

## MenC booster vaccine uptake in Ireland: 2016/2017

MenC (meningococcal group C) vaccine is recommended as part of the primary childhood immunisation programme. Immunity to meningococcal disease reduces over time so a booster dose is recommended now to provide additional protection. The National Immunisation Advisory Committee recommends vaccination with a booster MenC vaccine at 12-13 years of age. The MenC booster vaccine was introduced into the HSE schools immunisation programme in September 2014. This vaccine is offered to students in first year of second level schools and their age equivalents in special schools and home schooled. The vaccinations are provided by vaccination teams from the Local Health Offices (LHOs) who go into schools in their areas to vaccinate or provide vaccination clinics free of charge for children in the target cohorts. Vaccinations provided through the schools immunisation programme are entered into the School Immunisation System (SIS). Data on vaccination is inputted into the SIS database at a local level. The data presented here are the result of collaboration between HSE National Immunisation Office, School Immunisation Teams, Immunisation Coordinators, Immunisation System Administrators, Immunisation administrative staff and HPSC.

Please see the NIO website at [www.immunisation.ie](http://www.immunisation.ie) for detailed and current information on the all recommended vaccines including the primary childhood immunisation schedule and the school vaccination programme. MenC vaccine uptake data in children at 12 and 24 months of age is available on the Health Protection Surveillance Centre (HPSC) website at [www.hpsc.ie](http://www.hpsc.ie).

The target uptake of MenC booster is 95%.

### MenC booster vaccine uptake in Ireland during the 2016/2017 academic year

MenC booster vaccine uptake in the academic year 2016/2017, provided through the school immunisation programme and recorded on SIS, is presented in table 1.

The 2016/2017 figures presented in this summary are based on data recorded on SIS on the 09<sup>th</sup> January 2018. These figures are subject to change due to ongoing updating of data on the database.

#### Summary

For the 2016-2017 academic year

- National uptake was 83.9%
  - This is a decline of 3% compared to the 2015/2016 academic year
- There was some regional variation with uptake among the Community Healthcare Organisations ranging from 76.4% to 89.4%
- Uptake among the Local Health Offices ranged from 72.3% to 96.6%.

**Table 1. MenC booster vaccine, provided through the school immunisation programme, uptake data in the academic year 2016/2017 (data extracted from the School Immunisation System 09/01/2018)**

Community Healthcare Organisation (CHO)	Local Health Office/ CHO Total	First Years in second level and age equivalent* in special schools, home schooled and out of school			Outside Cohort	
		Denominator	Numbers Vaccinated with:	% Vaccinated with:	Denominator	Numbers Vaccinated with:
			MenC booster	MenC booster		MenC booster
CHO1	Cavan/Monaghan	1821	1552	85.2%	N/A	3
	Donegal	2300	2104	91.5%	N/A	26
	Sligo/Leitrim	1350	1236	91.6%	N/A	1
	CHO1 Total	5471	4892	89.4%	N/A	30
CHO2	Galway	3510	2857	81.4%	N/A	13
	Mayo	1764	1522	86.3%	N/A	5
	Roscommon	623	561	90.0%	N/A	1
	CHO2 Total	5897	4940	83.8%	N/A	19
CHO3	Clare	1508	1232	81.7%	N/A	13
	Limerick	1952	1645	84.3%	N/A	1
	Tipperary North/East Limerick	1921	1587	82.6%	N/A	6
	CHO3 Total	5381	4464	83.0%	N/A	20
CHO4	North Cork	1272	1062	83.5%	N/A	5
	North Lee - Cork	2698	2259	83.7%	N/A	8
	South Lee - Cork	2642	2276	86.1%	N/A	9
	West Cork	671	583	86.9%	N/A	0
	Kerry	2004	1661	82.9%	N/A	15
	CHO4 Total	9287	7841	84.4%	N/A	37
CHO5	Carlow/Kilkenny	2089	1882	90.1%	N/A	27
	Tipperary South	1120	1082	96.6%	N/A	4
	Waterford	1807	1600	88.5%	N/A	10
	Wexford	2404	1955	81.3%	N/A	14
	CHO5 Total	7420	6519	87.9%	N/A	55
CHO6	Dublin South	2042	1804	88.3%	N/A	15
	Dublin South East	1359	1196	88.0%	N/A	1
	Wicklow	1628	1312	80.6%	N/A	0
	CHO6 Total	5029	4312	85.7%	N/A	16
CHO7	Dublin South City	1593	1371	86.1%	N/A	1
	Dublin South West	1812	1410	77.8%	N/A	0
	Dublin West	2139	1684	78.7%	N/A	2
	Kildare/West Wicklow	3944	3284	83.3%	N/A	0
	CHO7 Total	9488	7749	81.7%	N/A	3
CHO8	Laois/Offaly	2420	2099	86.7%	N/A	3
	Longford/Westmeath	2259	1984	87.8%	N/A	2
	Louth	2204	1806	81.9%	N/A	1
	Meath	2964	2544	85.8%	N/A	7
CHO8 Total	9847	8433	85.6%	N/A	13	
CHO9	Dublin North West	2720	2086	76.7%	N/A	2
	Dublin North Central	1539	1112	72.3%	N/A	4
	Dublin North	3208	2508	78.2%	N/A	3
	CHO9 Total	7467	5706	76.4%	N/A	9
Home Schooled	139	10	7.2%	N/A	4	
Total of LHOs and Home Schooled	65426	54866	83.9%	N/A	206	
Out of School	N/A	0	N/A	N/A	0	
Total of LHOs and Home Schooled and Out of School	N/A	54866	N/A	N/A	206	

