# **Background**

The national immunisation uptake statistics, based on available data, for Quarter 1 2015 are presented in this report. These immunisation uptake statistics relate to children at 12 (born between 01/01/2014 and 31/03/2014) and 24 (born between 01/01/2013 and 31/03/2013) months of age in Quarter 1-2015. These children were recommended the vaccines outlined in table 1. Please note the immunisation schedule changed in 2015 for children born on or after July 1<sup>st</sup> 2015. Please see the HSE-National Immunisation Office (NIO) website at http://www.hse.ie/eng/health/immunisation/ for current and detailed information on the Irish primary childhood immunisation schedule and also recommended vaccinations for older children and adults.

For children at 12 months of age in Quarter 1 2015, immunisation uptake rates of 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 are reported.

For children at 24 months of age in Quarter 1 2015, immunisation uptake rates of three doses of vaccines against diphtheria  $(D_3)$ , pertussis  $(P_3)$ , tetanus  $(T_3)$ , *Haemophilus influenzae* type b  $(Hib_3)$ , polio  $(Polio_3)$ , hepatitis B  $(HepB_3)$ , meningococcal group C  $(MenC_3)$  and pneumococcal conjugate vaccine  $(PCV_3)$  and one dose of vaccine against measles, mumps and rubella  $(MMR_1)$  are reported. As one dose of vaccine against *Haemophilus influenzae* type b, one dose of meningococcal group C vaccine and one dose of pneumococcal conjugate vaccine given on or after 12 months of age provide protection against these diseases, regardless of the number of previous doses, the uptake rates of one dose of each of these vaccines, on or after 12 months of is also reported  $(Hib_b, MenC_b \text{ and } PCV_b \text{ respectively})$ .

The uptake statistics are also presented in this report by HSE Area and Local Health Office (LHO). While there are 32 LHOs the immunisation uptake data for North Lee and South Lee are reported as a combined figure. The uptake rates presented here were rounded to zero decimal place.

Table 1. Primary childhood immunisation schedule for children born between 01/07/2008 and 30/06/2015

Age	Vaccines
Birth	BCG
2 months	DTaP/Hib/IPV/HepB (6 in 1) + PCV
4 months	DTaP/Hib/IPV/HepB (6 in 1) + MenC
6 months	DTaP/Hib/IPV/HepB (6 in 1) + PCV + MenC
12 months	MMR + PCV
13 months	MenC + Hib

Please note the primary immunisation schedule changed in 2015 for children born on or after 01/07/2015. Please see the HSE-National Immunisation Office (NIO) website at <a href="http://www.hse.ie/eng/health/immunisation/">http://www.hse.ie/eng/health/immunisation/</a> for current and detailed information on the Irish primary childhood immunisation schedule and also recommended vaccinations for older children and adults

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BCG Bacille Calmette Guerin vaccine

DTaP Diphtheria, Tetanus and acellular Pertussis vaccine

HepB Hepatitis B vaccine

Hib Haemophilus influenzae type b vaccine IPV Inactivated Polio Virus vaccine MenC Meningococcal group C vaccine MMR Measles, Mumps and Rubella vaccine PCV Pneumococcal Conjugate Vaccine

# Immunisation uptake among children at 12 months of age in Quarter 1-2015

#### National

- Immunisation uptake rates in children 12 months of age in Q1-2015 are presented by HSE Area in table
  - National immunisation uptake rates were 91% for D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, HepB<sub>3</sub>, PCV<sub>2</sub> and MenC<sub>2</sub>. BCG uptake data were available for 28 LHOs in Q1-2015; these areas cover approximately 90% of the national birth cohort. Where data were available, national uptake was 87% for the BCG vaccination. Resource issues impacted BCG data input onto local databases in the HSE-Eastern Area (Dublin South and Dublin South East) and HSE-Western Area (Roscommon) in Q1 2015.
- Figure 1 presents the national uptake rates at 12 months for each vaccine from Q3-2000 to Q1-2015. Compared to Q4-2014, national uptake rates in Q1-2015 for 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> and PCV<sub>2</sub> decreased by 1%.

