



Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive



Immunisation uptake at 12 and 24 months of age

Summary

Among children at 12 months of age in 2016 uptake of:

D₃, T₃, P₃, Hib₃, Polio₃, HepB₃ and PCV₂ was 91%

MenC₂ was 89% (combined Quarters 1 and 2 data only)

MenC₁ was 95% (combined Quarters 3 and 4 data only)

Among children at 24 months of age in 2016 uptake of:

D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃ reached the target of 95%

MMR₁ was 92%

PCV₃ and Hib_b were 91%

MenC₃ was 87%

Introduction

In 2016, HPSC was provided with quarterly immunisation uptake data for each of the Local Health Offices (LHOs). 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 2016 quarterly data. The proportion of children who completed the recommended primary childhood immunisation schedule by 12 months (born between 01/01/2015 and 31/12/2015) and 24 months (born between 01/01/2014 and 31/12/2014) of age in 2016 are reported.

Children who were 12 and 24 months of age in 2016 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; and three doses of pneumococcal conjugate vaccine (PCV₃) recommended at two, six and 12 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). The immunisation schedule changed in 2015 for children born on or after July 1st 2015 after the NIAC recommended changing the meningococcal C (MenC) immunisation schedule in the primary childhood programme from three doses at 4, 6 and 13 months to two doses at 4 and 13 months because of evidence that a single dose of MenC vaccine provides protection for the first year of life. Further vaccinations are recommended for older children and adults. Please see the HSE-National Immunisation Office website at www.immunisation.ie 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 2016, born between 01/01/2015 and 31/12/2015, uptake of BCG, D₃, T₃, P₃, Hib₃, Polio₃, HepB₃ and two doses of PCV (PCV₂) was measured. In children at 12 months of age in Quarters 1 and 2 2016, born between 01/01/2015 and 30/06/2015, uptake of two doses of MenC (MenC₂) was measured and in children at 12 months of age in Quarters 3 and 4 2016, born between 01/07/2015 and 31/12/2015 uptake of one dose of MenC (MenC₁) was measured. In children at 24 months of age in 2016, born between 01/01/2014 and 31/12/2014, 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 Community Healthcare Organisation 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 30/09/2016

Age	Children born 01/07/2008 to 30/06/2015	Children born 01/07/2015 to 30/09/2016
Birth	BCG	BCG
2 months	DTaP/Hib/IPV/HepB (6 in 1) + PCV	DTaP/Hib/IPV/HepB (6 in 1) + PCV
4 months	DTaP/Hib/IPV/HepB (6 in 1) + MenC	DTaP/Hib/IPV/HepB (6 in 1) + MenC
6 months	DTaP/Hib/IPV/HepB (6 in 1) + PCV + MenC	DTaP/Hib/IPV/HepB (6 in 1) + PCV
12 months	MMR + PCV	MMR + PCV
13 months	MenC + Hib	MenC + Hib

Please note the primary immunisation schedule changed in 2015 for children born on or after 01/07/2015 and changed in 2016 for children born on or after October 1st 2016. Please see the HSE-National Immunisation Office (NIO) website at <http://www.immunisation.ie> 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	<i>Haemophilus influenzae</i> type b vaccine
IPV	Inactivated Polio Virus vaccine
MenC	Meningococcal group C vaccine
MMR	Measles, Mumps and Rubella vaccine
PCV	Pneumococcal Conjugate Vaccine

Caveats to data

National BCG data for 2016 are presented in this report and compared to 2015 data. The available national BCG cohort data may be around 89% of the national birth cohort in 2016 and 90% in 2015 (these figures are estimates only). In Cavan/Monaghan, Louth and Meath, i.e. the former HSE NE, where a neonatal BCG programme is implemented, data were not available for reporting. In CHO2, i.e. the former HSE W, the neonatal BCG programme was not routinely or comprehensively implemented in all LHOs. Therefore, data provided for CHO2 reflects BCG vaccination data for just a small proportion of all babies born here.

BCG vaccine stock in all CHOs expired at the end of April 2015. At the time of writing of this report the HSE continues to experience ongoing delays with the supply of BCG vaccine. This continues to be a Europe wide issue. The number of cases of TB has been steadily falling in Ireland. The number of cases of TB for the years 2014 and 2015 was at the lowest level since records began. Most European countries do not give BCG vaccine to all babies. The National Immunisation Advisory Committee (NIAC), an independent expert group on immunisation and the Health Information and Quality Authority (HIQA) have both recommended that BCG vaccine does not now need to be given routinely to all babies in Ireland. For further information please see <http://www.hse.ie/eng/health/immunisation/pubinfo/babychildimm/vaccprevdisease/tb/>

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 eight CHOs in 2015 and 2016. The available national cohort data may be around 91% of the national birth cohort in 2016 and 2015 (these figures are estimates only).

