



Immunisation uptake at 12 and 24 months of age

Summary

Among children at 12 months of age in 2015 uptake of: D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂ was 91%

Among children at 24 months of age in 2015 uptake of: D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃ reached the target of 95% MMR₁ was 93% PCV₃ was 92% Hib_b was 91% MenC₃ was 88%

Introduction

In 2015, the HSE Areas provided HPSC with quarterly immunisation uptake data for their Area and for each of the Local Health Offices (LHOs) in their Area. HPSC collated these data and quarterly reports were produced which are available on the HPSC website. The annual immunisation uptake rates presented here represent the collation of the 2015 quarterly data. The proportion of children who completed the recommended primary childhood immunisation schedule by 12 months (born between 01/01/2014 and 31/12/2014) and 24 months (born between 01/01/2013 and 31/12/2013) of age in 2015 are reported.

Children who were 12 and 24 months of age in 2015 were recommended one dose of vaccine against tuberculosis (BCG vaccine) at birth or by one month of age; three doses of vaccines against diphtheria (D₃), tetanus (T₃), pertussis (P₃), *Haemophilus influenzae* type b (Hib₃), polio (Polio₃) and Hepatitis B (HepB₃) with one dose of each recommended at two, four and six months of age; three doses of pneumococcal conjugate vaccine (PCV₃) recommended at two, six and 12 months of age and three doses of meningococcal group C (MenC₃) vaccine recommended at four, six and 13 months of age (table 1). Also at 12 months of age a dose of MMR (MMR₁) was recommended and at 13 months a dose of Hib (Hib_b) was recommended (table 1). A new primary childhood immunisation schedule was introduced in 2015 for babies born on or after July 1st 2015. Further vaccinations are recommended for older children and adults. Please see the HSE-National Immunisation Office 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.

In children at 12 months of age in 2015 (born between 01/01/2014 and 31/12/2014) uptake of BCG, D₃, T₃, P₃, Hib₃, Polio₃, HepB₃ and two doses of PCV (PCV₂) and MenC (MenC₂) were measured. In children at 24 months of age in 2015 (born between 01/01/2013 and 31/12/2013) uptake of D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, MenC₃, PCV₃, MMR₁, Hib_b, one dose of vaccine against meningococcal group C (MenC_b) on or after twelve months of age and one dose of vaccine against pneumococcal conjugate vaccine (PCV_b) on or after twelve months of age were measured.

The immunisation uptake rates are reported here by HSE Area and LHO. The uptake rates presented here were rounded to zero decimal place. While there are 32 LHOs the immunisation uptake rates for the LHOs of North Lee and South Lee are reported as a combined figure.

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

5 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 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

BCG Bacille Calmette Guerin vaccine

DTaP Diphtheria, Tetanus and acellular Pertussis vaccine

HepB Hepatitis B vaccine

Hib Haemophilus influenzae type b vaccine

IPVInactivated Polio Virus vaccineMenCMeningococcal group C vaccineMMRMeasles, Mumps and Rubella vaccinePCVPneumococcal Conjugate Vaccine

Caveats to data

BCG uptake data at 12 months of age has been incomplete since BCG reporting to HPSC began in Quarter 3 2003. This has occurred due to differences in implementation of a neonatal BCG programme across the HSE Areas as well as difficulties in providing these data to the HPSC where the programme was implemented. Prior to the establishment of the HSE each former health board determined their own BCG vaccination policy and some health boards (Western and parts of the Southern Health Boards) stopped routine neonatal BCG vaccination but provided BCG vaccination for adolescents or high risk groups. The neonatal programme has now been routinely implemented for all neonates in most, but not all, HSE Areas. Additionally more complete data on neonatal BCG vaccination is now available. However, in the HSE NE, where a neonatal programme is implemented, data is not currently available for reporting. In the HSE W the neonatal programme is not routinely or comprehensively implemented in all LHOs. Therefore, data provided for the HSE W reflects BCG vaccination data for just a small proportion of all babies born in this Area. Galway and Roscommon BCG LHO data became available for reporting for the first time in Quarter 4 2014. Mayo LHO BCG data was not available for reporting purposes prior to 2015. The numbers vaccinated with BCG in Mayo were not included in the HSE W BCG figures prior to 2015. National data for 2015 are presented in this report and compared to 2014 data. The available national BCG cohort data may be around 90% of the national birth cohort in 2015 and 89% in 2014 (these figures are estimates only).

