

Summary

In Quarter 1-2007, national immunisation uptake rates in children 12 months of age were 86% for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃.

National immunisation uptake rates in children 24 months of age, in Q1-2007, were 91% for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃. Uptake of these vaccines was 98% in the HSE-Midland Area in Q1-2007, the highest reported by any HSE-Area since the national collation of these statistics commenced in 1999. Where data were available (7 out of 8 HSE-Areas were in a position to report data) the national immunisation uptake rate for the Hib booster was 77%.

In Q1-2007, the national immunisation uptake rate at 24 months for MMR₁ was 86%. The target uptake rate of ≥95% was reached for MMR₁ in the HSE-Midland Area in Q1-2007.

Trends at 12 months

Figure 1 presents the national uptake rates at 12 months for each vaccine from Q3-2000 to Q1-2007. In Q1-2007 national uptake rates for D₃, P₃, T₃, and Polio₃ decreased by 1% when compared to the previous quarter. Hib₃ and MenC₃ uptake remained unchanged compared to Q4-2006.

The HSE-Eastern Area reported increases of 1-2% in uptake rates for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃ at 12 months compared to Q4-2006. The HSE-South Eastern Area reported decreases of 3-4% and HSE-Southern Area reported decreases of 2-3% in uptake rates for all vaccines (except BCG) at 12 months compared to the previous quarter.

Internationally

Vaccination coverage statistics for children 12 months of age in Quarter 1-2007 were 90-91% in England, 95-96% in Wales, 96% in Northern Ireland and 94-98% in Scotland.¹ Please see HPA report for caveats to data.¹

Introduction

The immunisation uptake statistics presented in this report relate to children 12 and 24 months of age in Quarter 1-2007 and who have received three doses of vaccines against diphtheria (D₃), pertussis (P₃), tetanus (T₃), *Haemophilus influenzae* type b (Hib₃), polio (Polio₃) and meningococcal group C (MenC₃), one booster dose of vaccine against *Haemophilus influenzae* type b after 12 months of age (Hib_b: uptake at 24 months only), one dose of vaccine against measles, mumps and rubella (MMR₁; uptake at 24 months only) and one dose of BCG vaccine (BCG: uptake at 12 months only). These statistics therefore relate to uptake in the cohorts born between 01/01/2006 & 31/03/2006 and 01/01/2005 & 31/03/2005.

Immunisation uptake at 12 months

Immunisation uptake rates in children 12 months of age in Q1-2007 are presented (Table 1). National uptake rates for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃ were 86%. In Q1-2007 the highest uptake rates for these vaccines at 12 months was in the HSE-North Western Area (92-93%) while the lowest rates were in the HSE-Southern and South Eastern Areas (84%). BCG uptake data were available for five of the eight HSE-Areas (data from HSE-Southern Area relates to Kerry CCA only). These areas cover only a third of the national birth cohort. Where data were available, national uptake was 93% for the BCG vaccination. This is a decrease of one percent compared to Q4-2006 when BCG uptake was 94%.

Table 1. Immunisation uptake (%) at 12 months in cohort born 01/01/2006–31/03/2006

HSE Area	No. in cohort	BCG	D ₃	P ₃	T ₃	Hib ₃	Polio ₃	MenC ₃
Eastern	5506	na	85	85	85	85	85	84
Midland	955	92	91	91	91	91	91	91
Mid Western	1309	97	88	88	88	88	88	88
North Eastern	1656	na	89	89	89	89	89	86
North Western	821	95	93	93	93	93	93	92
South Eastern	1746	92	84	84	84	84	84	84
Southern	2167	90 [†]	84	84	84	84	84	84
Western	1411	na	86	86	86	86	86	87
Ireland	15571 ^{**}	93	86	86	86	86	86	86

na = not available at this time

[†]HSE-Southern - part coverage of neonatal BCG (i.e. Kerry only)