Immunisation uptake rates at 12 months

Ninety-one per cent of children, at 12 months of age in 2016, received D₃, T₃, P₃, Hib₃, Polio₃, HepB₃ and PCV₂ (table 2). Compared with 2015, the uptake rates for these vaccines were unchanged in 2016.

The MenC immunisation schedule changed in 2015 for children born on or after July 1st 2015. Eighty-nine per cent of children, at 12 months of age in Quarters 1 and 2 2016, received MenC₂ and 95% of children, at 12 months of age in Quarters 3 and 4 2016, received MenC₁ (table 2).

The available 2016 BCG cohort data may be around 89% (estimate only) of the national birth cohort. BCG vaccine stock in all HSE Areas expired at the end of April 2015. At the time of writing of this report the HSE continues to experience ongoing delays with the supply of BCG vaccine. This continues to be a Europe wide issue. National BCG uptake in 2016, based on available data, was 72%, 9%, 0.08% and 0.03% in Quarters 1, 2, 3 and 4, respectively.

Among the CHOs, uptake rates for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃ ranged from 88% to 94% and PCV₂ ranged from 87% to 94% (table 2). MenC₂ during Quarters 1 and 2 2016 ranged from 85% to 93% (table 2). MenC₁ during Quarters 3 and 4 2016 ranged from 92% to 96% (table 2).

Among the LHOs, uptake rates for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃ ranged from 81% to 96% and PCV₂ ranged from 78% to 96% (table 2). The target uptake of $\geq 95\%$ was reached in Sligo/Leitrim, Roscommon and Longford/Westmeath for D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, MenC₁ and PCV₂, MenC₂ for Roscommon, Laois/Offaly and Longford/Westmeath for MenC₂ in Quarters 1 and 2 and in total for 18 LHOs for MenC₁ in Quarters 3 and 4.

Table 2. Immunisation uptake (%) at 12 months of age in 2016 (i.e. cohort born 01/01/2015-31/12/2015) by LHO and CHO

Community Healthcare Organisation (CHO)	Local Health Office/ CHO	Number in cohort for BCG [*]	Number in cohort for D ₃ T ₃ [†]	Immunisation Uptake (%)						
				BCG	D ₃ [#]	Hib ₃	HepB ₃	MenC ₂ [‡]	MenC ₁ [‡]	PCV ₂
CHO1	Cavan/Monaghan	na	1909	na	92	92	92	93	97	95
	Donegal	2080	2080	28	92	92	91	87	96	92
	Sligo/Leitrim	1261	1261	31	96	95	95	93	97	95
	CHO1 Total*	3341	5250	29	93	93	92	91	96	94
CHO2	Galway	3493	3493	1	94	94	94	93	96	94
	Mayo	1583	1583	23	93	93	93	92	96	93
	Roscommon	825	825	3	95	95	95	95	96	96
	CHO2 Total	5901	5901	8	94	94	94	93	96	94
CHO3	Clare	1570	1579	25	93	93	93	91	96	93
	Limerick	1616	1927	25	89	89	89	86	93	89
	Tipperary NR/East Limerick	1782	1824	27	91	91	91	88	96	91
	CHO3 Total	4968	5330	25	91	91	91	88	95	91
CHO4	North Cork	1433	1413	27	90	90	90	87	93	87
	North South Lee	5612	5554	26	91	91	91	87	95	88
	West Cork	729	728	26	81	81	81	77	87	78
	Kerry	1757	1746	23	92	92	92	86	94	87
	CHO4 Total	9531	9441	26	90	90	90	86	94	87
CHO5	Carlow/Kilkenny	1830	1830	23	91	91	91	87	96	90
	South Tipperary	1211	1211	27	93	93	93	92	98	93
	Waterford	1740	1740	27	91	91	91	90	95	89
	Wexford	2015	2015	24	92	92	92	93	94	92
	CHO5 Total	6796	6796	25	92	92	92	90	95	91
CHO6	Dublin South	1683	1683	18	92	92	92	88	96	92
	Dublin South East	1582	1582	16	92	92	92	90	94	92
	Wicklow	1720	1720	18	89	89	89	82	94	88
	CHO6 Total	4985	4985	17	91	91	91	86	95	91
CHO7	Dublin South City	1724	1724	17	91	91	91	86	95	91
	Dublin South West	2400	2400	24	93	93	93	92	96	93
	Dublin West	2525	2525	6	90	90	90	90	95	91
	Kildare/West Wicklow	3641	3641	19	93	93	93	90	95	93
	CHO7 Total	10290	10290	17	92	92	92	90	95	92
CHO8	Laois/Offaly	2351	2351	24	94	94	94	95	94	94
	Longford/Westmeath	1840	1840	20	96	96	96	97	96	96
	Louth	na	1852	na	90	90	90	90	94	92
	Meath	na	3012	na	90	90	90	90	94	93
	CHO8 Total*	4191	9055	22	92	92	92	93	95	94
CHO9	Dublin North West	3476	3476	22	89	89	89	85	93	89
	Dublin North Central	1897	1897	24	88	88	88	84	91	88
	Dublin North	3954	3954	8	88	88	88	84	93	88
	CHO9 Total	9327	9327	16	88	88	88	85	92	88
Ireland		59330	66375	20	91	91	91	89	95	91

