## **Background**

The national immunisation uptake statistics, based on available data, for Quarter 3 2015 are presented in this report. These immunisation uptake statistics relate to children at 12 (born between 01/07/2014 and 30/09/2014) and 24 (born between 01/07/2013 and 30/09/2013) months of age in Quarter 3-2015. 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 3 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 3 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. One dose of vaccine against Haemophilus influenzae type b  $(Hib_b)$ , one dose of meningococcal group C vaccine  $(MenC_b)$  and one dose of pneumococcal conjugate vaccine  $(PCV_b)$  given on or after 12 months of age are also reported.

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 3-2015

- - Immunisation uptake rates in children 12 months of age in Q3-2015 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 HepB<sub>3</sub>, PCV<sub>2</sub> and MenC<sub>2</sub>. BCG uptake data were available for 28 LHOs in Q3-2015; these areas cover approximately 90% of the national birth cohort. Where data were available, national uptake was 87% for the BCG vaccination.
  - Figure 1 presents the national uptake rates at 12 months for each vaccine from Q3-2000 to Q3-2015. Compared to Q2-2015, national uptake rates in Q3-2015 for D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub> and Polio<sub>3</sub> decreased by 1% while HepB<sub>3</sub>, MenC<sub>2</sub> and PCV<sub>2</sub> were unchanged.

#### **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 89-95% and MenC<sub>2</sub> and PCV<sub>2</sub> ranged from 86% to 95%. The HSE Western Area reached the target of ≥95% for D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub>, Hib<sub>3</sub>, Polio HepB<sub>3</sub>, PCV<sub>2</sub> 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 7 LHOs for BCG, 5 LHOs for D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub>, Polio<sub>3</sub> and HepB<sub>3</sub> and in 4 LHOs for Hib<sub>3</sub>, MenC<sub>2</sub> and PCV<sub>2</sub>.

Table 2. Immunisation uptake (%) at 12 months in cohort born 01/07/2014–30/09/2014

HSE Area	No. in cohort*	BCG <sup>†</sup>	$D_3T_3$	<b>P</b> <sub>3</sub>	Hib <sub>3</sub>	Polio <sub>3</sub>	HepB <sub>3</sub>	MenC <sub>2</sub>	PCV <sub>2</sub>
Eastern	6595	93	90	90	90	90	90	90	90
Midland	1154	94	94	94	94	94	94	94	94
Mid Western	1336	94	90	90	90	90	90	89	90
North Eastern	1815	na	92	92	92	92	92	92	92
North Western	806	96	94	94	93	94	93	92	93
South Eastern	1908	95	93	93	93	93	93	93	93
Southern	2505	91	89	89	89	89	89	86	86
Western	1547	28	95	95	95	95	95	95	95
Ireland	17666	87	91	91	91	91	91	91	91

na = not available at this time

<sup>†</sup>Number in cohort for BCG is 15,860

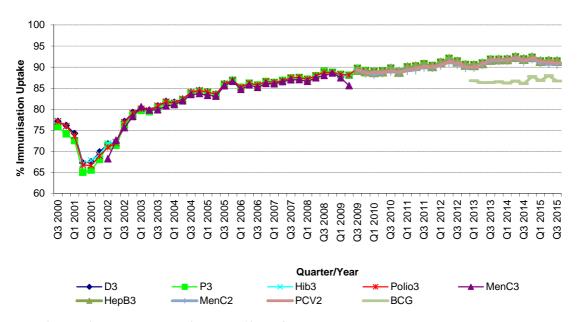
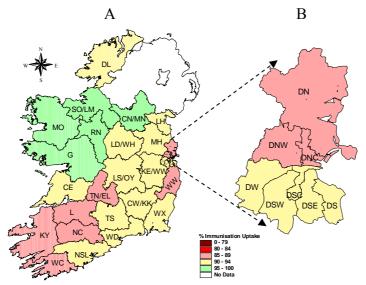