^{**}Number in cohort for BCG vaccination = 5,218

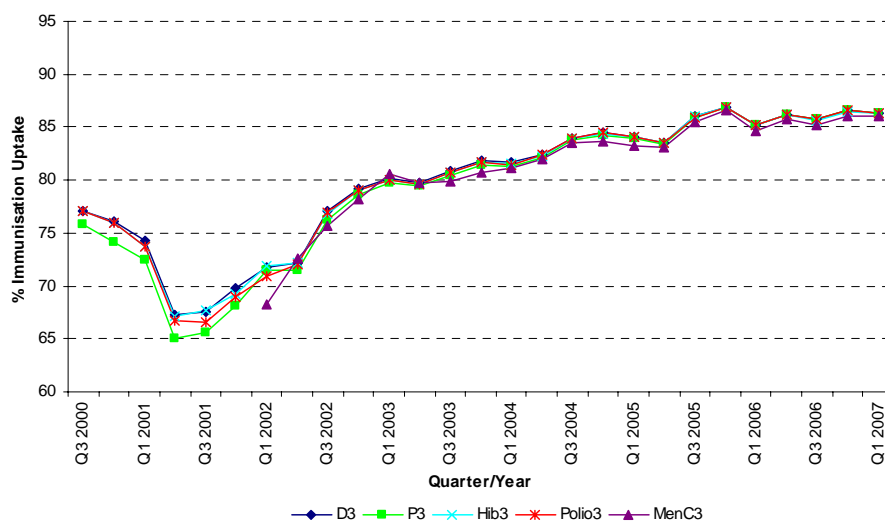


Figure 1. National quarterly immunisation uptake rates at 12 months

Immunisation uptake at 24 months

Immunisation uptake rates in children 24 months of age in Q1-2007 are presented (Table 2). National uptake rates were 91% for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃. Uptake rates for these vaccines ranged from 87-88% in the HSE-Eastern Area to 98% in the HSE-Midland Area (Table 2). MMR₁ uptake was 86% nationally, ranging from 82% in the HSE-Eastern Area to 95% in the HSE-Midland Area (Table 2). The target uptake rate of 95% was reached for D₃, P₃, T₃, Hib₃, Polio₃, MenC₃ and MMR₁ in the HSE-Midland Area and for D₃, P₃, T₃, Hib₃ and Polio₃ in the HSE-North Western Area. Q1-2007 is the first quarter where uptake statistics for the Hib booster are available. Data were available for seven of the eight HSE-Areas; these areas cover approximately 91% of the birth cohort. Where data were available, national uptake was 77%. The Hib booster is discussed further below.

Trends at 24 months

Figure 2 presents the national uptake rates at 24 months for each antigen from Q1-1999 to Q1-2007. In Q1-2007, national uptake rates for D₃, P₃, T₃, Hib₃ and Polio₃ decreased by 1% compared to Q4-2006. MenC₃ remained unchanged when compared with the previous quarter.

Uptake rates for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃ in the HSE-Midland Area were 98%, an increase of 1% compared to the previous quarter. This is the highest uptake reported by any HSE Area since the national collation of these statistics commenced in 1999.

Hib booster uptake

Following the national Hib campaign from November 2005 to May 2006, among children less than four years, a Hib booster was introduced into the childhood immunisation schedule in September 2006. All children reaching 12 months of age are now offered the Hib booster at the same time as MMR vaccine to give extra protection against Hib infection.

Q1-2007 is the first quarter where uptake statistics for the Hib booster (Hib_b), in children 24 months of age, are available. These figures relate to children who received a dose of Hib after 12 months of age.

Data were available for seven of the eight HSE-Areas in Q1-2007, covering approximately 91% of the birth cohort. Where data were available the national uptake rate for Hib_b was 77%, ranging from 66% in the HSE-South Eastern Area to 89% in the HSE-Mid Western Area.

MMR₁ uptake

In Q1-2007, the national MMR₁ uptake rate at 24 months was 86%, unchanged from the previous quarter.

Compared to Q4-2006 the MMR₁ uptake rate increased by 2% in the HSE-Mid Western and North Eastern Areas but decreased by 2% in the HSE-South Eastern Area.