As uptake of MenC₃ was low since Q3 2010 and as those over 12 months and less than 12 years of age need only one dose of MenC and those aged 12-23 months need only one dose of PCV, data on MenC_b (one dose of MenC on or after first birthday and before second birthday) and PCV_b (one dose of PCV on or after first birthday and before second birthday) were requested in 2012 for the first time. The MenC_b and PCV_b data were available for only six of the eight HSE Areas from Quarter 1 2012 to Quarter 4 2014 and for seven HSE Areas since Quarter 1 2015. The available national cohort data may be around 91% of the national birth cohort in 2015 and 81% in 2014 (these figures are estimates only).

Immunisation uptake rates at 12 months

Ninety-one per cent of children, at 12 months of age in 2015, received D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂ (table 2). Compared with 2014, the uptake rates for these vaccines decreased by one per cent in 2015.

The available 2015 BCG cohort data may be around 90% (estimate only) of the national birth cohort; based on these data BCG uptake was 86% (table 2). In 2014, BCG cohort data may be around 89% (estimate only) of the national birth cohort; based on these data BCG uptake in 2014 was 87%.

Among the HSE Areas, uptake rates for D_3 , T_3 , P_3 , Hib_3 , $Polio_3$ and $HepB_3$ ranged from 90% to 95% and $MenC_2$ and PCV_2 ranged from 87% to 95% (table 2). The target uptake of \geq 95% was reached in the HSE M and HSE W for D_3 , T_3 , P_3 , Hib_3 , $Polio_3$, $HepB_3$, $MenC_2$ and PCV_2 (table 2). The target uptake of \geq 95% was reached in the HSE M and HSE SE for BCG (table 2).

Among the LHOs, uptake rates for D_3 , T_3 , P_3 , Hib_3 , $Polio_3$ and $HepB_3$ ranged from 86% to 97% and $MenC_2$ and PCV_2 ranged from 83% to 97% (table 2). The target uptake of \geq 95% was reached in Longford/Westmeath, Galway, Mayo and Roscommon for D_3 , T_3 , P_3 , Hib_3 , $Polio_3$, $HepB_3$ and PCV_2 with the highest uptake (97%) of these vaccines in Roscommon (table 2). The target uptake of \geq 95% was reached for BCG in six LHOs reporting data (table 2).

Table 2. Immunisation uptake (%) at 12 months of age in 2015 (i.e. cohort born 01/01/2014-31/12/2014) by LHO and HSE Area