\*Age equivalents are those born between 01/09/2004 and 31/08/2005

Outside cohort refers to those who were vaccinated but who were outside the routine cohort for vaccination.

Local health office (LHO) refers to the LHO of the school. Therefore, in reports the LHOs of homeschooled and out of school children do not appear.

The denominator for second level schools was defined as the number of children on the school roll on 30th September 2016 for first year. The denominator for age equivalent to first years in second level schools was defined as children born between 01/09/2004 and 31/08/2005 on the school roll of special schools or registered with the Child and Family Agency Education Welfare Services on 30th September 2016. All the denominator data was entered onto the School Immunisation System by the relevant System Administrator.

N/A-Not applicable

Home schooled refers to children registered with the Child and Family Agency Education Welfare Services to be educated at home. These children were recorded on School Immunisation System and reported here as home schooled.

Out of school refers to vaccinated children who were neither enrolled in a second level school, special school nor registered with the Child and Family Agency Education Welfare Services as home schooled.

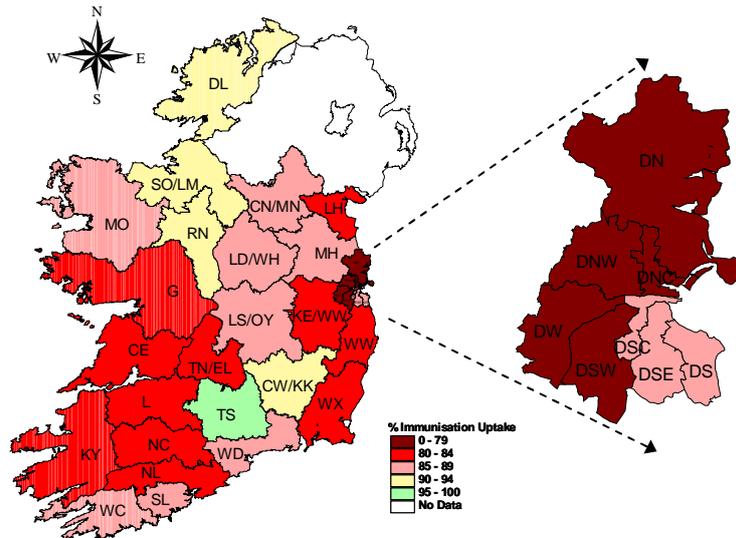


Figure 1. Uptake (%) of MenC booster vaccine, among first years of second level schools and their age equivalents in special schools and home schooled, by Local Health Office in the academic year 2016/2017. Data were extracted from the School Immunisation System on the 09/01/2018. LHOs in Dublin are highlighted separately for ease of viewing. Please see table 2 to translate LHO abbreviations.