#### HSE Area

Among the HSE Areas, the uptake rates for D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and HepB<sub>3</sub> ranged from 90-96% and MenC<sub>2</sub> and PCV<sub>2</sub> ranged from 88% to 96%.
 The HSE Midland Area reached the target of ≥95% for all vaccines, the HSE North Western Area reached the target of >=95% for all vaccines except HepB<sub>3</sub> and MenC<sub>2</sub> and the HSE Western Area reached it for all vaccines except BCG and MenC<sub>2</sub>.

#### Local Health Office (LHO)

- 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.
- The target uptake rate of ≥95% was reached in 11 LHOs for BCG, 5 LHOs for D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, HepB<sub>3</sub> and MenC<sub>2</sub> and in 6 for PCV<sub>2</sub>.

Table 2. Immunisation uptake (%) at 12 months in cohort born 01/01/2014-31/03/2014

HSE Area	No. in	$\mathbf{BCG}^{\dagger}$	$D_3T_3$	$P_3$	Hib <sub>3</sub>	Polio <sub>3</sub>	HepB <sub>3</sub>	MenC <sub>2</sub>	PCV <sub>2</sub>
	cohort*								
Eastern	6251	90	90	90	90	90	90	90	90
Midland	1063	96	96	96	96	96	96	96	96
Mid Western	1279	97	92	92	92	92	92	92	92
North Eastern	1671	na	92	92	92	92	92	93	93
North Western	802	96	95	95	95	95	94	94	95
South Eastern	1660	95	90	90	90	90	90	89	90
Southern	2246	92	91	91	91	91	91	88	88
Western	1489	38	95	95	95	95	95	94	95
Ireland	16461	87	91	91	91	91	91	91	91

na = not available at this time

<sup>†</sup>Number in cohort for BCG is 14,736

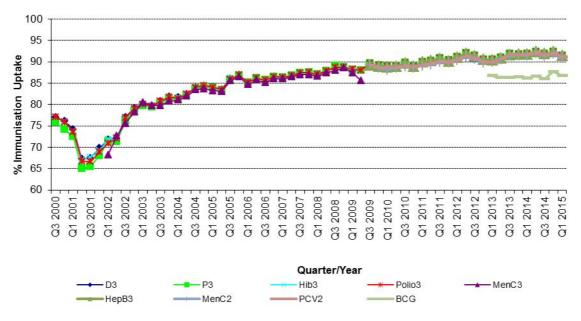
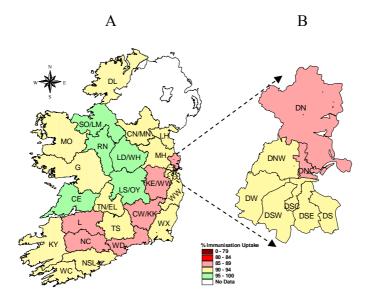


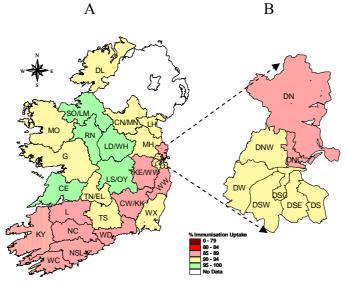
Figure 1. National quarterly immunisation uptake rates at 12 months

Since  $T_3$  uptake is identical to  $D_3$  uptake only  $D_3$  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  $D_3$   $P_3$ ,  $T_3$ , 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. 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. The Q1-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q1-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q1-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q1-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q1-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as one HSE Areas were unable to provide data. The Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Areas in Q1-2010 figures are incomplete as two HSE Ar

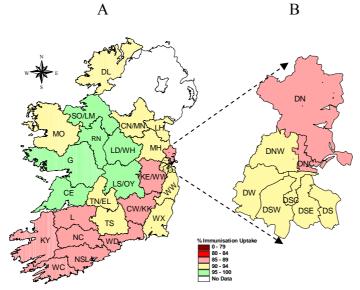
<sup>\*</sup>As the denominator/number in cohort varied slightly according to vaccine, most commonly used number is presented here.



