

COMMUNICABLE DISEASES

Monthly Report

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This edition of Monthly Report presents data on childhood vaccine preventable illness, and on the latest COVER data to end of quarter March 2007. Once again we are pleased to note MMR coverage at 24 months of age continuing at above 90%, complementing coverage of the other childhood primary vaccines now well established at 95%.

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Childhood Vaccine Preventable Illnesses and the Vaccination Programme

This edition of the Monthly Report presents statistics on childhood vaccine preventable diseases up to epidemiological week 24, 2007.

Routine surveillance data are unremarkable. Mumps notifications continue at just above baseline levels.

Vaccination uptake (COVER) statistics are now available for the quarter ended March 2007 and show MMR1 uptake at 24 months of age, at 91.6%; a decrease of 0.4 percentage points compared to the previous quarter's figure.

Childhood Vaccine Preventable Diseases

Routine information on childhood vaccine preventable diseases is available from three sources:

1. Clinical notifications

Table 1: Notifications of Vaccine Preventable Infectious Diseases, Northern Ireland

Disease	Weeks 13-16, 2007	Weeks 17-20, 2007	Weeks 21-24, 2007	Cumulative Total to Week 24 2007
Diphtheria	0	0	0	0
Measles	2	3	4	14
Mumps	13	14	9	79
Polio	0	0	0	0
Rubella	3	3	1	14
Tetanus	0	0	0	0
Whooping Cough	2	2	0	8

2. Laboratory reports

Table 2: Laboratory Reports of Vaccine Preventable Infectious Diseases, Northern Ireland

Disease	Weeks 13-16, 2007	Weeks 17-20, 2007	Weeks 21-24, 2007	Cumulative Total to Week 24, 2007	Cumulative Total to Week 24, 2006
Diphtheria	0	0	0	0	0
Invasive Hib disease†	0	0	0	0	0
Measles	0	0	0	0	0
Mumps*	3	0	0	8	13
Polio	0	0	0	0	0
Rubella	0	0	0	0	2
Tetanus	0	0	0	0	0
Whooping Cough	0	0	0	0	0

* Serologically confirmed by RVL

† Invasive disease due to all types of *H. Influenzae* (including untyped) is reported in the regular Positive Blood Culture tables

Note: Invasive disease due to *N. meningitidis* and *S. pneumoniae* are reported as separate epidemiological reports

3. Salivary Antibody Testing Results

Table 3: Salivary Antibody Testing Results, Quarter 2, 2007, Northern Ireland

		Quarter 2, 2007				Cumulative to Quarter 2, 2007			
	Board	Notifications*	Salivary test completed†	Confirmed Case	Not Confirmed	Notifications*	Salivary test completed†	Confirmed Case	Not Confirmed
Measles	NHSSB	2	4	0	4	2	4	0	4
	SHSSB	2	0	0	0	4	2	0	2
	EHSSB	1	1	0	1	3	3	0	3
	WHSSB	4	3	0	3	5	4	0	4
	Total	9	8	0	8	14	13	0	13
Mumps	NHSSB	13	13	0	13	35	26	0	26
	SHSSB	4	5	0	5	13	9	0	9
	EHSSB	11	5	3	2	20	7	3	4
	WHSSB	5	4	0	4	15	10	0	10
	Total	33	27	3	24	83	52	3	49
Rubella	NHSSB	2	4	0	4	2	4	0	4
	SHSSB	6	2	0	2	10	5	0	5
	EHSSB	1	1	0	1	2	1	0	1
	WHSSB	0	0	0	0	2	1	0	1
	Total	9	7	0	7	16	11	0	11

Source: CfI (Colindale),
CDSC (NI)

* Notification data to week 26

† Salivary tests may sometimes be performed without the case being notified

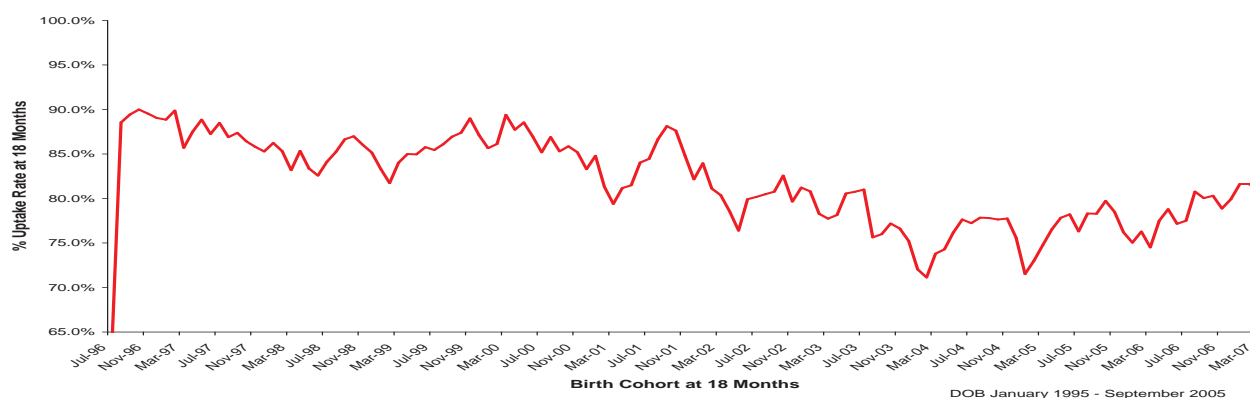
- Three cases of mumps confirmed
- No cases of measles confirmed
- No cases of rubella confirmed