MenC booster uptake data from 2014/2015 are available on the HPSC website.<sup>1</sup> MenC booster uptake by academic year is shown in Figure 2.

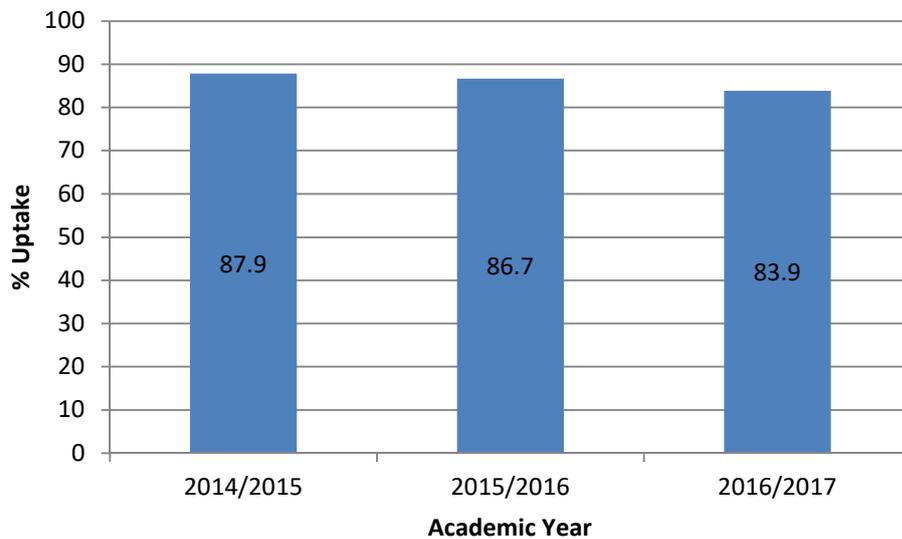


Figure 2. Uptake (%) of MenC booster vaccine by academic year among first years of second level schools and their age equivalents in special schools and home schooled.

## Internationally

In England coverage for the first cohorts to be routinely offered meningococcal ACWY (MenACWY) vaccine in schools from September 2015 (those born 1 September 2000 to 31 August 2001 [Year 10 in 2015/2016] and those born 1 September 2001 to 31 August 2002 [Year 9 in 2015/2016]) and evaluated up to the end August 2016 was 77.2% (Year 10) and 84.1% (Year 9).<sup>2</sup>

In Scotland, uptake of the teenage MenACWY booster among S3 pupils (year three of secondary school) in 2016/2017, the class year in which the vaccines are routinely offered, remained at a similar level to the previous year at 82%.<sup>3</sup>

In Wales coverage of MenACWY vaccine in 2015-16 school year 9 (13-14 year olds) and school year 11 (15-16 year olds) children remained stable at 81% and 78%, respectively. In the 2016-17 school year 9 and 11 groups, uptake was 83% and 80% respectively at time of their November 2017 report.<sup>4</sup>

In Northern Ireland MenACWY vaccine is offered in School Year 11 with those who missed vaccination offered it again in School Year 12. By the end of year 12 in 2016-17, 86.5% of young people (born 02/07/2000 to 01/07/2001) were immunised with the Men ACWY vaccine.<sup>5</sup>

In the United States, estimated coverage among 13-17 year olds of 1 dose of MenACWY vaccine was 82.2% in 2016.<sup>6</sup>

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Table 2. Local Health Office (LHO) abbreviations used in this report

<b>Local Health Office Abbreviations</b>	<b>Local Health Office</b>
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
NL	North Lee
RN	Roscommon
SL	South Lee
SO/LM	Sligo/Leitrim
TN/EL	Tipperary North /East Limerick
TS	South Tipperary
WC	West Cork
WD	Waterford
WX	Wexford
WW	Wicklow