**Figure 2.** D<sub>3</sub> immunisation uptake rates (%) by LHO, in those 12 months of age in Quarter 1-2015, 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 1-2015, 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 1-2015, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

# Immunisation uptake among children 24 months of age in Quarter 1-2015 National

- National uptake rates were 95% for D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and HepB<sub>3</sub>, 93% for MMR<sub>1</sub>, 92% for PCV<sub>3</sub>, 91% for Hib<sub>b</sub> and 87% for MenC<sub>3</sub>. Compared to the previous quarter, national uptake rates in Q1-2015 decreased by one per cent for D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and MenC<sub>3</sub> and were unchanged for Hib<sub>b</sub>, HepB<sub>3</sub>, PCV<sub>3</sub> and MMR<sub>1</sub>.
- The HSE NE was in a position to provide data on MenC<sub>b</sub> (one dose of MenC on or after first birthday and before second birthday) and PCV<sub>b</sub> (one dose of PCV on or after first birthday and before second birthday) for the first time in Q1 2015. In total, seven of the eight HSE Areas were able to provide uptake data on MenC<sub>b</sub> and PCV<sub>b</sub> in Q1-2015. These Areas cover approximately 91% 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>. Compared to the previous quarter MenC<sub>b</sub> declined by 1% while PCV<sub>b</sub> was unchanged.
- Figure 5 presents the national uptake rates at 24 months for each vaccine from Q1-1999 to Q1-2015.

#### **HSE** Area

The target uptake of ≥95% was reached for D<sub>3</sub>, P<sub>3</sub> and T<sub>3</sub> in seven HSE Areas, for Hib<sub>3</sub>, Polio<sub>3</sub> and HepB<sub>3</sub> in six HSE Areas, for MMR<sub>1</sub> in two HSE Areas, in one for Hib<sub>b</sub>, PCV<sub>3</sub> and PCV<sub>b</sub> and in none for MenC<sub>3</sub> and MenC<sub>b</sub>.

## Local Health Office (LHO)

- Immunisation uptake rates in children 24 months of age in Q1-2015 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
- The target uptake of  $\geq$ 95% was reached in 19 LHOs for D<sub>3</sub>, T<sub>3</sub> and P<sub>3</sub>, 18 for Hib<sub>3</sub> and Polio<sub>3</sub> 17 for HepB<sub>3</sub>, 8 for MMR<sub>1</sub>, 7 for PCV<sub>b</sub>, 6 for Hib<sub>b</sub>, 4 for PCV<sub>3</sub> and in one for MenC<sub>3</sub> and MenC<sub>b</sub>.

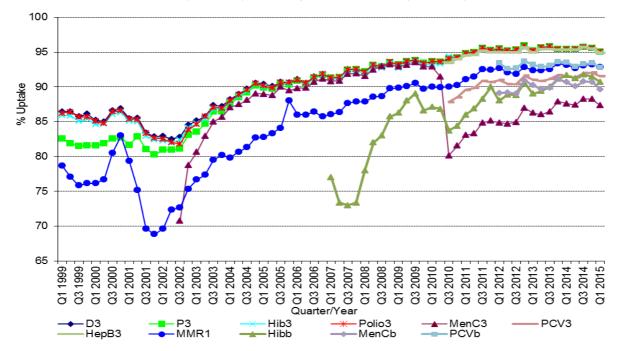


Figure 5. National quarterly immunisation uptake rates at 24 months

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

**Table 3.** *Immunisation uptake (%) at 24 months in cohort born 01/01/2013–31/03/2013* 

HSE Area	No. in Cohort*	D <sub>3</sub> /T <sub>3</sub> / P <sub>3</sub>	Hib <sub>3</sub>	HepB <sub>3</sub>	Polio <sub>3</sub>	Hibb	MenC <sub>3</sub>	MenC <sub>b</sub>	PCV <sub>3</sub>	PCV <sub>b</sub>	$MMR_1$
Eastern	6135	94	94	94	94	88	85	88	90	92	91
Midland	1037	97	97	97	97	97	92	94	94	97	96
Mid-Western	1328	95	94	94	94	90	87	91	91	92	93
North Eastern	1759	95	95	95	95	90	87	89	91	93	92
North Western	827	96	96	95	96	93	85	93	89	94	94
South Eastern	1727	95	95	95	95	93	89	92	92	93	94
Southern	2424	95	95	96	95	91	88	90	92	93	93
Western	1512	98	98	98	98	94	94	na	97	na	95
Ireland	16749	95	95	95	95	91	87	90	92	93	93