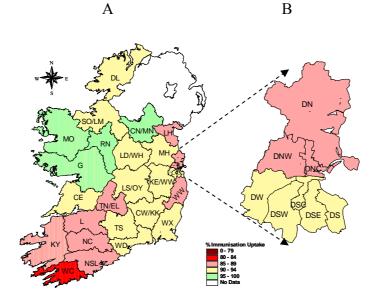
Figure 1. National quarterly immunisation uptake rates at 12 months

Since T<sub>3</sub> uptake is 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. The Q2-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas were unable to provide data. The Q4-2010 figures are incomplete as two HSE Areas in Q4-2010 figures are incomplete as two HSE Areas in Q4-2010 figures are incomplete as two HSE Areas in Q4-2010 figures are incomplete as two HSE Areas in Q4-2010 figures are incomplete as two HSE Areas in Q4-2010 figures are incomplete as two HSE Areas in Q4-2010 figures are incomplete as tw HSE Western Area as a whole. In Q4 2014 BCG data was available for Galway and Roscommon-the BCG denominator for HSE Western Area in Q4 2014 was the sum of the Galway and Roscommon LHOs.

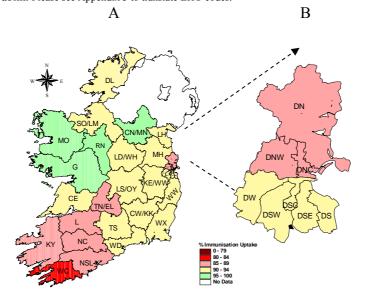
<sup>\*</sup> The denominator/number in cohort varied slightly according to vaccine. D3, T3 and P3 cohorts are shown here.



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

## Immunisation uptake among children 24 months of age in Quarter 3-2015

### 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  $Hib_b$  and 88% for  $MenC_3$  (table 3). Compared to the previous quarter, national uptake rates in Q3-2015 were unchanged (figure 5).
- 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 Q3-2015. These Areas cover approximately 90% 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> and PCV<sub>b</sub> uptake were unchanged (figure 5).
- Figure 5 presents the national uptake rates at 24 months for each vaccine from Q1-1999 to Q3-2015.

#### HSE Area

The target uptake of ≥95% was reached 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> in six HSE Areas, for Hib<sub>b</sub> and PCV<sub>b</sub> in three HSE Areas, MMR<sub>1</sub> in two HSE Areas, for MenC<sub>3</sub> and PCV<sub>3</sub> in one and in none for MenC<sub>b</sub>

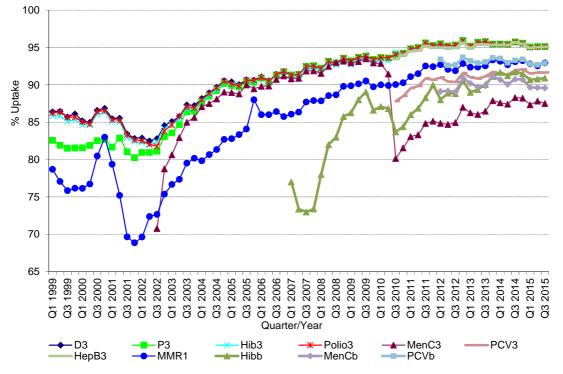
#### Local Health Office (LHO)

- Immunisation uptake rates in children 24 months of age in Q3-2015 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
- The target uptake of ≥95% was reached in 20 LHOs for D<sub>3</sub>, T<sub>3</sub>, P<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> 19 for HepB<sub>3</sub> 11 for MMR<sub>1</sub>, 8 for Hib<sub>b</sub> and PCV<sub>b</sub>, 4 for PCV<sub>3</sub>, in two for MenC<sub>3</sub> and one for MenC<sub>b</sub>.

