

## Summary

In Quarter 3-2005, national immunisation uptake rates in children 12 months of age increased by 2-3% when compared with Q2-2005 except BCG, which decreased by 2%. Uptake rates of all vaccines were 86% with the exception of BCG (92%).

At 24 months, national immunisation uptake rates increased by 1% for D<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub>, MenC<sub>3</sub> and MMR<sub>1</sub> when compared with the previous quarter. Uptake rate of P<sub>3</sub> remained unchanged. Uptake rates at 24 months for D<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> were 91%. P<sub>3</sub> and MenC<sub>3</sub> uptake was 90%. The uptake rate for MMR<sub>1</sub> was 84%. This is the highest MMR<sub>1</sub> uptake achieved in Ireland since the national collation of quarterly data began in Q1-1999.

## Trends at 12 months

Figure 1 presents the national uptake rates at 12 months for each vaccine from Q3-2000 to Q3-2005. National uptake rates for all antigens at 12 months in Q3-2005 increased by 2-3% when compared to the previous quarter with the exception of BCG; BCG decreased by 2%. HSE-E and HSE-W reported an increase of 4-5% in uptake rates for all antigens at 12 months. HSE-MW and HSE-M reported increases of 1 and 2%, respectively, in all antigens except BCG. HSE-NE reported a 1% increase in P<sub>3</sub> and MenC<sub>3</sub> compared with the previous quarter.

## Internationally

Vaccination coverage statistics for children 12 months of age in Quarter 3-2005 were 95-96% in Northern Ireland, 94-95% in Wales and 95-96% in Scotland.<sup>1</sup>

## Introduction

The immunisation uptake statistics presented in this report relate to children 12 and 24 months of age in Quarter 3-2005 and who have received 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>), meningococcal group C (MenC<sub>3</sub>), one dose of vaccine against measles, mumps and rubella (MMR<sub>1</sub>; 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 01/07/2004 & 30/09/2004 and 01/07/2003 & 30/09/2003.

## Immunisation uptake at 12 months

Immunisation uptake rates in children 12 months of age in Q3-2005 are presented (Table 1). National uptake rates for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and MenC<sub>3</sub> were 86%. This was the highest uptake at 12 months reported since the collation of these statistics commenced five years ago. In Q3-2005 the highest uptake rates for these vaccines at 12 months were reported by the HSE-M (93%), while the lowest rates were reported in the HSE-E (82%).

Quarter 3-2005 is the ninth-quarter where uptake statistics for BCG vaccination are presented. Data are available for five of the eight HSE-Areas (data from HSE-S relates to Kerry CCA only). These areas cover only a third of the Q3-2005 birth cohort. Where data were available, national uptake was 92% for the BCG vaccination. This represents a 2% decrease on the figure reported in Q2-2005 (94%). The target rate of 95% uptake for BCG vaccine was reached in the HSE-SE in Q3-2005.

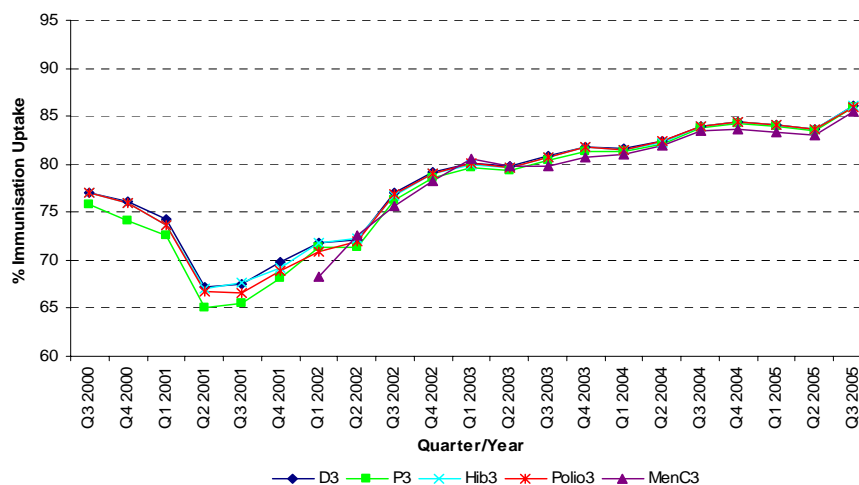
**Table 1.** Immunisation uptake (%) at 12 months in cohort born 01/07/2004–30/09/2004