<sup>\*</sup> As the denominator/number in cohort varied slightly according to vaccine D3, T3 and P3 cohorts are shown here

#### **Conclusions**

In Quarter 1-2015, national uptake rates at 24 months for  $D_3$ ,  $T_3$ ,  $P_3$ ,  $Hib_3$ ,  $Polio_3$  and  $HepB_3$  reached the target of  $\geq$ 95%. Compared to the previous quarter, national uptake rates at 24 months in Q1-2015 decreased by one per cent for  $D_3$ ,  $T_3$ ,  $P_3$ ,  $Hib_3$ ,  $Polio_3$ ,  $MenC_3$  and  $MenC_b$  and were unchanged for  $Hib_b$ ,  $HepB_3$ ,  $PCV_3$ ,  $PCV_b$  and  $MMR_1$ .

MenC<sub>b</sub> and to a lesser extent 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 Immunisation Co-ordinators, Specialists in Public Health Medicine, Surveillance Scientists and Systems Analysts for their assistance.

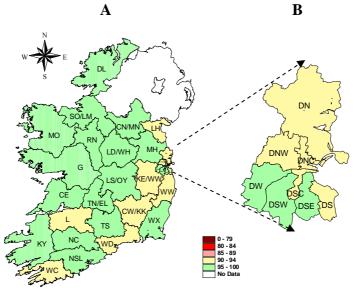
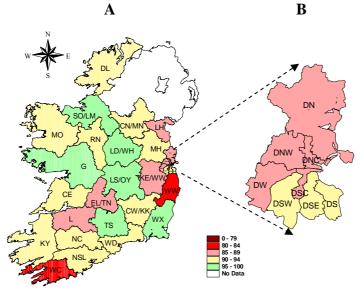
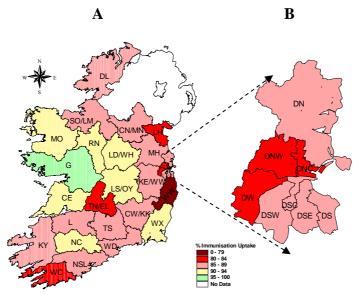


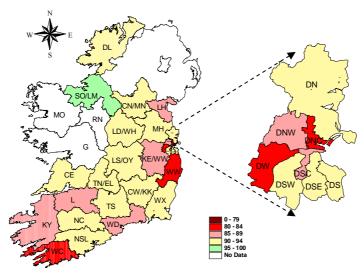
Figure 6.  $D_3$  immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 1-2015, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



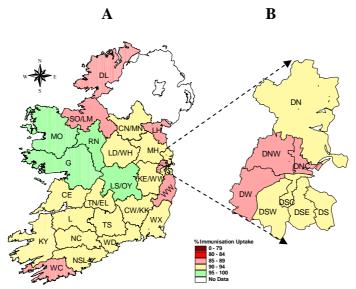
**Figure 7.** Hib<sub>b</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 1-2015, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



**Figure 8.** MenC<sub>3</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 1-2015, 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 1-2015, 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 1-2015, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

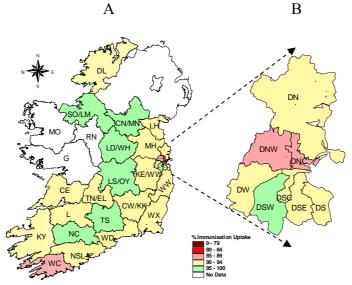
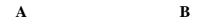


Figure 11.  $PCV_b$  immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 1-2015, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



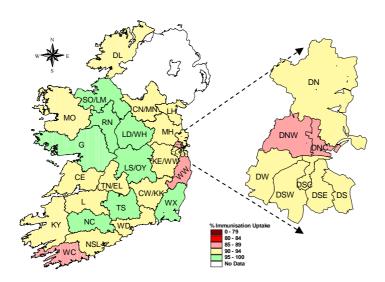


Figure 12.  $MMR_1$  immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 1-2015, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

