	94	95	95
Southern	North Cork	376	95	95	94	84	95	93	85	89	88	89	91
	North South Lee	1513	98	98	97	83	98	95	84	85	90	91	92
	West Cork	179	95	95	93	78	95	93	78	83	84	82	91
	Kerry	508	98	98	97	88	98	96	90	92	93	93	93
	HSE-S Total	2576	97	97	96	84	97	95	85	87	90	91	92
Western	Galway	1031	96	96	96	96	96	96	91	na	93	na	93
	Mayo	433	94	94	94	94	94	94	81	na	89	na	89
	Roscommon	243	98	98	98	97	98	97	na	97	na	97	
	HSE-W Total	1707	96	96	96	96	96	96	89	na	93	na	92
Ireland	19198	96	96	96	90	96	95	86	90	91	93	93	

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