

Summary

Children 12 months of age in Quarter 4-2012

- National immunisation uptake rates were 91% for D₃, P₃, T₃, Hib₃ and Polio₃ and 90% for HepB₃, MenC₂ and PCV₂. Compared to Q3-2012, national uptake rates in Q4-2012 for D₃, P₃, T₃, Hib₃ and Polio₃ were unchanged while HepB₃, MenC₂ and PCV₂ decreased by 1%.
- Among the HSE Areas, the uptake rates for D_3 , P_3 , T_3 , Hib₃, Polio₃ and HepB₃ ranged from 88% to 95% and MenC₂ and PCV₂ ranged from 87% to 95%. Two HSE Areas (Midland and North Western Areas) reached the target of \geq 95% for all vaccines.
- Among the Local Health Offices, the target uptake rate of ≥95% was reached in Laois/Offaly, Longford/Westmeath, Sligo/Leitrim and Roscommon for D₃, P₃, T₃, Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂ and in Donegal for MenC₂.

Children 24 months of age in Quarter 4-2012

National uptake rates were 96% for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃, 93% for MMR₁, 92% for PCV₃, 91% for Hib_b and 87% for MenC₃. 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 4 2012. These Areas cover approximately 80% of the national birth cohort. Where data were available, national uptake was 91% for MenC_b and 94% for PCV_b.

Compared to the previous quarter, national uptake rates in Quarter 4 2012 for D_3 , P_3 , T_3 , Hib₃, Polio₃, HepB₃, PCV_b and MMR₁ increased by 1% and Hib_b, MenC₃, MenC_b and PCV₃ increased by 2%.

- The target uptake of \geq 95% was reached for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃ in seven of the eight HSE Areas, for Hib_b and PCV_b in two HSE Areas and for MMR₁ and MenC_b in one HSE Area. The target uptake of \geq 95% was not reached in any HSE Area for MenC₃ or PCV₃.
- The target uptake of \geq 95% was reached in 27 LHOs for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃, 9 for PCV_b, 8 for Hib_b and MMR₁, 4 for MenC_b, 2 for PCV₃ and 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 4-2012.

The immunisation uptake rates presented in this report for children at 12 months of age in Quarter 4-2012 are children born between 01/10/2011 and 31/12/2011 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), 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 4-2012 are children born between 01/10/2011 and 31/12/2011 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 4-2012 cohort of children at 24 months was therefore the tenth 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 4-2012 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 st 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								
	munisation.ie for complete information on the Irish chi	ldhood immunisation schedule and the								
immunisation guide										
BCG DTaP	Bacille Calmette Guerin vaccine Diptheria, Tetanus and acellular Pertussis vaccine									
Hib	Haemophilus influenzae 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 Q4-2012 are presented by HSE Area in table 2. National uptake rates were 91% for D₃, P₃, T₃, Hib₃ and Polio₃ and 90% for HepB₃, PCV₂ and MenC₂. Among the HSE Areas, the uptake rates for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃ ranged from 88% to 95% and MenC₂ and PCV₂ ranged from 87% to 95%. Two HSE Areas (Midland and North Western Areas) reached the target of \geq 95% and six HSE Areas had \geq 90% uptake of these vaccines.

BCG uptake data were available for six of the eight HSE Areas in Q4-2012; these areas cover approximately 52% of the national birth cohort. Where data were available, national uptake was 80% for the BCG vaccination. This is unchanged compared to the previous quarter.

National & HSE Area trends

Figure 1 presents the national uptake rates at 12 months for each vaccine from Q3-2000 to Q4-2012. Compared to Q3-2012, national uptake rates in Q3-2012 for D_3 , P_3 , T_3 , Hib₃ and Polio₃ were unchanged while HepB₃, MenC₂ and PCV₂ decreased by 1%.

In Q4-2012, compared to the previous quarter, uptake rates in the: HSE-Eastern Area decreased by 2% for all vaccines; HSE-Midland Area increased by 4% for all vaccines except BCG which increased by 1%; HSE-Mid Western Area decreased by 1% for all vaccines except PCV₂ which decreased by 2%; HSE-North-Eastern Area decreased by 2% for all vaccines except MenC₂ and PCV₂ which decreased by 1%; HSE-North-Western Area increased by 3% except for BCG which increased by 1%; HSE-South Eastern Area were unchanged except HepB₃, MenC₂ and PCV₂ which decreased by 1%; HSE-Southern Area decreased by 2% for all vaccines except BCG which decreased by 1%; HSE-Western increased by 1% except HepB₃ which increased by 2%.