na=not available

* BCG data were unavailable for Cavan/Monaghan, Louth and Meath

BCG vaccine stock in all areas expired at the end of April 2015. At time of writing the HSE continues to experience ongoing delays with the supply of BCG vaccine. This continues to be a Europe wide issue. The number of cases of TB has been steadily falling in Ireland. The number of cases of TB for the years 2014 and 2015 was at the lowest level since records began. Most European countries do not give BCG vaccine to all babies. The National Immunisation Advisory Committee (NIAC), an independent expert group on immunisation and the Health Information and Quality Authority (HIQA) have both recommended that BCG vaccine does not now need to be given routinely to all babies in Ireland. Please see <http://www.hse.ie/eng/health/immunisation/pubinfo/babychildimm/vaccprevdisease/tb/> for further information.

National BCG uptake, based on available data, was 72%, 9%, 0.08% and 0.03% in Quarters 1, 2, 3 and 4, respectively.

†The denominator/number in cohort varied slightly according to vaccine. D₃T₃ cohort is shown here.

#Since T₃, P₃ and Polio₃ uptake identical to D₃ uptake only D₃ uptake figures are presented

‡The immunisation schedule changed in 2015 for children born on or after July 1st 2015 after the National Immunisation Advisory Committee (NIAC) recommended changing the meningococcal C (MenC) immunisation schedule in the primary childhood programme from three doses at 4, 6 and 13 months to two doses at 4 and 13 months because of evidence that a single dose of MenC vaccine provides protection for the first year of life. Hence uptake of two doses of MenC (MenC₂) was measured during Quarters 1 and 2 (birth cohort 01/01/2015-30/06/2015) and uptake of one dose of MenC (MenC₁) was now measured during Quarters 3 and 4 (birth cohort 01/07/2015-31/12/2015). Please note the immunisation schedule changed in 2016 for children born on or after October 1st 2016. Please see the HSE-National Immunisation Office (NIO) website at <http://www.immunisation.ie> for current and detailed information on the Irish primary childhood immunisation schedule and also recommended vaccinations for older children and adults.

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

Immunisation uptake rates at 24 months

National annual immunisation uptake rates, in children at 24 months of age in 2016, were 95% for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃, 92% for MMR₁, 91% for PCV₃, 91% for Hib_b and 87% for MenC₃ (table 3). This is the sixth year national annual uptake rates reached the target of ≥95% for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃. Compared with 2015, the uptake rates for D₃, T₃, P₃, Hib₃, Polio₃, HepB₃ and Hib_b were unchanged while MenC₃, PCV₃ and MMR₁ declined by one percent (figure 1).

Eight of the CHOs 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 2016. The available data may be around 91% (estimate only) of the national birth cohort. Where data were available, national uptake was 89% for MenC_b and 93% for PCV_b at 24 months of age (table 3).

Among the CHOs uptake rates for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃ ranged from 92% to 97%, MMR₁ ranged from 89% to 95%, PCV₃ ranged from 88% to 97%, Hib_b ranged from 86% to 94% and MenC₃ ranged from 83% to 94% and (table 3). Among the eight CHOs in a position to provide data PCV_b uptake ranged from 90% to 94% and MenC_b uptake ranged from 86% to 91% (table 3).