	manager aptane (70) at 12 m	uptake (%) at 12 months of age in 2015 (i.e. cohort born 01/01/2014-31/12/2014) by LHO and HSE Number in Number in Immunisation Uptake (%)							
	Local Health Office/	cohort for	cohort for D ₃ ,					lake (70)	
HSE Area	HSE Area	BCG	T ₃ & P ₃ *	BCG	D ₃	Hib ₃	HepB ₃	MenC ₂	PCV ₂
	Dublin South	1684	1684	86	91	91	91	90	92
	Dublin South East	1748	1748	86	93	93	93	92	93
	Dublin South City	1732	1732	93	92	92	92	91	92
	Dublin South West	2504	2504	97	92	92	92	91	92
	Dublin West	2678	2678	86	90	90	90	90	90
HSE E	Dublin North West	3649	3649	92	89	89	89	89	89
	Dublin North Central	1916	1916	91	86	86	86	86	86
	Dublin North	4084	4084	92	88	88	88	88	88
	Kildare/West Wicklow	3821	3821	94	91	91	91	91	91
	Wicklow	1753	1753	92	91	91	91	90	91
	HSE E Total	25569	25569	91	90	90	90	90	90
	Laois/Offaly	2550	2550	95	94	94	94	94	94
HSE M	Longford/Westmeath	1959	1959	94	95	95	95	95	95
	HSE M Total	4509	4509	95	95	95	95	95	95
	Clare	1475	1472	93	93	93	93	92	93
HSE MW	Limerick	1689	1892	96	88	88	88	88	88
	Tipperary NR/East Limerick	1807	1762	93	92	92	92	92	92
	HSE MW Total	4971	5126	94	91	91	91	91	91
HSE NE	Cavan/Monaghan	na	1876	na	93	93	93	94	94
	Louth	na	1810	na	91	91	91	91	92
	Meath	na	3169	na	91	91	91	91	91
	HSE NE Total	na	6855	na	91	91	91	92	92
	Donegal	1964	1964	94	92	92	91	91	92
HSE NW	Sligo/Leitrim	1272	1272	95	96	95	95	94	96
	HSE NW Total	3236	3236	94	94	94	93	92	94
	Carlow/Kilkenny	1991	1991	95	90	90	90	89	89
	South Tipperary	1228	1228	97	94	94	94	93	94
HSE SE	Waterford	1807	1807	94	92	92	92	91	91
	Wexford	2098	2098	94	93	93	93	92	93
	HSE SE Total	7124	7124	95	92	92	92	91	91
HSE S	North Cork	1349	1327	92	89	89	89	87	87
	North South Lee	5720	5647	92	90	90	90	87	87
	West Cork	681	674	91	87	87	87	83	83
	Kerry	1788	1772	90	91	91	91	87	87
	HSE S Total	9538	9420	92	90	90	90	87	87
	Galway	3588	3588	10	95	95	95	95	95
HSE W	Mayo	1642	1642	68	95	95	95	95	95
	Roscommon	855	855	53	97	97	97	97	97
	HSE W Total	6085	6085	32	95	95	95	95	95
Ireland		61032	67924	86	91	91	91	91	91

na=not available

Please note while North Lee and South Lee are two separate Local Health Offices their combined immunisation uptake data are reported here

^{*} As the denominator/number in cohort varied slightly according to vaccine the D_3 , T_3 and P_3 cohorts are shown here

Since T_3 , P_3 and $Polio_3$ uptake identical to D_3 uptake only D_3 uptake figures are presented

Immunisation uptake rates at 24 months

National annual immunisation uptake rates, in children at 24 months of age in 2015, were 95% for D_3 , T_3 , P_3 , Hib_3 , $Polio_3$ and $HepB_3$, 93% for MMR_1 , 92% for PCV_3 , 91% for Hib_b and 88% for $MenC_3$ (table 3). This is the fifth year national annual uptake rates reached the target of \geq 95% for D_3 , T_3 , P_3 , Hib_3 , $Polio_3$ and $HepB_3$. Compared with 2014, the uptake rates for D_3 , T_3 , P_3 , Hib_3 , $Polio_3$ and Hib_b decreased by one percent while $HepB_3$, $MenC_3$, PCV_3 and MMR_1 were unchanged (figure 1).

Seven of the eight HSE Areas were able to provide uptake data on $MenC_b$ (one dose of MenC on or after first birthday and before second birthday) and PCV_b (one dose of PCV on or after first birthday and before second birthday) in 2015. The available data may be around 91% (estimate only) of the national birth cohort. Where data were available, national uptake was 90% for $MenC_b$ and 93% for PCV_b at 24 months of age (table 3).

Among the HSE Areas uptake rates for D_3 , T_3 , P_3 , Hib_3 , $Polio_3$ and $HepB_3$ ranged from 94% to 98%, MMR_1 ranged from 91% to 96%, PCV_3 ranged from 90% to 97%, Hib_b ranged from 88% to 97% and $MenC_3$ ranged from 86% to 94% and (table 3). Among the seven Areas in a position to provide data PCV_b uptake ranged from 92% to 96% and $MenC_b$ uptake ranged from 88% to 93% (table 3).