LHO uptake

The immunisation uptake rates by LHO are shown in appendix 1. D_3 , $MenC_2$ and PCV_2 immunisation uptake rates are mapped by LHO in figures 2-4.

Among the 15 LHOs reporting BCG data, BCG uptake ranged from 93% to 98% with 12 reporting uptake of \geq 95%.

 D_3 , P_3 , T_3 , Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂ uptake rates ranged from 77% (Dublin North West) to 99% (Roscommon).

The target uptake rate of \geq 95% was reached in Laois/Offaly, Longford/Westmeath, Sligo/Leitrim and Roscommon for D₃, P₃, T₃, Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂ and in Donegal for MenC₂.

Nineteen LHOs had $\geq 90\%$ uptake of D₃, P₃, T₃, Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂.

Table 2. Immunisation uptake (%) at 12 months in cohort born 01/10/2011-31/12/2011

	1	. ,							
HSE Area	No. in	BCG	D_3T_3	P ₃	Hib ₃	Polio ₃	HepB ₃	MenC ₂	PCV ₂
	cohort*								
Eastern	6976	na	88	88	88	88	88	88	88
Midland	1124	96	95	95	95	95	95	95	95
Mid Western	1446	97	93	93	93	93	93	92	92
North Eastern	1911	na	91	91	91	91	91	90	90
North Western	927	96	95	95	95	95	95	95	95
South Eastern	1850	96	93	93	93	93	92	92	92
Southern	2515	94	90	90	90	90	89	87	87
Western	1659	5	92	92	92	92	92	91	92
Ireland	18408	80	91	91	91	91	90	90	90

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 9,534

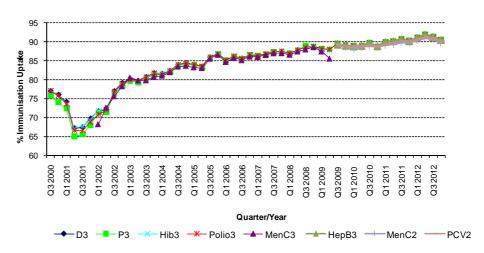


Figure 1. National quarterly immunisation uptake rates at 12 months

Since T_3 uptake identical to D_3 uptake only D_3 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 D_3 , P_3 , T_3 , 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 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 4-2012 were 94.7% in England, 96.5% in Wales, 97.4% in Northern Ireland and 97.4% in Scotland.¹ MenC₂ uptake was 94.0% in England, 96.2% in Wales, 97.3% in Northern Ireland and 97.6% in Scotland.¹ PCV₂ uptake was 94.5% in England, 96.1% in Wales, 97.4% in Northern Ireland and 97.7% in Scotland.¹