The target uptake of ≥95% was reached in six CHOs during 2016 for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃, in one CHO for PCV₃ and MMR₁ and in none for Hib_b, MenC₃, MenC_b and PCV_b (table 3).

D₃, Hib_b, MenC₃ and MMR₁ uptake rates are mapped by LHO in figure 2. Among the LHOs the uptake rates ranged from 91% to 98% for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃, 89% to 96% for PCV_b, 88% to 96% for MMR₁, 86% to 98% for PCV₃, 84% to 97% for Hib_b, 84% to 96% for MenC_b and 80% to 96% for MenC₃ (table 3).

The target uptake of ≥95% was reached in 23 LHOs for D₃, T₃, P₃, Hib₃ and Polio₃, 21 for HepB₃, in eight for Hib_b, in seven LHOs for MMR₁, in six for PCV_b, in four 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 ≥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 2016 (i.e. cohort born 01/01/2014-31/12/2014) by LHO and CHO

Community Healthcare Organisation (CHO)	Local Health Office/CHO	Number in cohort for D ₃ *	Immunisation Uptake (%)							
			D ₃ [†]	HepB ₃	Hib _b	MenC ₃	MenC _b	PCV ₃	PCV _b	MMR ₁
CHO1	Cavan/Monaghan	1934	97	97	91	89	90	93	94	94
	Donegal	1971	95	93	90	83	89	87	92	90
	Sligo/Leitrim	1292	97	97	96	87	96	90	96	96
	CHO1 Total	5197	96	95	92	86	91	90	94	93
CHO2	Galway	3565	97	97	95	95	na	96	na	96
	Mayo	1648	97	97	91	91	na	98	na	93
	Roscommon	878	98	98	96	96	na	97	na	96
	CHO2 Total	6091	97	97	94	94	na	97	na	95
CHO3	Clare	1496	95	95	94	90	93	91	93	93
	Limerick	1874	93	93	90	87	90	90	91	91
	Tipperary NR/East Limerick	1779	95	94	88	85	88	92	94	93
	CHO3 Total	5149	94	94	90	87	90	91	93	92
CHO4	North Cork	1342	96	96	92	88	90	91	92	93
	North South Lee	5611	95	95	89	86	88	91	92	91
	West Cork	682	92	92	89	84	86	88	89	90
	Kerry	1779	96	96	91	88	90	92	93	93
	CHO4 Total	9414	95	95	90	87	88	91	92	92
CHO5	Carlow/Kilkenny	2018	95	95	93	87	90	92	94	94
	South Tipperary	1232	97	96	95	88	92	94	95	95
	Waterford	1836	94	93	92	86	89	90	92	92
	Wexford	2126	96	96	95	89	93	93	95	94
	CHO5 Total	7212	95	95	93	88	91	92	94	94
CHO6	Dublin South	1679	95	95	92	90	92	92	93	93
	Dublin South East	1679	95	95	92	90	91	92	93	93
	Wicklow	1762	94	94	86	82	85	89	92	90
	CHO6 Total	5120	94	94	90	87	89	91	93	92
CHO7	Dublin South City	1616	95	95	89	86	89	89	91	91
	Dublin South West	2443	97	97	95	89	94	92	96	96
	Dublin West	2656	95	95	86	83	86	89	92	91
	Kildare/West Wicklow	3834	95	95	92	89	92	92	93	93
	CHO7 Total	10549	95	95	91	87	90	91	93	93
CHO8	Laois/Offaly	2509	97	97	97	90	92	93	95	96
	Longford/Westmeath	1930	97	97	97	91	94	95	95	96
	Louth	1824	94	94	87	83	86	89	91	90
	Meath	3175	95	95	89	86	88	90	91	91
	CHO8 Total	9438	96	96	92	87	90	91	93	93
CHO9	Dublin North West	3547	94	94	87	84	87	89	91	90
	Dublin North Central	1862	91	91	84	80	84	86	89	88
	Dublin North	4152	91	91	86	84	86	88	89	89
	CHO9 Total	9561	92	92	86	83	86	88	90	89
Ireland	67731	95	95	91	87	89	91	93	92	

* As the denominator/number in cohort varied slightly according to vaccine the D₃ cohort is shown here

† Since T₃, P₃, Hib₃ and Polio₃ uptake identical to D₃ uptake only D₃ 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