The target uptake of \geq 95% was reached in six HSE Areas during 2015 for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃, in two HSE Areas for Hib_b and MMR₁, in one for PCV₃ and PCV_b and in none for MenC₃ and MenC_b (table 3).

 D_3 , Hib_b , $MenC_3$ and MMR_1 uptake rates are mapped by LHO in figure 2. Among the LHOs the uptake rates ranged from 92% to 98% for D_3 , D_3 ,

The target uptake of \geq 95% was reached in 21 LHOs for D₃, T₃, P₃, Hib₃ and Polio₃, 20 for HepB₃, in nine LHOs for MMR₁, in seven for Hib_b and PCV_b, in five LHOs for PCV₃, in two LHOs for MenC₃ and in one LHO for MenC_b (table 3). Galway and Roscommon were the only LHOs to reach the target of \geq 95% for D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, Hib_b, MenC₃, PCV₃ and MMR₁ for children at 24 months (table 3).

Table 3. Immunisation uptake (%) at 24 months of age in 2015 (i.e. cohort born 01/01/2013-31/12/2013) by LHO and HSE Area

	5. IIIIIIIuiiisution uptuke ($\%$) at 24 months	hs of age in 2015 (i.e. cohort born 01/01/2013-31/12/2013) by LHO and HSE Area Immunisation Uptake (%)					eu .				
							iiii		rune (/0)			
		Number in										
		cohort for										
	Local Health	D ₃ , T ₃ & P ₃										
HSE Area	Office/HSE Area	*	D ₃	P_3	Hib₃	Hib _b	HepB ₃	MenC₃	MenC _b	PCV ₃	PCV _b	MMR ₁
	Dublin South	1731	95	95	95	92	95	90	92	93	94	94
	Dublin South East	1635	95	95	95	90	95	88	90	91	93	92
	Dublin South City	1726	95	95	95	90	95	89	90	91	92	92
	Dublin South West	2438	97	97	97	93	97	89	92	93	95	95
	Dublin West	2725	95	95	95	87	95	83	86	89	91	91
HSE E	Dublin North West	3717	93	93	93	86	93	83	86	88	90	90
	Dublin North Central	1892	92	92	92	84	92	81	83	87	89	89
	Dublin North	4202	93	93	93	89	93	86	89	90	91	91
	Kildare/West Wicklow	3860	94	94	94	90	94	88	90	92	93	93
	Wicklow	1790	94	94	94	84	94	80	84	89	91	90
	HSE E Total	25716	94	94	94	88	94	86	88	90	92	92
	Laois/Offaly	2452	97	97	97	97	97	91	93	94	96	96
HSE M	Longford/Westmeath	1937	97	97	97	97	97	92	94	95	96	96
	HSE M Total	4389	97	97	97	97	97	91	93	94	96	96
	Clare	1561	94	94	93	92	93	90	93	91	92	92
HSE MW	Limerick	1842	93	93	93	88	93	85	87	89	90	90
	Tipperary NR/East	1850	95	95	95	89	95	86	90	90	93	92
	Limerick											
	HSE MW Total	5253	94	94	94	90	94	87	90	90	92	91
	Cavan/Monaghan	2028	97	97	97	93	97	92	93	95	96	95
LICE NE	Louth	1966	94	94	94	90	94	89	90	92	0.2	92
LICE NE	Loudii	1300	.				J .			32	93) J_
HSE NE	Meath	3348	96	96	96	91	96	91	91	94	93	93
HSE NE				96 96	96 96	91 91						
HSE NE	Meath	3348	96				96	91	91	94	94	93
HSE NE	Meath HSE NE Total	3348 7342	96 96	96	96	91	96 96	91 90	91 91	94 93	94 94	93 93
	Meath HSE NE Total Donegal	3348 7342 2093	96 96 96	96 96	96 96	91 89	96 96 94	91 90 84	91 91 89	94 93 89	94 94 93	93 93 91
	Meath HSE NE Total Donegal Sligo/Leitrim	3348 7342 2093 1381	96 96 96 97	96 96 97	96 96 97	91 89 96	96 96 94 97	91 90 84 89	91 91 89 97	94 93 89 91	94 94 93 96	93 93 91 96