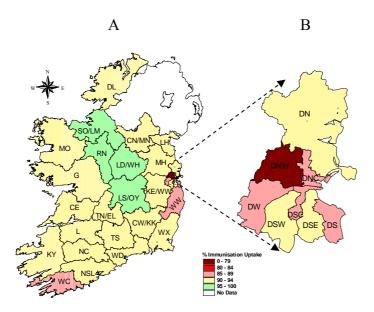


Figure 2. D₃ immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

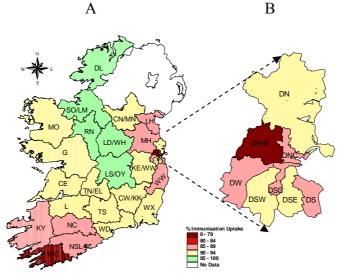


Figure 3. MenC₂ immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

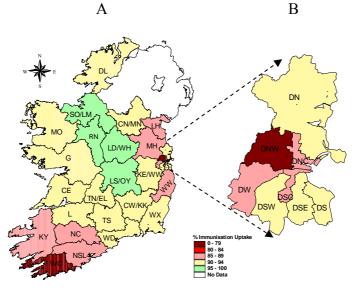


Figure 4. PCV_2 immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

Immunisation uptake at 24 months National and HSE Area uptake

Immunisation uptake rates in children 24 months of age in Q4-2012 are presented (Table 3). National uptake rates were 96% for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃, 93% for MMR₁, 92% for PCV₃, 91% for Hib_b and 87% for MenC₃. Among the HSE Areas the uptake of D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃ ranged from 94-98%, MMR₁ ranged from 91-97%, PCV₃ ranged from 90-94%, Hib_b ranged from 86-98% and MenC₃ ranged from 83-92%. The target uptake of \geq 95% was reached for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃ in seven of the eight HSE Areas, for Hib_b in two HSE Areas and for MMR₁ in one HSE Area. Six of the eight HSE Areas were able to provide uptake data on MenC_b (one dose of MenC at \geq 12 months of age) in Quarter 4 2012. These Areas cover approximately 80% of the national birth cohort. Where data were available, national uptake was 91% for MenC_b and 94% for PCV_b. The target uptake of \geq 95% was reached for PCV_b in two HSE Areas and for MenC_b.

Trends

Figure 5 presents the national uptake rates at 24 months for each vaccine from Q1-1999 to Q4-2012. Compared to the previous quarter, national uptake rates in Q4 increased by 2% for Hib_b, MenC₃, MenC_b and PCV₃ and by 1% for the remaining vaccines.

In Q4-2012, compared to the previous quarter, uptake rates in the: HSE-Eastern Area increased by 4% for MenC₃, 3% for Hib_b and MenC_b and 2% for PCV₃ and MMR₁ and 1% for the remainder of vaccines; HSE-Midland Area increased by 4% for PCV_b and MMR₁, by 2% for MenC_b, by 1% for PCV₃ and by 3% for the remainder; HSE-Mid Western Area increased by 4% for Hib_b and $MenC_3$, increased by 3% for MenC_b, by 1% for PCV₃, PCV_b and MMR₁ and was unchanged for the remainder; HSE-North-Eastern Area decreased by 1% for all vaccines except for PCV₃ which increased by 1% and Hib_b and MMR₁ which were unchanged; HSE-North-Western Area decreased by 1% for all vaccines except PCV_3 and MMR_1 which increased by 1% and $MenC_3$ which was unchanged; HSE-South Eastern Area decreased by 1% except for Hibb and MenCb which increased by 1% and MenC₃ and PCV_b which were unchanged; HSE-Southern Area which increased by 1% for most vaccines except MenC_b, PCV_b and MMR₁ which were unchanged; HSE-Western were unchanged except PCV₃ which increased by 3% and MMR₁ which increased by 2%.

LHO uptake

Immunisation uptake rates in children 24 months of age in Q4-2012 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, Polio₃ and Hib₃ ranged from 91-99%, HepB₃ ranged from 89-98%, MMR₁ ranged from 88-98%, PCV_b ranged from 88-99%, PCV₃ ranged from 85-99%, MenC_b ranged from 79-96%, MenC₃ ranged from 78-97% and Hib_b ranged from 77-98%.

The target uptake of \geq 95% was reached in 27 LHOs for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃, 9 for PCV_b, 8 for Hib_b and MMR₁, 4 for MenC_b, 2 for PCV₃ and in one for MenC₃.

All thirty-one LHOs had \geq 90% uptake of D₃, P₃, T₃, Hib₃ and Polio₃, 30 had \geq 90% uptake of HepB₃, 28 had \geq 90% uptake of MMR₁, 25 had \geq 90% of PCV₃, 23 had \geq 90% uptake of PCV_b, 19 had \geq 90% of Hib_b and MenC_b and ten had \geq 90% uptake of MenC₃.

Table 3. Immunisation uptake (%) at 24 months in cohort born 01/10/2010-31/12/2010

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
Eastern	7017	95	95	90	95	87	90	91	93	93
Midland	1238	98	98	98	98	92	95	94	97	97
Mid Western	1508	96	96	93	96	89	92	92	94	93
North Eastern	2038	94	94	86	94	83	na	91	na	91
North Western	935	96	96	92	95	86	93	90	94	93
South Eastern	2030	96	96	95	96	90	94	93	95	94
Southern	2643	97	96	86	95	87	89	92	93	93
Western	1721	96	96	92	96	83	na	92	na	92
Ireland	19130	96	96	91	96	87	91	92	94	93