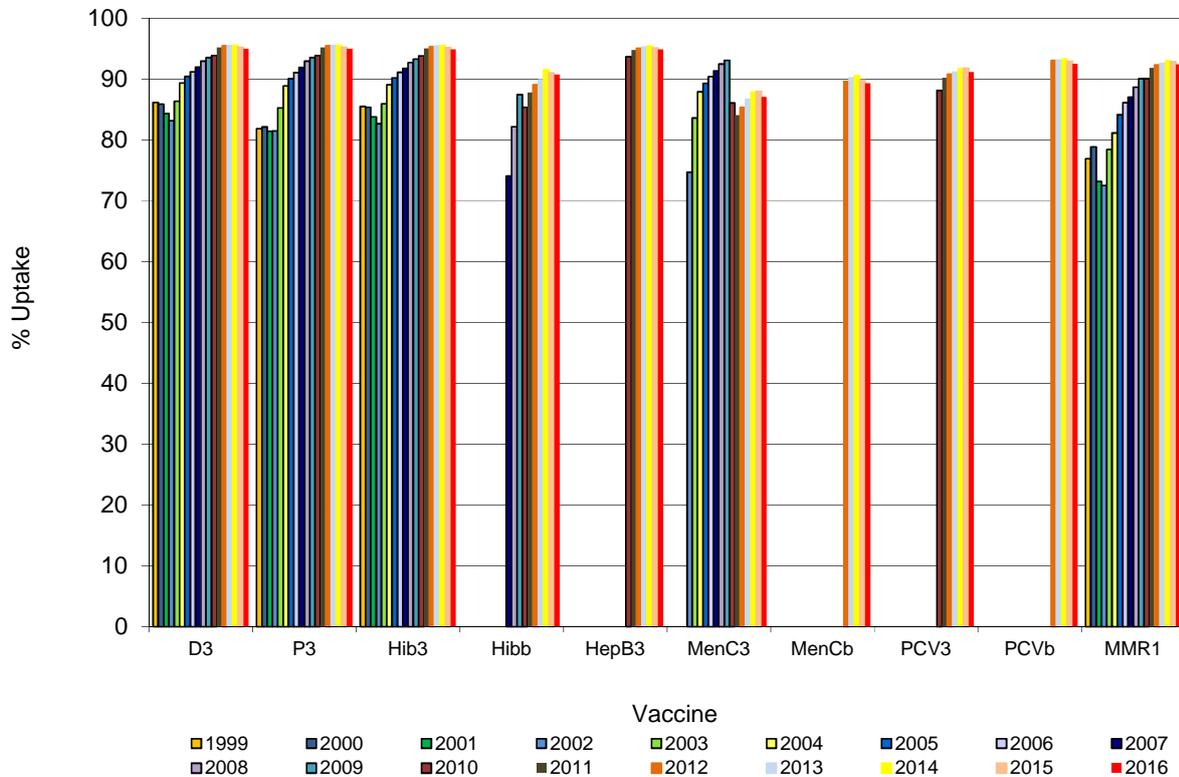


Figure 1. National annual immunisation uptake rates (based on available data) at 24 months, 1999-2016

Since T_3 and Polio₃ uptake identical to D_3 uptake only D_3 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 is incomplete, as the HSE W data for Quarter 1 2007 and the HSE NW data for Quarter 3 2007 were not available. 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 for Q2 2008 and the HSE MW 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 D_3 , T_3 , P_3 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 MenCb 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.