Table 3. Immunisation uptake (%) at 24 months in cohort born 01/07/2013–30/09/2013

HSE Area	No. in Cohort*	D <sub>3</sub> /T <sub>3</sub>	<b>P</b> <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	6705	94	94	94	94	94	88	85	88	90	92	91
Midland	1164	96	96	96	96	96	96	90	93	94	96	96
Mid-Western	1373	93	93	93	93	93	88	85	88	89	91	90
North Eastern	1984	96	96	96	96	96	92	90	92	93	95	94
North Western	945	96	96	96	95	96	91	85	90	90	94	93
South Eastern	1935	96	96	96	95	96	95	89	92	93	95	94
Southern	2503	95	96	95	96	96	91	87	89	91	92	93
Western	1708	98	98	98	98	98	95	95	na	97	na	96
Ireland	18317	95	95	95	95	95	91	88	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



**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, Q2-2008 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<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>, T<sub>3</sub>, Polio, 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 Q4-2009 Hib, figures are based on data from six of the eight HSE Areas. MenC<sub>b</sub> and PCV<sub>b</sub> data are only available for 6 of the 8 HSE Areas from Q1 2012 to Q4 2014 and for 7 HSE Areas since Q1 2015

### **Conclusions**

In Quarter 3-2015, 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 Q3-2015 were unchanged.

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 all those involved in childhood immunisation including the General Practioners, Practice Nurses, HSE Areas, Public Health Nurses, Immunisation Co-ordinators, Specialists in Public Health Medicine, Surveillance Scientists and Systems Analysts for their assistance.

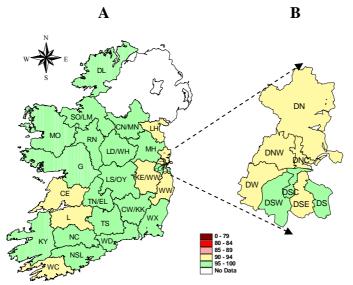


Figure 6.  $D_3$  immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2015, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.

B

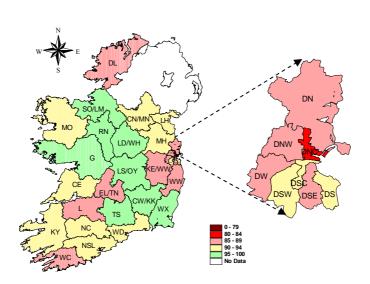
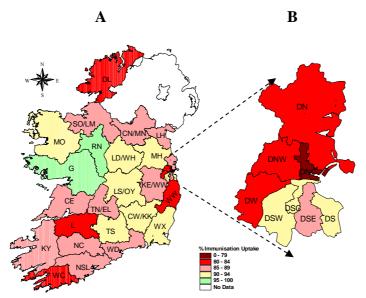
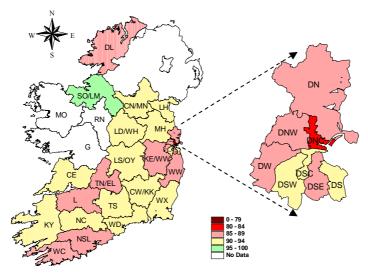


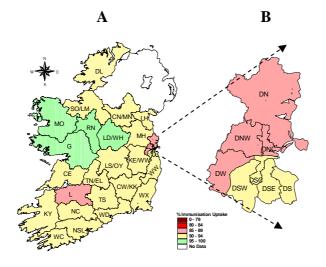
Figure 7.  $Hib_b$  immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2015, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.



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

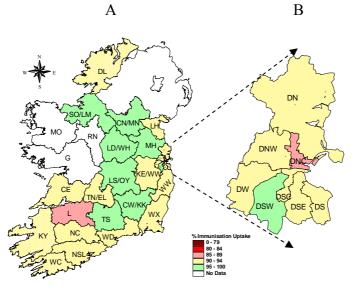
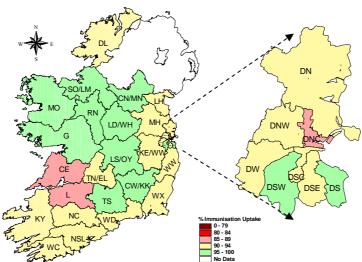


Figure 11.  $PCV_b$  immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2015, in (A) Ireland and (B) Dublin. Please see Appendix 3 to translate LHO codes.