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

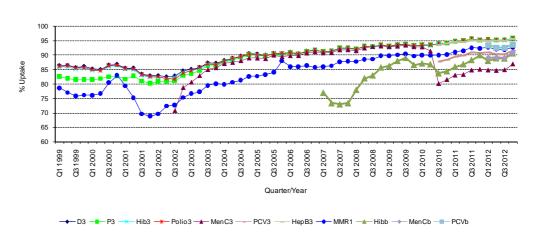


Figure 5. *National quarterly immunisation uptake rates at 24 months*

Dists: The Q4-2005 MMR, figure is based on data from seven of the eight HSE-Areas. The Q1-2006 MMR, 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. The Q1-2006 MMR, 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 six of the eight HSE-Areas. The Q1-2008 the uptake of Hib_b in the HSE-SE was 83% compared to 53% in Q4-2007. The Q3-2008 MenC₅ figure is based on data from six of the eight HSE Areas. The Q1-2009 HSE-Eastern Area D₁_{P₃}, T_a, Polio₃ and MMR, uptake figures exclude those born on the 31/03/2007. The Q2-2009 HSE-Fastern Area Hib_b, uptake figures exclude uptake figures from Dublin North. The Q4-2009 figures are based on data from six 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 Q1-2010 figures are based on data from six of the eight HSE Areas.

Internationally

In Q4-2012, vaccination coverage statistics at 24 months for D_3 , P_3 , T_3 , Hib₃ and Polio₃ were 96.4% in England, 97.7% in Wales, 98.7% in Northern Ireland and 98.3% in Scotland.¹ MenC₂ uptake was 95.6% in England, 96.8% in Wales, 97.2% in Northern Ireland and 96.5% in Scotland.¹ PCV booster was 92.8% in England, 94.9% in Wales, 96.4% in Northern Ireland and 95.7% in Scotland. Hib/MenC booster was 92.8% in England, 94.1% in Wales, 96.5% in Northern Ireland and 96.0% in Scotland.¹ MMR₁ uptake was 92.4% in England, 94.3% in Wales, 95.9% in Northern Ireland and 95.4% in Scotland.¹ Please see HPA report for caveats.¹

Conclusions

In Quarter 4-2012, national uptake rates at 24 months for D₃, P₃, T₃, Hib₃, Polio₃ and HepB₃ exceeded the target of \geq 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 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.

References 1. Quarterly vaccination coverage statistics for children aged up to five years in the UK (COVER programme): October to December 2012 Health Protection Report 2012: 7 (Number 12). Available at: http://www.hpa.org.uk/hpr/archives/2013/hpr1213 cover.pdf (accessed 10/0/2013)

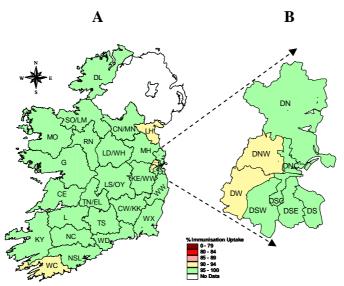


Figure 6. D₃ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

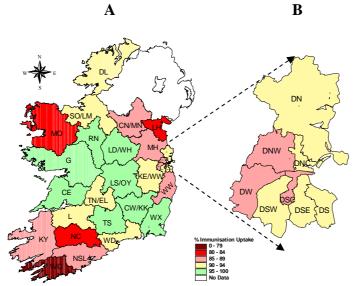


Figure 7. Hib_b immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

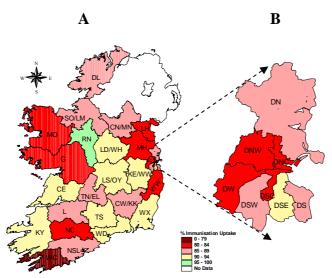


Figure 8. MenC₃ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

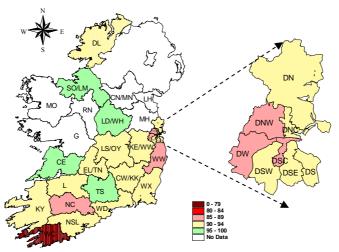


Figure 9. MenC_b immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

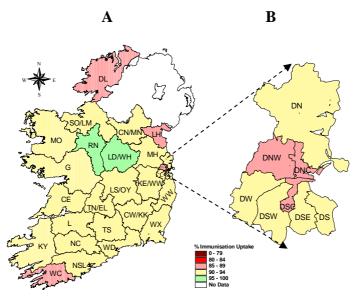


Figure 10. PCV₃ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

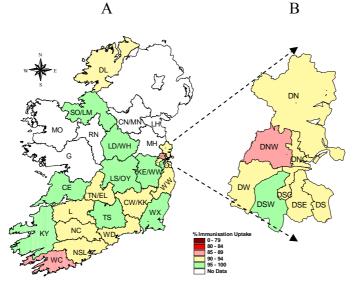


Figure 11. PCV_b immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

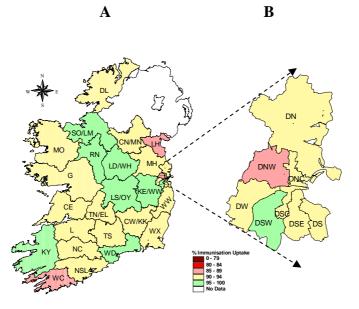


Figure 12. MMR₁ immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 4-2012, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