Enhanced MMR Vaccination Uptake Surveillance

- MMR uptake for those aged 18 months in March 2007 was 81.04%

In addition to the quarterly COVER statistics showing MMR uptake at 24 months of age, CDSC (NI) undertake monthly monitoring of MMR vaccine uptake in children aged 18 months. This aims to identify any decline in uptake rates as early as possible, thus allowing the opportunity to encourage parents who have not presented their children for vaccination at 15 months to have them vaccinated before their second birthday.

Fig 1: Enhanced MMR Vaccine Surveillance at 18 Months of Age, July 1996 – March 2007, Northern Ireland Total



Vaccination Coverage Statistics for Children in Northern Ireland

COVER/Korner statistics now available for quarter January to March 2007:

- MMR uptake at 24 months is above 90% for the 8th consecutive quarter
- Uptake is 95.0% or above for other vaccinations at 12 and 24 months

The vaccination coverage statistics for Northern Ireland (COVER/Korner Programme) are now available for the first quarter of 2007. The statistics give detailed coverage data and numbers of children in the four Boards in Northern Ireland. The tables below show the coverage data for the children in the four Boards in Northern Ireland and the United Kingdom as a whole.

Table 4: Completed Primary Immunisations by 12 months of age (January – March 2007), Northern Ireland

Board	No of children in cohort	% Coverage at 12 months					
		Dip3	Tet3	Pol3	Pert3	Hib3	MenC
Eastern	1988	94.70%	94.70%	94.70%	94.70%	94.70%	94.10%
Northern	1380	97.30%	97.30%	97.30%	97.30%	97.30%	97.00%
Southern	1135	96.90%	96.90%	96.90%	96.90%	96.90%	96.90%
Western	1004	97.30%	97.30%	97.30%	97.30%	97.30%	96.20%
NI Total	5507	96.30%	96.30%	96.30%	96.30%	96.30%	95.80%

- Uptake of most primary vaccines at 12 months have remained the same with a decrease of 0.6 percentage points for MenC. All rates at the Northern Ireland level remain at 95% or above.

Table 5: Completed Primary Immunisations by 24 months of age (January – March 2007), Northern Ireland

Board	No of children in cohort	% Coverage at 24 months						
		Dip3	Tet3	Pol3	Pert3	Hib3	MMR	MenC
Eastern	1902	97.10%	97.10%	97.10%	97.10%	97.10%	89.20%	97.30%
Northern	1378	98.20%	98.20%	98.20%	98.20%	98.20%	92.40%	98.00%
Southern	1160	97.30%	97.30%	97.30%	97.30%	97.30%	92.90%	97.50%
Western	901	98.20%	98.20%	98.20%	98.20%	98.20%	93.70%	98.00%
NI Total	5341	97.60%	97.60%	97.60%	97.60%	97.60%	91.60%	97.60%

- Uptake of MMR1 has decreased by 0.4 percentage points compared to last quarter
- All other vaccinations show an increase of between 0.1 and 0.2 percentage points
- With the exception of MMR1, uptake remains at 95% or above

Fig 2: Vaccination uptake rates at 24 months Northern Ireland: 1996 – 2007

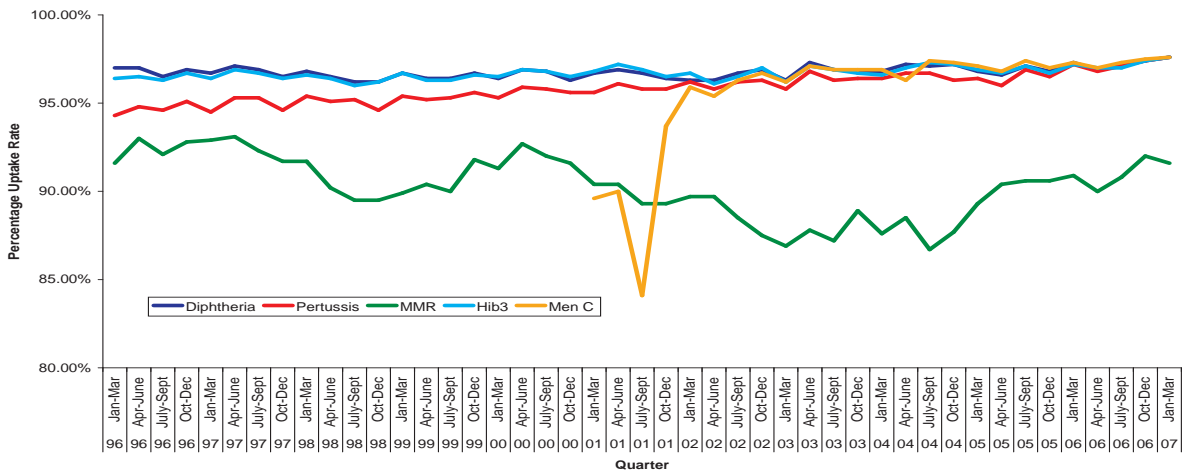


Table 6: Completed Primary Immunisations by 12 and 24 months of age (January – March 2007), UK