	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total	3348 7342 2093 1381 3474	96 96 97 96	96 96 97 97	96 96 97 96	91 89 96 92	96 96 94 97 95	91 90 84 89 86	91 91 89 97 92	94 93 89 91 90	94 94 93 96 94	93 93 91 96 93
	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny	3348 7342 2093 1381 3474 1978	96 96 97 96 95	96 96 97 97 95	96 96 97 96 95	91 89 96 92 94	96 96 94 97 95 95	91 90 84 89 86 88	91 91 89 97 92	94 93 89 91 90	94 94 93 96 94	93 93 91 96 93
HSE NW	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary	3348 7342 2093 1381 3474 1978 1339	96 96 97 96 95 97	96 96 97 97 95 97	96 96 97 96 95 97	91 89 96 92 94 96	96 96 94 97 95 95	91 90 84 89 86 88	91 91 89 97 92 93	94 93 89 91 90 92 94	94 94 93 96 94 94 96	93 93 91 96 93 94 95
HSE NW	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford	3348 7342 2093 1381 3474 1978 1339 1890	96 96 97 96 95 97	96 96 97 97 95 97 94	96 96 97 96 95 97 94	91 89 96 92 94 96 91	96 96 94 97 95 95 97 94	91 90 84 89 86 88 89 87	91 91 89 97 92 93 89	94 93 89 91 90 92 94 92	94 94 93 96 94 94 96 93	93 93 91 96 93 94 95 92
HSE NW	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford Wexford	3348 7342 2093 1381 3474 1978 1339 1890 2088	96 96 97 96 95 97 94 97	96 97 97 95 97 94 97	96 96 97 96 95 97 94 97	91 89 96 92 94 96 91 96	96 96 94 97 95 95 97 94 96	91 90 84 89 86 88 89 87 91	91 91 89 97 92 93 89 93	94 93 89 91 90 92 94 92 94	94 94 93 96 94 94 96 93 95	93 93 91 96 93 94 95 92 95
HSE NW	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford Wexford HSE SE Total	3348 7342 2093 1381 3474 1978 1339 1890 2088 7295	96 96 97 96 95 97 94 97 96	96 96 97 97 95 97 94 97	96 96 97 96 95 97 94 97	91 89 96 92 94 96 91 96 94	96 96 97 95 95 97 94 96	91 90 84 89 86 88 89 87 91 89	91 91 89 97 92 93 89 93 92	94 93 89 91 90 92 94 92 94 93	94 94 93 96 94 94 96 93 95 94	93 93 91 96 93 94 95 92 95 94
HSE NW	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford Wexford HSE SE Total North Cork	3348 7342 2093 1381 3474 1978 1339 1890 2088 7295 1464	96 96 97 96 95 97 94 97 96	96 97 97 95 97 94 97 96	96 96 97 96 95 97 94 97 96	91 89 96 92 94 96 91 96 94 92	96 96 94 97 95 95 97 94 96 96	91 90 84 89 86 88 89 87 91 89 88	91 91 89 97 92 93 89 93 92 90	94 93 89 91 90 92 94 92 94 93 92	94 94 93 96 94 96 93 95 94 93	93 93 91 96 93 94 95 92 95 94 94
HSE NW	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford Wexford HSE SE Total North Cork North South Lee	3348 7342 2093 1381 3474 1978 1339 1890 2088 7295 1464 5765	96 96 97 96 95 97 94 97 96 96	96 96 97 97 95 97 94 97 96	96 96 97 96 95 97 94 97 96 96	91 89 96 92 94 96 91 96 94 92	96 96 97 95 95 97 94 96 96 97	91 90 84 89 86 88 89 87 91 89 88 88	91 91 89 97 92 93 89 93 92 90 89	94 93 89 91 90 92 94 92 94 93 92 92	94 93 96 94 94 96 93 95 94 93 93	93 93 91 96 93 94 95 92 95 94 94 93