## Appendix 1

					Cohort I						
	No. in cohort   Immunisation Uptake (%)										
		No. in	for D <sub>3</sub> , T <sub>3&amp;</sub>								
HSE	1110/1105 4	cohort		DOO	пт	В	Hib <sub>3</sub>	Polio <sub>3</sub>	HonD	MenC <sub>2</sub>	PCV <sub>2</sub>
Area	LHO/HSE Area	for BCG	P <sub>3</sub> *	BCG	D <sub>3</sub> T <sub>3</sub>	P <sub>3</sub>	J	J	HepB <sub>3</sub>	_	
	Dublin South	411	411	70	93	93	93	93	93	92	94
	Dublin South East	444	444	70	91	91	91	91	91	90	91
	Dublin South City	420	420	92	91	91	91	91	91	90	90
	Dublin South West	633	633	97	91	91	91	91	91	91	91
	Dublin West	618	618	91	90	90	90	90	90	90	90
Eastern	Dublin North West	867	867	93	92	92	92	92	92	91	91
	Dublin North Central	486	486	90	87	87	87	87	87	86	87
	Dublin North	1010	1010	94	89	89	89	89	89	89	89
	Kildare/West Wicklow	930	930	94	88	88	88	88	88	89	89
	Wicklow	432	432	91	90	90	90	90	90	88	90
	HSE-E Total	6251	6251	90	90	90	90	90	90	90	90
	Laois/Offaly	604	604	96	95	95	95	95	95	95	95
Midland	Longford/Westmeath	459	459	96	97	97	97	97	97	97	97
	HSE-M Total	1063	1063	96	96	96	96	96	96	96	96
	Clare	361	366	97	96	96	96	96	96	95	95
Mid	Limerick	434	505	96	89	89	89	89	89	89	89
Western	Tipperary NR/East Limerick	402	408	97	93	93	93	93	93	94	94
	HSE-MW Total	1197	1279	97	92	92	92	92	92	92	92
North	Cavan/Monaghan	na	458	na	92	92	92	92	92	94	94
	Louth	na	419	na	91	91	91	91	91	93	93
Eastern		na	794	na	91	91	91	91	91	93	92
Lucio	HSE-NE Total	na	1671	na	92	92	92	92	92	93	93
	HOE HE TOWN	Πü	1071	Πü	JL	JL	J 32	J 32	32	30	33
	Donegal	498	498	95	93	93	93	93	93	92	93
North	Sligo/Leitrim	304	304	96	97	97	97	97	97	96	98
Western	HSE-NW Total	802	802	96	95	95	95	95	94	94	95
	HSE-NW TOTAL	002	802	90	95	90	90	93	94	94	93
	0.1. //20	444	144	05	07	0.7	07	07	07	00	00
	Carlow/Kilkenny	444	444	95	87	87	87	87	87	86	86
South	South Tipperary	277	277	98	93	93	93	93	92	92	93
Eastern	Waterford	421	421	94	88	88	88	88	88	88	88
	Wexford	518	518	94	92	92	92	92	92	91	93
	HSE-SE Total	1660	1660	95	90	90	90	90	90	89	90
		1			1	1			1		
	North Cork	323	315	92	89	89	89	89	89	87	86
	North South Lee	1360	1349	93	91	91	91	91	91	88	88
Southern	West Cork	172	167	92	90	90	90	90	90	88	87
	Kerry	419	415	91	92	92	92	92	92	89	87
	HSE-S Total	2274	2246	92	91	91	91	91	91	88	88
	Galway	913	913	11	94	94	94	94	94	94	95
Wast	Mayo	380	380	97	93	93	93	93	93	93	93
Western	Roscommon	196	196	48	98	98	98	98	98	98	98
	HSE-W Total	1489	1489	38	95	95	95	95	95	94	95
										,	

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

na=not available

\* The denominator/number in cohort varied slightly according to vaccine. D3, T3 and P3 cohorts are shown here

