

Summary

In Quarter 3-2007, national immunisation uptake rates in children 12 months of age were unchanged (87%) compared to Q2-2007.

In Q3-2007, national immunisation uptake rates in children 24 months of age for D₃ and T₃ increased by 2% compared to the previous quarter while national uptake rates for P₃, Hib₃, Polio₃ and MenC₃ increased by 1%. Uptake rates at 24 months, in Q3-2007, for D₃ and T₃ were 93% and 92% for P₃, Hib₃, Polio₃ and MenC₃. The target uptake rate of 95% was reached or exceeded for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃ in the HSE-Midland Area and for D₃, P₃, T₃, Hib₃ and Polio₃ in the HSE-North Western Area.

Uptake statistics for the Hib booster were available for seven of the eight HSE-Areas in Q3-2007, where data were available the national uptake rate was 73%.

In Q3-2007, the national immunisation uptake rate at 24 months for MMR₁ was 88%, an increase of 2% from the previous quarter. The target uptake rate of 95% was reached for MMR₁ in the HSE-Midland Area.

Trends at 12 months

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

Compared to the previous quarter the HSE-Midland, Mid-Western and South Eastern Areas reported increases of 2-3% in uptake rates for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃ in children 12 months of age while the HSE-North Western Area reported a decrease of 2%.

Internationally

Vaccination coverage statistics for D₃, P₃, T₃, Hib₃ and Polio₃ for children 12 months of age in Quarter 3-2007 were 90% in England, 95% in Wales, 95% in Northern Ireland and 96.5% in Scotland.¹ MenC₂ uptake was 88% in England, 94% in Wales and 96% 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 3-2007 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 01/07/2006 & 30/09/2006 and 01/07/2005 & 30/09/2005.

Immunisation uptake at 12 months

Immunisation uptake rates in children 12 months of age in Q3-2007 are presented (Table 1). National uptake rates for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃ were 87%. The highest uptake rates for these vaccines at 12 months were in the HSE-Midland Area (93%) while the lowest rates were in the HSE-Southern Area (83%). BCG uptake data were available for five of the eight HSE-Areas (data from HSE-Southern Area relates to Kerry only). These areas cover approximately a third of the national birth cohort. Where data were available, national uptake was 92% for the BCG vaccination. This is a decrease of two percent compared to Q2-2007 when BCG uptake was 94%.

Table 1. Immunisation uptake (%) at 12 months in cohort born 01/07/2006–30/09/2006

HSE Area	No. in cohort	BCG	D ₃	P ₃	T ₃	Hib ₃	Polio ₃	MenC ₃
Eastern	6251	na	86	86	86	86	86	86
Midland	1194	89	93	93	93	93	93	93
Mid Western	1450	97	90	90	90	90	90	90
North Eastern	1911	na	90	90	90	90	90	88
North Western	935	93	90	90	90	90	90	89
South Eastern	2042	91	88	88	88	88	88	88
Southern	2356	88*	83	83	83	83	83	83
Western	1622	na	86	86	86	86	86	87
Ireland	17761 [†]	92	87	87	87	87	87	87

na = not available at this time

*HSE-Southern - part coverage of neonatal BCG (i.e. Kerry only)

[†]Number in cohort for BCG vaccination = 6,028

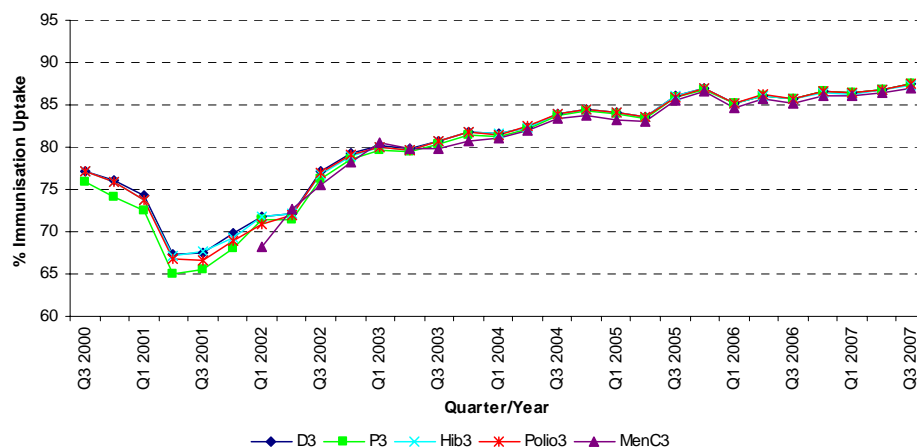


Figure 1. National quarterly immunisation uptake rates at 12 months

Immunisation uptake at 24 months

Immunisation uptake rates in children 24 months of age in Q3-2007 are presented (Table 2). National uptake rates were 93% for D₃ and T₃ and 92% for P₃, Hib₃, Polio₃ and MenC₃. Uptake rates for these vaccines ranged from 90% in the HSE-Eastern Area to 97% in the HSE-Midland Area (Table 2). The target uptake rate of 95% was reached or exceeded for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃ in the HSE-Midland Area and for D₃, P₃, T₃, Hib₃ and Polio₃ in the HSE-North Western Area. All eight HSE Areas had uptake of 90% or greater for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃. MMR₁ uptake was 88% nationally, ranging from 85% in the HSE-Eastern and Western Areas to 95% in the HSE-Midland Area (Table 2). Uptake statistics for the Hib booster were available for seven of the eight HSE-Areas in Q3-2007, where data were available the national uptake rate was 73%.