HSE NW	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford Wexford HSE SE Total North Cork North South Lee West Cork	3348 7342 2093 1381 3474 1978 1339 1890 2088 7295 1464 5765 746	96 96 97 96 95 97 94 97 96 95 93	96 97 97 95 97 94 97 96 95	96 96 97 96 95 97 94 97 96 95 95	91 89 96 92 94 96 91 96 94 92 91 87	96 96 94 97 95 95 97 94 96 96 97 95 93	91 90 84 89 86 88 89 87 91 89 88 88 88	91 91 89 97 92 93 89 93 92 90 89 85	94 93 89 91 90 92 94 92 94 93 92 92 89	94 93 96 94 94 96 93 95 94 93 93 90	93 93 91 96 93 94 95 92 95 94 94 93
HSE NW	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford Wexford HSE SE Total North Cork North South Lee West Cork Kerry	3348 7342 2093 1381 3474 1978 1339 1890 2088 7295 1464 5765 746 1794	96 96 97 96 95 97 94 97 96 95 93	96 97 97 95 97 94 97 96 95 93	96 96 97 96 95 97 94 97 96 95 95	91 89 96 92 94 96 91 96 94 92 91 87	96 96 97 95 95 97 94 96 96 97 95 93	91 90 84 89 86 88 89 87 91 89 88 88 88 87	91 91 89 97 92 93 89 93 92 90 89 85 89	94 93 89 91 90 92 94 92 94 93 92 92 99 91	94 94 93 96 94 96 93 95 94 93 95 94 93 93 93 93	93 93 91 96 93 94 95 92 95 94 94 93 91 93
HSE SE	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford Wexford HSE SE Total North Cork North South Lee West Cork Kerry HSE S Total	3348 7342 2093 1381 3474 1978 1339 1890 2088 7295 1464 5765 746 1794 9769	96 96 97 96 95 97 94 97 96 95 93 96 95	96 96 97 97 95 97 94 97 96 95 93 96	96 96 97 96 95 97 94 97 96 95 93 96	91 89 96 92 94 96 91 96 94 92 91 87 91 91	96 96 97 95 95 97 94 96 96 97 95 93	91 90 84 89 86 88 89 87 91 89 88 88 88 88 87 87	91 91 89 97 92 93 89 93 92 90 89 85 89 85	94 93 89 91 90 92 94 92 94 93 92 94 93 91 91	94 94 93 96 94 96 93 95 94 93 93 90 93 93	93 93 91 96 93 94 95 92 95 94 93 91 93 93
HSE NW	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford Wexford HSE SE Total North Cork North South Lee West Cork Kerry HSE S Total Galway	3348 7342 2093 1381 3474 1978 1339 1890 2088 7295 1464 5765 746 1794 9769 3648	96 96 97 96 95 97 94 97 96 95 93 96 95	96 97 97 95 97 94 97 96 95 93 96 95	96 96 97 96 95 97 94 97 96 95 93 96 95	91 89 96 92 94 96 91 96 94 92 91 87 91 91 95	96 96 94 97 95 95 97 94 96 96 97 95 93 96 96	91 90 84 89 86 88 89 87 91 89 88 88 83 87 95	91 91 89 97 92 93 89 93 92 90 89 85 89 89	94 93 89 91 90 92 94 92 94 93 92 92 92 89 91 91	94 94 93 96 94 96 93 95 94 93 93 93 90 93 93	93 93 91 96 93 94 95 92 95 94 93 91 93 93 96
HSE SE	Meath HSE NE Total Donegal Sligo/Leitrim HSE NW Total Carlow/Kilkenny South Tipperary Waterford Wexford HSE SE Total North Cork North South Lee West Cork Kerry HSE S Total Galway Mayo	3348 7342 2093 1381 3474 1978 1339 1890 2088 7295 1464 5765 746 1794 9769 3648 1665	96 96 97 96 95 97 94 97 96 95 93 96 98	96 97 97 95 97 94 97 96 95 93 96 95 98	96 96 97 96 95 97 94 97 96 95 93 96 95 98	91 89 96 92 94 96 91 96 94 92 91 87 91 91 95	96 96 97 95 95 97 94 96 96 97 95 98 98	91 90 84 89 86 88 89 87 91 89 88 88 87 87 95 92	91 91 89 97 92 93 89 93 90 89 85 89 89 na	94 93 89 91 90 92 94 92 94 93 92 92 89 91 91 97 98	94 94 93 96 94 96 93 95 94 93 93 93 90 93 93	93 93 91 96 93 94 95 92 95 94 93 91 93 93 94 94