**Figure 12.** MMR<sub>1</sub> immunisation uptake rates (%) by LHO, in those 24 months of age in Quarter 3-2015, 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	Cohort	Born 01/	07/2014-3	30/09/201	4		
	Immunisation Uptake (%)										
HSE		No. in cohort	No. in cohort for D <sub>3</sub> ,T <sub>3&amp;</sub>								
Area	LHO/HSE Area	for BCG	P3*	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>
	Dublin South	443	443	88	90	90	90	90	90	90	91
	Dublin South East	445	445	90	94	94	94	94	94	94	94
	Dublin South City	483	483	94	94	94	94	94	94	94	94
	Dublin South West	619	619	96	92	92	92	92	92	92	92
	Dublin West	729	729	91	91	91	91	91	91	91	91
Eastern	Dublin North West	961	961	92	88	88	88	88	88	87	88
	Dublin North Central	490	490	91	86	86	86	86	86	86	86
	Dublin North	1009	1009	93	88	88	88	88	88	88	89
	Kildare/West Wicklow	984	984	94	92	92	92	92	92	92	92
	Wicklow	432	432	94	89	89	89	89	89	89	91
	HSE-E Total	6595	6595	93	90	90	90	90	90	90	90
	Laois/Offaly	635	635	96	94	94	94	94	94	94	94
Midland	Longford/Westmeath	519	519	92	94	94	94	94	94	94	94
midiana	HSE-M Total	1154	1154	94	94	94	94	94	94	94	94
			1101								• •
	Clare	416	411	93	92	92	92	92	92	91	91
Mid	Limerick	408	449	96	89	89	89	89	89	88	88
Western	Tipperary NR/East Limerick	492	476	92	89	89	89	89	89	89	89
	HSE-MW Total	1316	1336	94	90	90	90	90	90	89	90
	Cavan/Monaghan	na	491	na	95	95	95	95	95	95	95
North	Louth	na	497	na	90	90	90	90	90	89	90
Eastern	Meath	na	827	na	92	92	92	92	92	92	92
	HSE-NE Total	na	1815	na	92	92	92	92	92	92	92
	Donegal	486	486	95	93	93	93	93	92	91	93
North	Sligo/Leitrim	320	320	97	95	95	94	95	95	94	94
Western	HSE-NW Total	806	806	96	94	94	93	94	93	92	93
	1102 1111 10141	000	000	00		0-7			- 00	<u> </u>	
	Carlow/Kilkenny	558	558	95	92	92	92	92	92	91	91
	South Tipperary	329	329	97	94	94	94	94	94	94	94
South	Waterford	498	498	93	94	94	94	94	94	93	92
Eastern	Wexford	523	523	94	93	93	93	93	93	93	94
	HSE-SE Total	1908	1908	95	93	93	93	93	93	93	93
	North Cork	339	332	92	87	87	87	87	87	85	85
	North South Lee	1530	1516	92	90	90	90	90	90	86	87
Southern	West Cork	178	176	90	85	85	85	85	85	81	82
	Kerry	487	481	90	89	89	89	89	89	85	85
	HSE-S Total	2534	2505	91	89	89	89	89	89	86	86
	Galway	902	902	10	95	95	95	95	95	95	95
	Mayo	420	420	53	95	95	95	95	95	96	95
Western	Roscommon	225	225	52	96	96	96	96	96	96	97
	HSE-W Total	1547	1547	28	95	95	95	95	95	95	95
	1	.547	.041	-0	. 33	1 33		1 30			30
	Ireland	15860	17666	87	91	91	91	91	91	91	91
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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