The target uptake rate of 95% was reached for MMR₁ in the HSE-Midland in Q1-2007. The HSE-Midland previously reported 95% uptake of MMR₁ in Q4-2005 and Q1-2006. The HSE-Midland is the only area to report 95% uptake of MMR₁ since the national collation of these statistics commenced in 1999.

References

1. COVER programme: January to March 2007. Health Protection Report 2007: 1(25). Available at: <http://www.hpa.org.uk/hpr>

Table 2. Immunisation uptake (%) at 24 months in cohort born 01/01/2005 – 31/03/2005

HSE Area	No. in cohort	D ₃	P ₃	T ₃	Hib ₃	Hib _b	Polio ₃	MenC ₃	MMR ₁
Eastern	5242	88	88	88	88	72*	88	87	82
Midland	885	98	98	98	98	88	98	98	95
Mid Western	1263	92	92	92	92	89	92	92	89
North Eastern	1551	93	93	93	93	88	93	92	90
North Western	835	97	97	97	95	86 [†]	97	94	91
South Eastern	1739	90	90	90	90	66	90	89	85
Southern	2160	94	94	94	94	76	94	93	87
Western	1389	94	94	94	94	na	94	93	85
Ireland	15064[§]	91	91	91	91	77[†]	91	91	86

na = not available at this time

* Please note the Hib_b immunisation uptake rate reported relates to children in this birth cohort who received one dose of Hib after 12 months of age, as this was the format most HSE-Areas could extract the data. The HSE-E rate is probably an underestimate as only the number of children who had received four doses of Hib (Hib₄) was included in the calculation.

[†]Figure revised since the Q1 2007 report was first produced in July 2007

[§]Number in cohort for Hib_b vaccination = 13,760

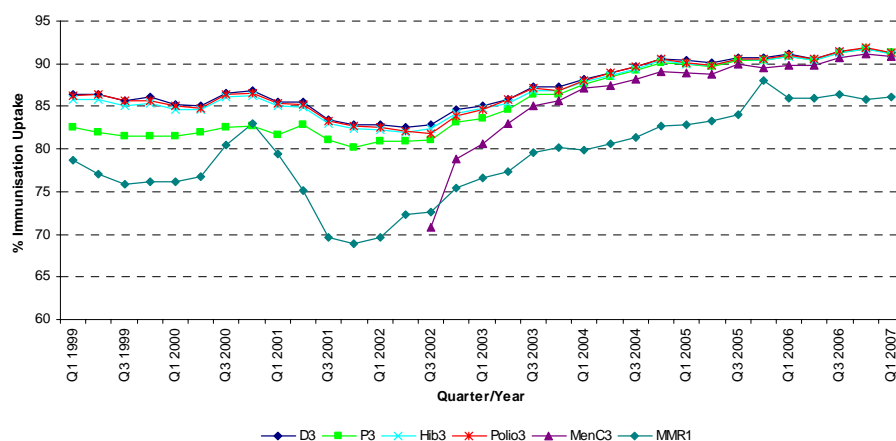


Figure 2. National quarterly immunisation uptake rates at 24 months

Please note The Q4-2005 MMR₁ figure is based on data from seven of the eight HSE-Areas as the HSE-Eastern Area were unable to provide MMR₁ uptake data. The Q1-2006 figure includes the HSE-Eastern Area MMR₁ figure which is an estimate only

Internationally

In Q1-2007, vaccination coverage statistics at 24 months for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃ were 93% in England, 96-97% in Wales, 98% in Northern Ireland and Scotland.¹ MMR₁ uptake was 85% in England, 88% in Wales and 92% in Northern Ireland and Scotland.¹ Please see HPA report for caveats to data.¹

Conclusions

In Q1-2007, the national MMR₁ uptake was 86%, this is 9% below the national target rate of 95%. The uptake rate for Hib_b was 18% below the target rate. Uptake rates for all other vaccines at 24 months were 4% below the national target rates.

Further information

The Q1-2007 immunisation uptake statistics are also presented by Local Health Office (LHO) in a separate summary document, available at <http://www.hpsc.ie>. A complete listing of national and regional immunisation uptake statistics at 12 and 24 months for each HSE Area is also available at <http://www.hpsc.ie>.

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