Appendix 1

	Immunis	ation Up	take at 12 M	onths in	Conort						
	Immunisation Uptake (%)										
		No. in	No. in cohort								
HSE		cohort	for other			_					
Area	LHO/HSE Area	for BCG	vaccines	BCG	D_3T_3	P ₃	Hib ₃	Polio ₃	HepB ₃	MenC ₂	PCV ₂
	Dublin South	na	439	na	89	89	89	89	89	89	90
	Dublin South East	na	439	na	90	90	90	90	90	90	91
0	Dublin South City	na	482	na	88	88	88	88	88	88	88
	Dublin South West	na	717	na	94	94	94	94	94	93	94
	Dublin West	na	781	na	88	88	88	88	88	89	88
Eastern I	Dublin North West	na	1003	na	77	77	77	77	77	77	77
	Dublin North Central	na	531	na	85	85	85	85	85	85	85
	Dublin North	na	1125	na	91	91	91	91	91	90	91
	Kildare/West Wicklow	na	979	na	92	92	92	92	92	92	92
	Wicklow	na	480	na	89	89	89	89	89	88	89
	HSE-E Total	na	6976	na	88	88	88	88	88	88	88
	Laois/Offaly	642	642	96	95	95	95	95	95	95	95
	Longford/Westmeath	482	482	96	96	96	96	96	96	96	96
1	HSE-M Total	1124	1124	96	95	95	95	95	95	95	95
	Clare	434	444	97	93	93	93	93	93	93	93
Mid	Limerick	499	508	98	92	92	92	92	92	91	91
Western -	Tipperary NR/East Limerick	490	494	98	93	93	93	93	93	93	93
ī	HSE-MW Total	1423	1446	97	93	93	93	93	93	92	92
	Cavan/Monaghan	na	497	na	94	94	94	94	94	93	93
	Louth	na	468	na	91	91	91	91	91	89	89
	Meath	na	946	na	90	90	90	90	90	89	89
	HSE-NE Total	na	1911	na	91	91	91	91	91	90	90
			-								
1	Donegal	556	556	96	94	94	94	94	94	95	94
North	Sligo/Leitrim	371	371	96	97	97	97	97	97	95	96
	HSE-NW Total	927	927	96	95	95	95	95	95	95	95
			<u>.</u>								
1	Carlow/Kilkenny	520	520	97	91	91	91	91	91	91	91
	South Tipperary	313	313	97	93	93	93	93	93	93	93
South	Waterford	481	481	94	93	93	93	93	93	93	92
Factorn L	Wexford	536	536	97	93	93	93	93	93	93	92
-	HSE-SE Total	1850	1850	97	93 93	93 93	93 93	93 93	93 92	93 92	93 92
		1030	1050	30	33	33	33	33	52	52	52
	North Cork	375	367	93	90	90	90	90	90	89	89
		375 1493	1469	93	90	90	90 89	90	90 89	89 86	89 87
	North South Lee West Cork	1493	1469	95	90 85	90 85	89 85	90 85	89 85	78	87 78
		493	486	96	92	85 92	92	92	85 91	89	88
	Kerry HSE-S Total	493 2551	486 2515	93 94	92 90	92 90	92 90	92 90	91 89	89 87	88 87
		2001	2010	94	90	90	90	90	69	ō/	ō/
			000		00	00	00	04	00	00	00
	Galway	na	999	na	90	90	90	91	90	90	90
	Мауо	na	439	na	92	92	92	92	92	91	92
	Roscommon	na	221	na	99	99	99	99	99	99	99
	HSE-W Total	1659	1659	5	92	92	92	92	92	91	92
	Ireland	9534	18408	80	91	91	91	91	90	90	90

na=not available
* As the denominator/number in cohort varied slightly according to vaccine, most commonly used number is presented here.
Rease note w hile North Lee and South Lee are two separate LHOs their combined immunisation uptake data are reported here.

