

## Tdap vaccine uptake in Ireland: 2016/2017

The National Immunisation Advisory Committee recommends vaccination with Tdap (tetanus and low-dose diphtheria and acellular pertussis) vaccine at 11-14 years of age. The Tdap vaccine was introduced to the HSE schools immunisation programme on a phased basis from September 2011. The HSE extended the Tdap vaccination programme to all areas from September 2012. This vaccine is offered to students in first year of second level school and their age equivalents in special school and home schooled. The Tdap vaccine replaces the previous school based Td (Tetanus and low dose diphtheria) vaccination programme. The adolescent booster was changed because more cases of pertussis have been occurring in adolescents and adults due to the waning immunity that occurs over time, combined with a reduction in natural boosting. Please see the HSE National Immunisation Office (NIO) website at [www.immunisation.ie](http://www.immunisation.ie) for detailed and current information on the school vaccination programme.

The Tdap 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 NIO, School Immunisation Teams, Immunisation Coordinators, Immunisation System Administrators, Immunisation administrative staff and HPSC.

The target uptake of Tdap is 95%.

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

Tdap 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 data 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 on-going updating of data on the database.

#### Summary

For the 2016-2017 academic year

- National uptake was 85.8%
  - This is a decline of 3% compared to 2015/2016 academic year
- There was some regional variation with uptake among the Community Healthcare Organisations ranging from 78.1% to 91.1%
- Among the Local Health Offices uptake ranged from 73.6% to 94.5%

**Table 1. Tdap vaccine 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: Tdap	% Vaccinated with: Tdap	Denominator	Numbers Vaccinated with: Tdap
CHO1	Cavan/Monaghan	1821	1581	86.8%	N/A	8
	Donegal	2300	2172	94.4%	N/A	27
	Sligo/Leitrim	1350	1233	91.3%	N/A	3
	CHO1 Total	5471	4986	91.1%	N/A	38
CHO2	Galway	3510	2926	83.4%	N/A	10
	Mayo	1764	1564	88.7%	N/A	2
	Roscommon	623	569	91.3%	N/A	1
	CHO2 Total	5897	5059	85.8%	N/A	13
CHO3	Clare	1508	1307	86.7%	N/A	10
	Limerick	1952	1697	86.9%	N/A	3
	Tipperary North/East Limerick	1921	1715	89.3%	N/A	4
	CHO3 Total	5381	4719	87.7%	N/A	17
CHO4	North Cork	1272	1109	87.2%	N/A	0
	North Lee - Cork	2698	2340	86.7%	N/A	8
	South Lee - Cork	2642	2288	86.6%	N/A	11
	West Cork	671	583	86.9%	N/A	0
	Kerry	2004	1668	83.2%	N/A	7
	CHO4 Total	9287	7988	86.0%	N/A	26
CHO5	Carlow/Kilkenny	2089	1924	92.1%	N/A	22
	Tipperary South	1155	1092	94.5%	N/A	2
	Waterford	1807	1613	89.3%	N/A	11
	Wexford	2404	1999	83.2%	N/A	3
	CHO5 Total	7455	6628	88.9%	N/A	38
CHO6	Dublin South	2042	1798	88.1%	N/A	13
	Dublin South East	1371	1181	86.1%	N/A	2
	Wicklow	1628	1387	85.2%	N/A	0
	CHO6 Total	5041	4366	86.6%	N/A	15
CHO7	Dublin South City	1593	1415	88.8%	N/A	0
	Dublin South West	1812	1439	79.4%	N/A	1
	Dublin West	2139	1757	82.1%	N/A	4
	Kildare/West Wicklow	3944	3434	87.1%	N/A	0
	CHO7 Total	9488	8045	84.8%	N/A	5
CHO8	Laois/Offaly	2420	2140	88.4%	N/A	6
	Longford/Westmeath	2259	2035	90.1%	N/A	3
	Louth	2204	1804	81.9%	N/A	4
	Meath	2964	2588	87.3%	N/A	4
	CHO8 Total	9847	8567	87.0%	N/A	17
CHO9	Dublin North West	2720	2152	79.1%	N/A	2
	Dublin North Central	1539	1132	73.6%	N/A	5
	Dublin North	3208	2548	79.4%	N/A	6
	CHO9 Total	7467	5832	78.1%	N/A	13
Home Schooled		139	14	10.1%	N/A	4
Total of LHOs and Home Schooled		65473	56204	85.8%	N/A	186
Out of School		N/A	0	N/A	N/A	0
Total of LHOs and Home Schooled and Out of School		N/A	56204	N/A	N/A	186

\*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.