HSE Area	No. in cohort	BCG	D <sub>3</sub>	P <sub>3</sub>	T <sub>3</sub>	Hib <sub>3</sub>	Polio <sub>3</sub>	MenC <sub>3</sub>
East	5885	na	82	82	82	82	82	82
Midland	1058	91	93	93	93	93	93	93
Midwest	1358	90	87	87	87	87	87	87
Northeast	1698	na	90	90	90	90	90	90
Northwest	806	88	90	90	90	90	90	89
Southeast	1752	97*	87	86	87	87	87	86
South	2190	92†	85	85	85	85	85	85
West	1512	na	89	89	89	89	89	86
<b>Ireland</b>	<b>16259**</b>	<b>92</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>

na = not available at this time \* HSE-SE - number in cohort for BCG = 1675

†HSE-S - part coverage of neonatal BCG (i.e. Kerry only)

\*\*Number in cohort for BCG vaccination = 5359



**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 Quarter 3-2005 are presented (Table 2). National uptake rates were 91% for D<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub>, and 90% for P<sub>3</sub> and MenC<sub>3</sub>. Uptake rates for these vaccines ranged from 87-88% in the HSE-E to 94-96% in the HSE-NW and 96% in the HSE-M (Table 2). The target uptake rate of 95% was reached for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub> and Polio<sub>3</sub> in the HSE-M and HSE-NW and for MenC<sub>3</sub> in the HSE-M. Seven of the eight HSE regions had over 90% uptake for all these antigens. MMR<sub>1</sub> uptake was 84% nationally, ranging from 79% in the HSE-E to 93% in the HSE-M (Table 2).

### Trends at 24 months

Figure 2 presents the national uptake rates at 24 months for each antigen from Q1-1999 to Q3-2005. In Q3-2005, national uptake rates for D<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and MenC<sub>3</sub> at 24 months increased by 1% when compared with the previous quarter. Uptake of P<sub>3</sub> remained unchanged compared to the previous quarter. Increases in uptake for all of these vaccines were reported by HSE-MW (2-3%) and HSE-NW (2-4%).

### MMR<sub>1</sub> uptake

In Q3-2005, the national MMR<sub>1</sub> uptake rate at 24 months was 84%, this is the highest MMR<sub>1</sub> uptake seen in Ireland since the national collation of quarterly data began in Q1-1999. MMR<sub>1</sub> uptake rates increased by 5% in the HSE-MW, 3% in the HSE-NE and 1% in the HSE-E and HSE-S compared to the previous quarter. MMR<sub>1</sub> uptake decreased in the HSE-NW, HSE-SE and HSE-W by 1%, 2% and 2%, respectively. The uptake rate for MMR<sub>1</sub> remained unchanged in HSE-M. As in the previous three quarters, the highest uptake rate for MMR<sub>1</sub> was recorded in the MHB (93%).

### Internationally

In Q3-2005, vaccination coverage statistics at 24 months for D<sub>3</sub>, P<sub>3</sub>, T<sub>3</sub>, Hib<sub>3</sub>, Polio<sub>3</sub> and MenC<sub>3</sub> were 97% in Northern Ireland, 95-96% in Wales and 96-97% in Scotland.<sup>1</sup> MMR<sub>1</sub> uptake was 91% in Northern Ireland, 85% in Wales and 90% in Scotland.<sup>1</sup>

## Conclusions

In Q3-2005, the national MMR<sub>1</sub> uptake was 84%, the highest MMR<sub>1</sub> uptake seen since the national collation of quarterly data began in Q1-1999. However, this still remains 11% below the national target rate of 95% uptake. Uptake rates for all other vaccines are 4-5% below the national target rates.