^{*} As the denominator/number in cohort varied slightly according to vaccine the D_3 , T_3 and P_3 cohorts are shown here

Since $T_{3}\ uptake\ identical\ to\ D_{3}\ uptake\ only\ D_{3}\ uptake\ figures\ are\ presented$

Since $Polio_3$ uptake identical to Hib_3 uptake only Hib_3 uptake figures are presented

Please note while North Lee and South Lee are two separate Local Health Offices their combined immunisation uptake data are reported here

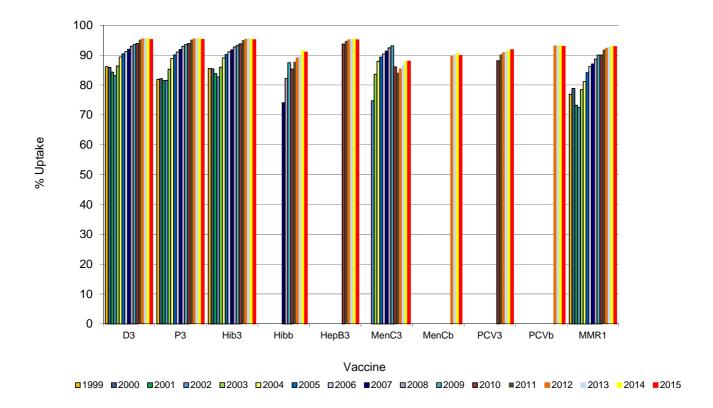


Figure 1. National annual immunisation uptake rates (based on available data) at 24 months, 1999-2015 Since T₃ and Polio₃ uptake identical to D₃ uptake only D₃ uptake figures presented.

 P_3 uptake could not be calculated accurately during 1999-2001 as DTaP/DT uptake was reported as a combined value for the HSE NE during 1999, Quarters 3 and 4 2000 and Quarter 1 2001 and the HSE NW in 2000 and 2001. The 2002 MenC₃ figure is based on uptake rates for Quarter 3 and Quarter 4 2002 only. The 2005 MMR₁ uptake figure is incomplete as the HSE E was unable to provide MMR data for Quarter 4 2005, due to technical problems. The 2006 MMR₁ figure includes the Quarter-1 2006 HSE E figure, which is an estimate only due to technical problems. The 2007 national Hib_b figure also includes the HSE SE data which are an underestimate due to data extraction methods. The 2008 Hib_b figure is incomplete as the HSE SE data which are an underestimate due to data extraction methods. The 2008 Hib_b figure is incomplete as the HSE SE data for Quarter 3 2008 were not available. The 2008 national MenC₃ figure is incomplete as the HSE E and HSE MW MenC₃ data for Quarter 3 2008 were not available. The 2009 data are incomplete as the following were unavailable: the Quarter 1 2009 HSE E D₃, T₃, P₃ and Polio₃ data for those born on the 31/03/2007; the Quarter 2 2009 HSE E Dublin North Hib_b uptake data and; the Quarter 4 2009 HSE MW data, HSE E Dublin North Hib_b data and HSE SE Hib_b data for those given a Hib dose as part of the five in one or six in one vaccine after 12 months of age. The 2010 data are incomplete as the following were unavailable: the Quarter 1 2010 HSE M and HSE S data and the HSE E Dublin North Hib_b data; the Quarter 2 2010 HSE M data and; the Quarter 4 2010 HSE NE data. As a new childhood immunisation schedule was introduced in 2008, for those born on or after July 1st 2008, the 2010 HepB₃ and PCV₃ data at 24 months are for those born between July 1st and December 31st 2008 (i.e. Quarters 3 and 4 2010 data) only. The MenC_b and PCV_b data were available for only six of the eight HSE Areas from Q1 2012 to Q4 2014 and for seven HSE Areas since Q1 2015.