Appendix 2

Appenai		unisation u	ptake (%)	at 24 mor	nths of age	in 2015 (i	.e. cohort	born 01/0	1/2013-31/	03/2013)			
			Immunisation Uptake (%)										
		No. in						1					
		cohort for											i
		D <sub>3</sub> & T <sub>3</sub> &											ĺ
HSE Area	LHO/HSE Area	P <sub>3</sub> *	$D_3T_3$	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>
	Dublin South	418	94	94	94	91	94	94	89	91	92	94	93
	Dublin South East	416	95	95	95	91	95	95	89	91	92	93	93
	Dublin South City	404	94	94	94	88	94	94	87	88	90	91	91
	Dublin South West	590	96	96	96	92	96	96	87	92	92	95	94
	Dublin West	608	95	95	95	85	95	95	80	84	88	90	90
Eastern	Dublin North West	869	92	92	92	85	92	92	81	85	86	89	88
	Dublin North Central	468	93	93	93	85	93	93	82	84	87	89	89
	Dublin North	957	93	93	93	89	93	93	88	90	91	93	93
	Kildare/West Wicklow	969	94	94	94	89	94	94	87	89	91	93	92
	Wicklow	436	93	93	93	82	93	93	78	82	88	90	89
	HSE-E Total	6135	94	94	94	88	94	94	85	88	90	92	91
							•		•		•		
	Laois/Offaly	569	98	98	98	98	98	98	93	93	95	97	97
Midland	Longford/Westmeath	468	96	96	96	96	96	96	92	94	94	96	95
	HSE-M Total	1037	97	97	97	97	97	97	92	94	94	97	96
					•				•				
	Clare	415	95	95	94	93	94	94	91	93	92	93	94
	Limerick	431	93	93	93	89	93	93	87	88	90	91	92
Mid Western	Tipperary NR/East Limerick	482	95	95	95	89	95	95	84	91	91	93	93
	HSE-MW Total	1328	95	95	94	90	94	94	87	91	91	92	93
	Cavan/Monaghan	471	96	96	96	91	96	96	88	91	93	95	94
North	Louth	471	94	94	94	87	94	94	83	87	89	91	90
Eastern	Meath	817	95	95	95	90	95	95	88	90	91	93	92
	HSE-NE Total	1759	95	95	95	90	95	95	87	89	91	93	92
	Donegal	492	96	96	96	91	96	94	85	90	89	93	93
North	Sligo/Leitrim	335	96	96	96	97	96	96	86	97	89	96	96
Western	HSE-NW Total	827	96	96	96	93	96	95	85	93	89	94	94
	noe iii rota.	, U.S.		- 55		- 50		- 55			- 00	0.7	
	Carlow/Kilkenny	479	94	94	94	93	94	94	88	92	92	94	94
	South Tipperary	294	98	98	98	95	98	98	88	94	94	96	95
South	Waterford	433	93	93	93	90	93	93	86	88	91	90	91
Eastern	Wexford	521	97	97	97	95	97	96	91	93	94	94	95
	HSE-SE Total	1727	95	95	95	93	95	95	89	92	92	93	94
		, , , , ,	- 55			- 33			33	JZ.	JZ		
	North Cork	372	95	95	95	94	95	96	91	93	94	95	95
	North South Lee	1424	96	96	96	92	96	96	88	90	92	93	93
Southern	West Cork	191	96	91	90	83	96	91	84	83	87	93 85	88
Journern	Kerry	437	96	96	96	92	96	97	89	89	93	94	93
	HSE-S Total	2424	95	95	95	92	95	96	88	90	93	94	93
	IIISE-S TOTAL	2424	30	J 30	30	31	J 30	30	00	30	32	33	33
	Calman	070	00	00	00	0F	98	00	0.5	l	00		96
	Galway	870 420	98	98 98	98	95 92	98	98	95 92	na	98	na	96
Western	Mayo		98		98	_		98	-	na	97	na	-
	Roscommon	222	97	97	97	93	97	97	92	na	96	na	95
	HSE-W Total	1512	98	98	98	94	98	98	94	na	97	na	95
				-									
	Ireland †	16749	95	95	95	91	95	95	87	90	92	93	93

na=not available

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 $<sup>^{\</sup>star}$ The denominator/number in cohort varied slighly according to vaccine.  $D_3$ ,  $T_3$  and  $P_3$  cohorts shown 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

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