

## Tdap vaccine uptake in Ireland: 2015/2016

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 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 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 <http://www.immunisation.ie> for detailed and current information on the school vaccination programme.

This is the third report of the comprehensive adolescent school based Tdap programme.

### Tdap vaccine uptake in Ireland during the 2015/2016 academic year

Tdap vaccine uptake in the academic year 2015/2016, provided through the school immunisation programme and recorded on SIS, is presented in table 1.

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 figures presented in this summary are based on data recorded on SIS on the 24<sup>th</sup> January 2017. These figures are subject to change due to on-going updating of data on the database.

#### Summary

For the 2015-2016 academic year

- National uptake was 89.2%
- There was some regional variation with uptake among the Community Healthcare Organisations ranging from 84.7% to 91.0%

Table 1. Tdap vaccine uptake data in the academic year 2015/2016 (data extracted from the School Immunisation System 24/01/2017)

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	1850	1566	84.6%	N/A	2
	Donegal	2238	2058	92.0%	N/A	0
	Sligo/Leitrim	1321	1220	92.4%	N/A	3
	CHO1 Total	5409	4844	89.6%	N/A	5
CHO2	Galway	3398	2934	86.3%	N/A	3
	Mayo	1694	1583	93.4%	N/A	1
	Roscommon	574	520	90.6%	N/A	0
	CHO2 Total	5666	5037	88.9%	N/A	4
CHO3	Clare	1533	1378	89.9%	N/A	5
	Limerick	1959	1737	88.7%	N/A	2
	Tipperary North/East Limerick	1949	1738	89.2%	N/A	5
	CHO3 Total	5441	4853	89.2%	N/A	12
CHO4	North Cork	1196	1108	92.6%	N/A	0
	North Lee - Cork	2698	2426	89.9%	N/A	0
	South Lee - Cork	2565	2318	90.4%	N/A	0
	West Cork	695	601	86.5%	N/A	1
	Kerry	1983	1709	86.2%	N/A	0
	CHO4 Total	9137	8162	89.3%	N/A	1
CHO5	Carlow/Kilkenny	2092	1951	93.3%	N/A	12
	Tipperary South	1159	1032	89.0%	N/A	7
	Waterford	1715	1615	94.2%	N/A	0
	Wexford	2311	2026	87.7%	N/A	1
	CHO5 Total	7277	6624	91.0%	N/A	20
CHO6	Dublin South	1928	1686	87.4%	N/A	26
	Dublin South East	1182	1120	94.8%	N/A	1
	Wicklow	1515	1366	90.2%	N/A	2
	CHO6 Total	4625	4172	90.2%	N/A	29
CHO7	Dublin South City	1482	1377	92.9%	N/A	1
	Dublin South West	1828	1515	82.9%	N/A	5
	Dublin West	2167	1867	86.2%	N/A	1
	Kildare/West Wicklow	3661	3479	95.0%	N/A	1
	CHO7 Total	9138	8238	90.2%	N/A	8
CHO8	Laos/Offaly	2358	2164	91.8%	N/A	2
	Longford/Westmeath	2211	2061	93.2%	N/A	0
	Louth	2135	1884	88.2%	N/A	1
	Meath	2815	2497	88.7%	N/A	12
	CHO8 Total	9519	8606	90.4%	N/A	15
CHO9	Dublin North West	2719	2295	84.4%	N/A	6
	Dublin North Central	1503	1287	85.6%	N/A	1
	Dublin North	3151	2660	84.4%	N/A	12
	CHO9 Total	7373	6242	84.7%	N/A	19
Home Schooled	100	6	6.0%	N/A	2	
Total of LHOs and Home Schooled	63685	56784	89.2%	N/A	115	
Out of School	N/A	0	N/A	N/A	7	
Total of LHOs and Home Schooled and Out of School	N/A	56784	N/A	N/A	122	

\*Age equivalents are those born between 01/09/2003 and 31/08/2004

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 2015 for first year. The denominator for age equivalent to first years in second level schools was defined as children born between 01/09/2003 and 31/08/2004 on the school roll of special schools or registered with the National Educational Welfare Board on 30th September 2015. 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 National Educational Welfare Board 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 National Educational Welfare Board as home schooled.

### **Internationally**

In Scotland, uptake of the teenage Td/IPV booster immunisations (boosts protection against diphtheria, tetanus and polio infection before entering adulthood) among S3 pupils (year three of secondary school) in 2015/2016, the class year in which the vaccines are routinely offered, remained at a similar level to the previous year at 81.8%.<sup>1</sup>

In Wales, uptake of the Td/IPV teenage booster in the 2015/2016 School Year 9 group (children reaching 14 years of age) was 81.1%.<sup>2</sup>

In the United States, coverage among 13-17 year olds of  $\geq 1$  dose of Tdap vaccine was 86.4% in 2015.<sup>3</sup>

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### **References**

1. Information Services Division Scotland. Teenage Booster Immunisation Statistics Scotland. Teenage Td/IPV Booster and Teenage MenACWY Immunisation Uptake Rates for School Year 2015/16. Available at <https://www.isdscotland.org/Health-Topics/Child-Health/Publications/2016-11-08/2016-11-08-Teenage-Booster-Immunisation-Report.pdf>. Accessed 25/01/2017.
2. Public Health Wales. Vaccine Uptake in Children in Wales July to September 2016. COVER 120 Wales November 2016. Available at [http://www2.nphs.wales.nhs.uk:8080/VaccinationsImmunisationProgsDocs.nsf/\(\\$All\)/8E453E7160ED194E8025806F0052590C/\\$File/Cov16q3%20\(Report%20120\)%20v1.pdf?OpenElement](http://www2.nphs.wales.nhs.uk:8080/VaccinationsImmunisationProgsDocs.nsf/($All)/8E453E7160ED194E8025806F0052590C/$File/Cov16q3%20(Report%20120)%20v1.pdf?OpenElement). Accessed 25/01/2017.
3. CDC. National, Regional, State, and Selected Local Area Vaccination Coverage Among Adolescents Aged 13–17 Years — United States, 2015. MMWR 65(33);850–858. Available at <https://www.cdc.gov/mmwr/volumes/65/wr/mm6533a4.htm>. Accessed 25/01/2017.