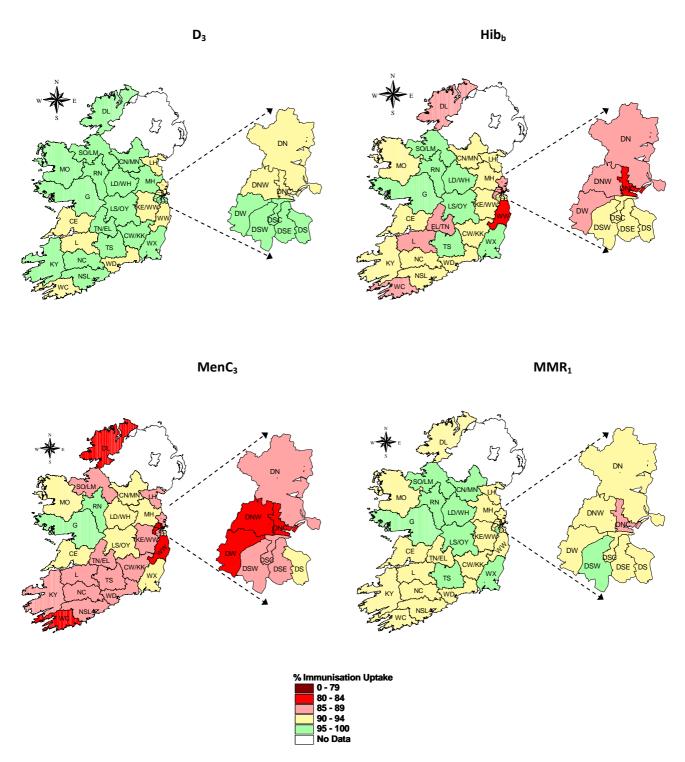


Figure 2. D_3 , Hib_b , $MenC_3$ and MMR_1 immunisation uptake rates (%) in those 24 months of age in 2015 by Local Health Office (LHO)

LHOs in Dublin are highlighted separately for ease of viewing

North Lee and South Lee are separate LHOs, however, their combined (labelled NSL on the map) immunisation uptake rate is reported here Please see table 4 to translate LHO abbreviations

Conclusion

National immunisation uptake rates, in children at 12 months of age in 2015, were 91% for D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂. Based on available data uptake of BCG was 86%. The HSE M and HSE W reached the target uptake rate of ≥95% for D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂ among children at 12 months of age. Among the LHOs, Roscommon had the highest uptake (97%) of D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, MenC₂ and PCV₂ at 12 months of age.

In 2015, national uptake rates at 24 months for MenC₃ (88%), Hib_b (91%), PCV₃ (92%) and MMR₁ (93%) were lower than the target uptake of \geq 95%. In 2015, national uptake rates at 24 months of age for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃ reached the target rate of \geq 95%. This is the fifth year national annual uptake rates reached the target of \geq 95% for these vaccines. Based on available data uptake of MenC_b was 90% and uptake of PCV₃ was 93%. The target uptake of \geq 95% was reached in six HSE Areas during 2015 for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃, in two HSE Areas for Hib_b and MMR₁, in one for PCV₃ and PCV_b and in none for MenC₃ and MenC_b (table 3). Galway and Roscommon were the only LHOs to reach the target of \geq 95% for D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, Hib_b, MenC₃, PCV₃ and MMR₁ for children at 24 months of age.

Quarterly Reports

The immunisation reports for Quarters 1 to 4 2015 are available on the HPSC website in *Topics A-Z* under the heading *vaccination*.

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.

Table 4. Local Health Office (LHO) abbreviations used in this chapter

Local Health Office Abbreviations	Local Health Office
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