Appendix		Immunisati	on uptak	e (%) at 24	months o	f age in c	ohort bori	n 01/07/20	13-30/09/2	013			
			No. in Immunisation Uptake (%)										
		cohort for											
		D <sub>3</sub> & T <sub>3</sub> &											
UCE Area	LHO/HSE Area	P <sub>3</sub> *	$D_3T_3$	P <sub>3</sub>	Hib <sub>3</sub>	Hibb	Polio <sub>3</sub>	HepB <sub>3</sub>	MenC <sub>3</sub>	MenC <sub>b</sub>	PCV <sub>3</sub>	PCV <sub>b</sub>	MMR₁
HSE Area	Dublin South	435	95	95	95	93	95	95	90	93	93	94	95
	Dublin South East	410	94	94	94	88	94	94	86	88	91	92	91
	Dublin South City	427	96	96	96	91	96	96	90	91	93	94	94
	Dublin South West	629	97	97	97	94	97	97	91	93	94	96	96
	Dublin West	729	93	93	93	85	93	93	82	85	88	90	90
Eastern	Dublin North West	946	94	94	94	86	94	94	83	86	89	91	90
	Dublin North Central	492	92	92	92	82	92	92	78	81	87	89	88
	Dublin North	1135	93	93	93	88	93	93	84	87	89	90	90
	Kildare/West Wicklow	1036	94	94	94	89	94	94	87	89	91	92	92
	Wicklow	466	94	94	94	86	94	94	81	85	90	92	91
	HSE-E Total	6705	94	94	94	88	94	94	85	88	90	92	91
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Mi alla and	Laois/Offaly	668	96	96	96	96	96	96	90	93	94	96	96
Midland	Longford/Westmeath	496	96 <b>96</b>	96	96 <b>96</b>	96 <b>96</b>	96 <b>96</b>	96 <b>96</b>	91 <b>90</b>	94 <b>93</b>	95 <b>94</b>	96 <b>96</b>	96 <b>96</b>
	HSE-M Total	1164	90	96	90	90	90	90	90	93	94	90	90
	Clare	383	92	92	92	91	92	92	89	91	90	92	89
	Limerick	495	92	92	92	86	92	92	82	85	87	89	88
Mid Western	Tipperary NR/East Limerick	495	95	95	95	89	95	95	85	88	91	93	93
	HSE-MW Total	1373	93	93	93	88	93	93	85	88	89	91	90
		1010											
	Cavan/Monaghan	552	97	97	97	92	97	97	89	92	93	95	95
North	Louth	526	94	94	94	91	94	94	89	92	91	93	92
Eastern	Meath	906	96	96	96	92	96	96	90	92	94	95	94
	HSE-NE Total	1984	96	96	96	92	96	96	90	92	93	95	94
North	Donegal	581	96	96	96	88	96	94	83	87	91	93	91
Western	Sligo/Leitrim	364	97	97	97	95	97	97	87	96	90	95	96
	HSE-NW Total	945	96	96	96	91	96	95	85	90	90	94	93
	T												
	Carlow/Kilkenny	514	96	96	96	96	96	96	90	93	94	96	95
South	South Tipperary	372	96	96 05	96 05	96 91	96 05	96 05	90 88	93	94	96 93	95 92
Eastern	Waterford Wexford	480 569	95 95	95 95	95 95	91 96	95 96	95 95	90	90 93	92 93	93	92
	HSE-SE Total	1935	95 <b>96</b>	96	96	95	96	95 95	89 89	93	93	95	94
	INC. OL TOTAL	1333	30	J0	- 30	33	J 30	- 33	03	JZ	33	33	J-4
	North Cork	375	97	97	97	94	97	97	88	91	91	94	94
	North South Lee	1496	95	95	95	90	95	95	87	89	91	92	93
	West Cork	179	94	94	94	89	94	94	84	89	90	92	94
	Kerry	453	96	96	96	92	96	96	87	90	90	91	94
	HSE-S Total	2503	95	96	95	91	96	96	87	89	91	92	93
	Galway	1001	97	97	97	95	97	97	95	na	96	na	96
Western	Мауо	463	98	98	98	93	98	98	94	na	98	na	95
71030111	Roscommon	244	98	98	98	98	98	98	98	na	98	na	98
	HSE-W Total	1708	98	98	98	95	98	98	95	na	97	na	96
	Ireland †	18317	95	95	95	91	95	95	88	90	92	93	93

na=not available

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<sup>\*</sup>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