Trends at 24 months

D₃, P₃, T₃, Hib₃, Polio₃ & MenC₃ uptake

Figure 2 presents the national uptake rates at 24 months for each vaccine from Q1-1999 to Q3-2007. In Q3-2007, national uptake rates for D₃, and T₃ increased by 2% compared to Q2-2007 while national uptake rates for P₃, Hib₃, Polio₃ and MenC₃ increased by 1%.

The HSE-South Eastern Area uptake rates for D₃, P₃, T₃, Hib₃, Polio₃ and MenC₃ in Q3-2007 increased by 2-3% compared to the previous quarter while the uptake rates in the HSE-Eastern, Mid Western and North Eastern Areas increased by 1-2%.

Hib booster uptake

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

Q3-2007 is the third quarter where uptake statistics for Hib_b are available. These figures relate to children who received a dose of Hib after 12 months of age. (Data were requested on children who had received the recommended four doses of Hib vaccine, however, most areas could only provide data on children who had received a Hib booster after 12 months of age.)

In Q3-2007 uptake statistics for Hib_b were available from seven of the eight HSE Areas. Where data were available national uptake was 73%, ranging from 67% in the HSE-Eastern and Western Areas to 93% in the HSE-Midland Area. Data were available from all eight HSE-Areas in Q2-2007 when uptake was also 73%.

MMR₁ uptake

In Q3-2007, the national MMR₁ uptake rate at 24 months was 88%, a 2% increase from the previous quarter.

Compared to Q2-2007, the MMR₁ uptake rate increased by 2% in the HSE-Eastern and South Eastern Areas and by 1% in the HSE-Midland, Mid Western, North Eastern and Southern Areas. The MMR₁ uptake rate was unchanged in the remaining HSE Areas compared to the previous quarter.

Table 2. Immunisation uptake (%) at 24 months in cohort born 01/07/2005 – 30/09/2005

HSE Area	No. in cohort	D ₃	P ₃	T ₃	Hib ₃	Hib _b *	Polio ₃	MenC ₃	MMR ₁
Eastern	5873	90	90	90	90	67	90	90	85
Midland	1036	97	97	97	97	93	97	97	95
Mid Western	1386	93	93	93	92	82	92	92	90
North Eastern	1775	94	94	94	94	87	94	93	91
North Western	881	97	97	97	95	na	96	93	92
South Eastern	1880	92	92	92	91	69	92	90	87
Southern	2328	94	94	94	94	72	94	94	88
Western	1549	94	94	94	93	67	94	93	85
Ireland	16708 [†]	93	92	93	92	73	92	92	88

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 and HSE-W rates are probably underestimates as only the number of children who had received four doses of Hib (Hib₄) was included in the calculation, as requested.

[†]Number in cohort for Hib_b vaccination = 16,133

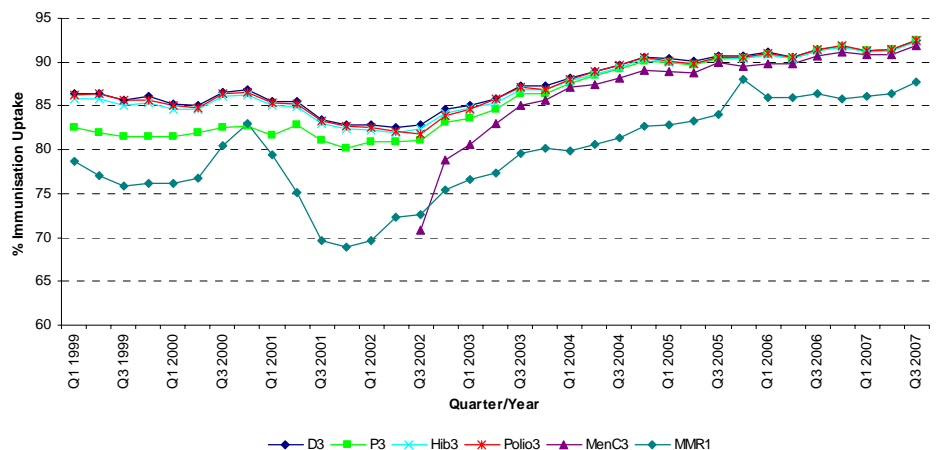


Figure 2. National quarterly immunisation uptake rates at 24 months

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 Q3-2007, vaccination coverage statistics at 24 months for D₃, P₃, T₃, Hib₃ and Polio₃ were 93.5% in England, 97% in Wales and Northern Ireland and 98% in Scotland.¹ MenC uptake was 93.5% in England, 95% in Wales and 97% in Northern Ireland and Scotland.¹ MMR₁ uptake was 84% in England, 88% in Wales, 91% in Northern Ireland and 92% in Scotland.¹ Please see HPA report for caveats to data.¹

Conclusions

In Q3-2007, the national MMR₁ uptake was 88%. This is an improvement of 2% compared to the previous quarter but is 7% below the target rate of 95%. The uptake rate for Hib_b was 22% below the target rate. Uptake rates for all other vaccines at 24 months were 2-3% below the target rates.

Further information

The Q3-2007 immunisation uptake statistics by Local Health Office (LHO) are also presented 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>.

Acknowledgements

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References

1. COVER programme: July to September 2007. Health Protection Report 2007: 1(51). Available at: <http://www.hpa.org.uk/hpr>