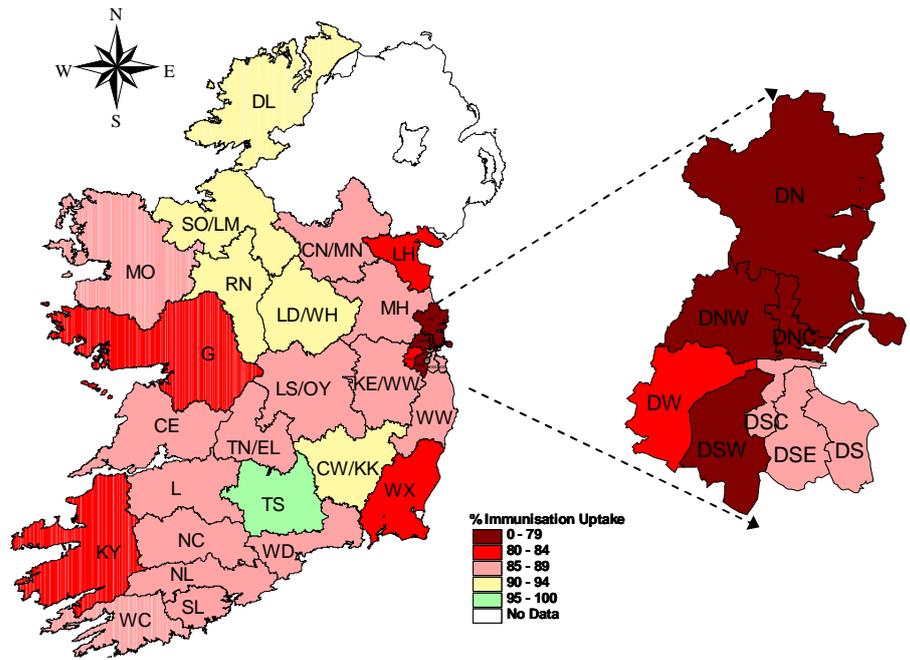
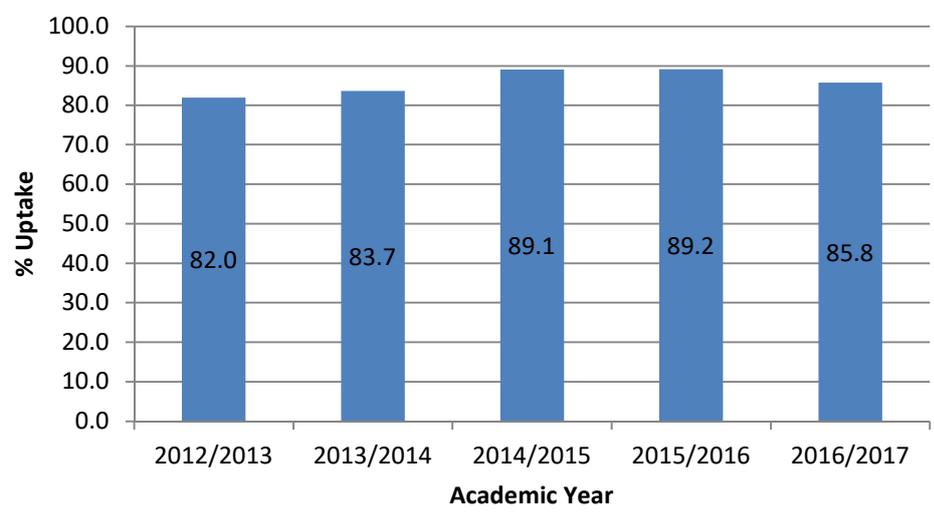


Figure 1. Uptake (%) of Tdap, among first years of second level schools and their age equivalents in special schools and home schooled, by Local Health Office in the academic year 2016/2017  
 Data were extracted from the School Immunisation System on the 09/01/2018. Data here are rounded to zero decimal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

Tdap uptake data from 2012/2013 are available on the HPSC website.<sup>1</sup> Tdap uptake by academic year is shown in Figure 2.



2012/2013 and 2013/2014 data are based on data reported by 29 and 31 LHOs, respectively, out of a total of 32 LHOs.

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

## Internationally

In Scotland, uptake of the teenage Td/IPV booster immunisations (boosts protection against tetanus, diphtheria and polio infection) 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 around 82%.<sup>2</sup>

In Wales, uptake of the Td/IPV teenage booster in the 2016/2017 School Year 10 group (14-15 years old) was 84%.<sup>3</sup>

In England, uptake of the Td/IPV teenage booster vaccine given up to the end of August 2016 was 83.5% among pupils in School Year 9 in 2015/2016 (born 1 September 2001 to 31 August 2002) and 74.9% among pupils in School Year 10 in 2015/2016 (born 1 September 2000 to 31 August 2001).<sup>2,4</sup>

In Northern Ireland, school health teams offer a Td/IPV booster in year 11. For most young people this will be the fifth and final dose that they require. There is a further opportunity to receive the Td/IPV vaccine in year 12 for those who have not yet completed the course. In 2016/2017, 85% of pupils received the booster by the end of year 12.<sup>5</sup>

In the United States, estimated coverage among 13-17 year olds of 1 dose of Tdap vaccine was 88.0% in 2016.<sup>6</sup>

## Acknowledgements

Many thanks to all HSE staff, National Immunisation Office staff, school immunisation teams, immunisation coordinators, immunisation system administrators, immunisation administrative staff, Department of Education and Skills staff, Child and Family Agency Education Welfare services staff, staff in all educational settings, parents and children/students, who implemented, participated in and supported this vaccination programme.

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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