## Acknowledgements

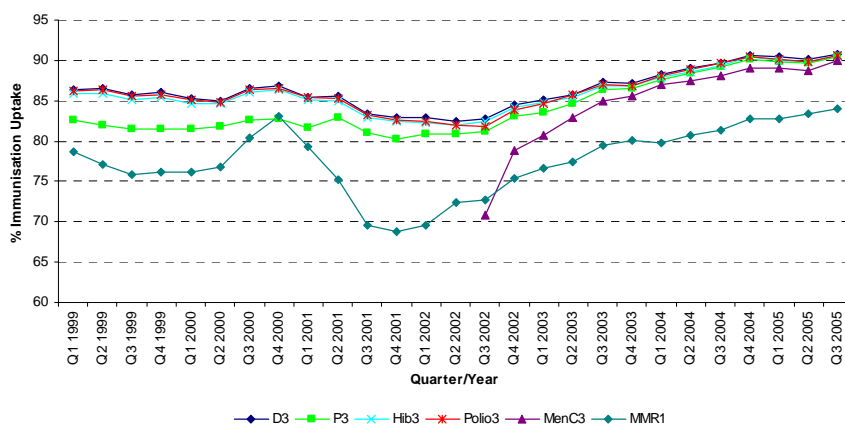
HPSC would like to thank the HSE Areas for providing data and special thanks to the Specialists in Public Health Medicine, Immunisation Co-ordinators, Surveillance Scientists and Systems Analysts for their assistance.

## References

1. COVER programme: July to September 2005. CDR Weekly 2005: 15(51). Available at: <http://www.hpa.org.uk/cdr/>

**Table 2.** Immunisation uptake (%) at 24 months in cohort born 01/07/2003 – 30/09/2003

HSE Area	No. in cohort	D <sub>3</sub>	P <sub>3</sub>	T <sub>3</sub>	Hib <sub>3</sub>	Polio <sub>3</sub>	MenC <sub>3</sub>	MMR <sub>1</sub>
East	5758	87	87	87	88	87	87	79
Midland	1043	96	96	96	96	96	96	93
Midwest	1323	92	91	92	92	91	91	90
Northeast	1535	93	93	93	93	92	92	91
Northwest	835	96	95	96	95	96	94	88
Southeast	1742	92	91	92	92	92	90	84
South	2146	91	91	91	91	91	90	86
West	1364	92	92	92	92	92	90	82
<b>Ireland</b>	<b>15746</b>	<b>91</b>	<b>90</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>90</b>	<b>84</b>



**Figure 2.** National quarterly immunisation uptake rates at 24 months

## Further information

Table 3 presents recent national quarterly immunisation uptake rates at 24 months from Q1-2003 to Q3-2005. A complete listing of national and regional immunisation uptake statistics at 12 and 24 months for each health board are available at the following URL:

<http://www.hpsc.ie/A-Z/VaccinePreventable/Vaccination/Publications/ImmunisationUptakeStatistics/>

**Table 3.** National quarterly immunisation uptake rates at 24 months

Quarter -Year	D <sub>3</sub>	P <sub>3</sub>	T <sub>3</sub>	Hib <sub>3</sub>	Polio <sub>3</sub>	MenC <sub>3</sub>	MMR <sub>1</sub>
Q1-2003	85	84	85	85	85	81	77
Q2-2003	86	85	86	85	86	83	77
Q3-2003	87	86	87	87	87	85	80
Q4-2003	87	86	87	87	87	86	80
Q1-2004	88	88	88	88	88	87	80
Q2-2004	89	88	89	89	89	87	81
Q3-2004	90	89	90	89	90	88	81
Q4-2004	91	90	91	90	90	89	83
Q1-2005	90	90	90	90	90	89	83
Q2-2005	90	90	90	90	90	89	83
Q3-2005	<b>91</b>	<b>90</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>90</b>	<b>84</b>