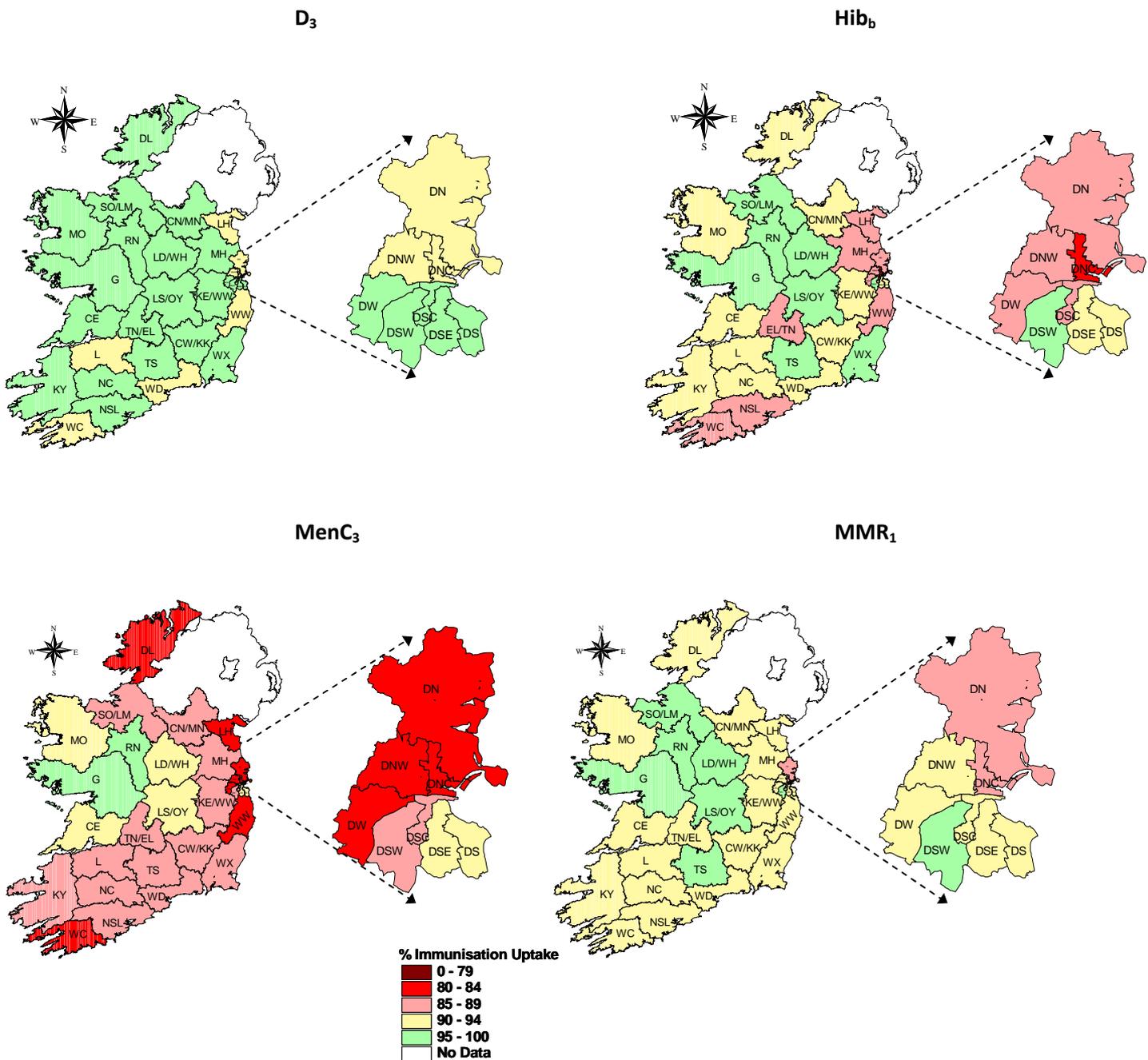


Figure 2. D_3 , Hib_b , $MenC_3$ and MMR_1 immunisation uptake rates (%) in those 24 months of age in 2016 by Local Health Office (LHO)

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 2016, were 91% for D₃, T₃, P₃, Hib₃, Polio₃, HepB₃ and PCV₂. The MenC immunisation schedule changed in 2015 for children born on or after July 1st 2015. Eighty-nine per cent of children, at 12 months of age in Quarters 1 and 2 2016, received MenC₂ and 95% of children, at 12 months of age in Quarters 3 and 4 2016, received MenC₁.

In 2016, national uptake rates at 24 months for MenC₃ (87%), Hib_b (91%), PCV₃ (91%) and MMR₁ (92%) were lower than the target uptake of ≥95%. In 2016, national uptake rates at 24 months of age for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃ reached the target rate of ≥95%. This is the sixth year national annual uptake rates reached the target of ≥95% for these vaccines. Based on available data uptake of MenC_b was 89% and uptake of PCV_b was 93%. The target uptake of ≥95% was reached in six CHOs during 2016 for D₃, T₃, P₃, Hib₃, Polio₃ and HepB₃, in one CHO for PCV₃ and MMR₁ and in none for Hib_b, MenC₃, MenC_b and PCV_b. Galway and Roscommon were the only LHOs to reach the target of ≥95% for D₃, T₃, P₃, Hib₃, Polio₃, HepB₃, Hib_b, MenC₃, PCV₃ and MMR₁ for children at 24 months.

Quarterly Reports

The immunisation reports for Quarters 1 to 4 2016 are available on the HPSC website in *Topics A-Z* under the heading *vaccination*.

Acknowledgements

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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