Appendix 2

		Immunis	sation unt	ake (%) at	24 month	s of age in	cohort bo	rn 01/10/2	010-31/12	/2010			
		Innitianis	isation uptake (%) at 24 months of age in cohort born 01/10/2010-31/12/2010 Immunisation Uptake (%)										
		No. in	D T		Hib ₃	Hibb	Polio ₃	HanD	ManC	MenCh	PCV ₃	PCVb	MMR ₁
HSE Area	LHO/HSE Area	cohort*	D ₃ T ₃ 95	P ₃ 95	-	-	95	HepB ₃ 95	MenC ₃ 89		90	91	92
	Dublin South Dublin South East	436 452	95 95	95	95 95	91 93	95 95	95 95	92	90 93	90	91 94	92
	Dublin South City	436	97	97	97	93 87	97	95	92 84	87	89	94	94
	Dublin South West	660	99	99	99	93	99	98	89	92	93	92	92
	Dublin West	729	94	94	94	89	94	94	84	89	91	94	93
Eastern	Dublin North West	1050	93	93	93	85	93	93	82	85	87	88	88
	Dublin North Central	469	96	96	96	90	96	96	84	90	88	93	92
	Dublin North	1115	95	95	95	90	95	95	88	90	92	93	93
	Kildare/West Wicklow	1143	97	97	97	94	97	97	90	93	93	96	95
	Wicklow	527	95	95	95	86	95	95	83	86	91	93	92
	HSE-E Total	7017	95	95	95	90	95	95	87	90	91	93	93
	Laois/Offaly	690	98	98	98	98	98	98	91	94	93	96	96
Midland	Longford/Westmeath	548	98	98	98	98	98	98	94	95	96	99	97
	HSE-M Total	1238	98	98	98	98	98	98	92	95	94	97	97
	lo:	10-									<i>c</i> :		
	Clare	437	96	96	96	96	96	96	92	96	94	95	94
Mid	Limerick	513 558	95 96	95 96	95 96	93 91	95 96	95 96	89 87	92 90	92 91	93 94	92 92
Western	Tipperary NR/East Limeric HSE-MW Total	1508	96 96	96	96	91	96	96 96	87 89	90 92	91 92	94 94	92 93
		1506	90	90	90	93	90	90	09	92	92	94	93
	Cavan/Monaghan	547	96	96	96	88	96	96	86	na	93	na	93
North	Louth	546	92	90	90	83	92	92	80	na	88	na	88
Eastern	Meath	945	95	95	95	86	95	95	83	na	91	na	92
24010111	HSE-NE Total	2038	94	94	94	86	94	94	83	na	91	na	91
N. 4	Donegal	601	96	96	96	91	96	95	86	92	89	94	91
North Western	Sligo/Leitrim	334	96	96	95	94	96	95	87	96	91	95	96
western	HSE-NW Total	935	96	96	96	92	96	95	86	93	90	94	93
	Carlow/Kilkenny	578	97	97	97	95	97	97	89	93	92	94	93
South	South Tipperary	340	97	97	97	97	97	97	91	96	94	96	94
Eastern	Waterford	540	96	96	95	93	96	96	91	93	94	94	95
	Wexford	572	96	96	96	97	96	96	91	94	92	95	93
	HSE-SE Total	2030	96	96	96	95	96	96	90	94	93	95	94
	North Cost	400	00	00	07	0.4	00	00	0.4	07	00	00	00
	North Cork	420 1521	98 97	98 97	97 96	84 87	98 97	96 95	84 88	87 90	90 93	92 93	92 94
Southern	North South Lee West Cork	213	97 91	97 91	96 91	87	97 91	95 89	88 78	90 79	93 85	93 88	94 88
Southern	Kerry	489	91	91	91	88	98	96	90	90	94	96	95
	HSE-S Total	2643	90	90	96 96	86	90	90	87	89	94	93	93
		2070	,								~~		
	Galway	1004	95	95	95	95	95	95	80	na	90	na	91
	Mayo	462	97	97	97	84	97	97	83	na	91	na	91
Western	Roscommon	255	99	99	98	98	99	98	97	na	99	na	98
	HSE-W Total	1721	96	96	96	92	96	96	83	na	92	na	92
	Ireland	19130	96	96	96	91	96	96	87	91	92	94	93

na=not available
*As the denominator/number in cohort varied slighly according to vaccine. The most commonly used number is reported here.
Rease 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

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