Country	% Coverage at 12 months				% Coverage at 24 months				
	Dip3	Pert3	Hib3	MenC	Dip3	Pert3	Hib3	MenC	MMR
England*	90.60%	90.60%	90.60%	90.30%	93.10%	93.10%	93.10%	93.20%	84.90%
Wales	95.30%	95.30%	95.30%	95.70%	96.90%	96.90%	96.90%	95.70%	88.20%
Scotland	94.00%	94.00%	94.00%	97.30%	97.60%	97.60%	97.60%	97.00%	92.20%
UK*	91.20%	91.20%	91.20%	91.20%	93.80%	93.80%	93.80%	93.70%	85.90%

Table 7: Vaccine Coverage at 5 years (January – March 2007), Northern Ireland

Board	Dip3	Pert3	Hib3	Dip4	MMR1	MMR2	MenC
Eastern	96.50%	96.50%	95.20%	85.20%	94.60%	84.30%	94.90%
Northern	98.00%	98.00%	97.20%	91.60%	95.90%	89.80%	97.20%
Southern	96.20%	96.20%	94.80%	88.00%	94.60%	85.50%	95.20%
Western	97.20%	97.20%	96.00%	91.60%	94.70%	87.20%	96.50%
NI	96.90%	96.90%	95.80%	88.60%	95.00%	86.50%	95.90%
England	93.00%	93.00%	92.40%	78.50%	87.10%	73.20%	91.90%
Wales	95.00%	95.00%	94.80%	85.90%	88.30%	78.30%	93.10%
Scotland	98.20%	98.20%	97.10%	86.70%	94.30%	82.70%	97.80%
UK	93.70%	93.70%	93.00%	79.90%	87.90%	74.70%	92.60%

*Estimates for England and the UK have been calculated, but caution is needed in using these data to evaluate the vaccination programme because of ongoing data quality concerns

- Uptake of Dip4 shows an increase of 0.7 percentage points
- Uptake of MMR2 shows an increase of 0.1 percentage points
- Uptake of other vaccines at 5 years have decreased by 0.4 – 0.6 percentage points compared to last quarter

Foodborne and Gastrointestinal Tract Infections: Laboratory Reports, Weeks 21-24

	Number of Reports received		Cumulative total	
	07/21-24	06/21-24	07/01-24	06/01-24
<i>Campylobacter</i>	97	112	346	367
<i>C. difficile</i> Toxin	75	109	584	747
<i>C. perfringens</i>	2	8	5	15
<i>E. coli</i> O 157	1	4	4	6
<i>Salmonella</i> total	6	13	55	44
<i>S. enteritidis</i> (PT 4)	0	8 (0)	10 (0)	16 (1)
<i>S. typhimurium</i> (DT 104)	0	1 (0)	14 (0)	13 (1)
<i>Salmonella</i> other	6	4	31	15
<i>Shigella</i>	0	0	6	3
<i>Cryptosporidium</i>	12	6	58	72
<i>Giardia</i>	0	0	2	7
Adenovirus (faeces)	3	13	55	117
Enterovirus (faeces)	0	0	7	1
Rotavirus	64	49	324	382
Norovirus	14	40	234	280

Salmonella (other than *enteritidis* or *typhimurium*):

<i>S. infantis</i>	1
<i>S. saint-paul</i>	1
<i>S. senftenberg</i>	1

Comment:

The following were associated with foreign travel:

Female, age 59 years, *Campylobacter* sp, South Africa

Male, age 52 years, *Campylobacter* sp, Majorca

Male, age 70 years, *Salmonella* sp, Singapore

With the exception of Salmonella and Enterovirus cumulative totals of laboratory reports of gastrointestinal infections to week 24 are exhibiting a decrease compared with the same period in 2006.

Respiratory Tract Infections: Laboratory Reports, Weeks 09-24

	Number of Reports received				Cumulative Total	
	07/09-12	07/13-16	07/17-20	07/21-24	07/01-24	06/01-24
<i>Coxiella burnetii</i>	0	0	0	0	2	9
<i>Mycoplasma pneumoniae</i>	1	0	1	0	5	51
Respiratory <i>Chlamydia</i>	0	0	2	0	7	28
<i>Adenovirus</i> (excluding faeces)	3	4	3	0	17	50
RSV	24	14	3	1	175	510

Contributing Laboratories

Altnagelvin	Mater
Antrim	Musgrave Park
Belfast City	Regional Mycology
Belvoir Park	Regional Virus
Causeway	Royal Victoria
Craigavon	Tyrone County
Daisyhill	Ulster
Erne	

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