





# HPV vaccine uptake in Ireland: 2012/2013

### **Background**

Following a recommendation from the National Immunisation Advisory Committee, that human papillomavirus (HPV) vaccine should be given to 12 year old girls, a routine Health Service Executive (HSE) school HPV vaccination programme began in May 2010 for girls in the first year of second level school and age equivalent in non second level schools (see below for cohort details). The aim of the programme is to protect girls from their future risk of developing cervical cancer.

A catch-up campaign for girls in sixth year of second level schools and their age equivalents in non-second level schools (see below for cohort details) was added in the academic year 2011/2012, this catch-up campaign continued during the academic year 2012/2013.

Quadrivalent HPV vaccine, which protects against HPV types 6, 11, 16 and 18 associated with 70% of cervical cancer, is used in the school vaccination programme. A schedule of three vaccine doses given over a six month period was recommended in the academic year 2012/2013. The HPV vaccine does not protect against all cervical cancers, so regular cervical screening is still needed.

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 girls in the target cohorts. Please see the HSE-National Immunisation Office (NIO) website at <a href="https://www.immunisation.ie">www.immunisation.ie</a> for detailed and current information on the HPV school vaccination programme.

The target for uptake of three doses of vaccine for the routine HPV vaccination programme is >80% and the target for the catch-up programme is >60% uptake.

HPV vaccinations provided through the schools immunisation programme are entered onto a database. Here we report on the uptake of HPV vaccine, provided through the school immunisation programme and recorded on the database, in the academic year 2012/2013 in Ireland.

#### Cohort for vaccination in the academic year 2012/2013

The routine and catch-up cohorts for the 2012/2013 HPV vaccination programme as agreed with the Department of Education and Skills was as follows:

#### Routine HPV Vaccination programme

- > All girls in **first year of second level schools**
- > and their equivalents i.e. those who were born between 01/09/2000 and 31/08/2001
  - o attending special schools or
  - o registered with the National Educational Welfare Board to be home schooled.

#### Catch up HPV Vaccination Programme

- All girls in sixth year of second level schools
- and their equivalents i.e. those who were born between 01/09/1994 and 31/08/1995 and
  - o attending special schools or
  - o registered with the National Educational Welfare Board to be home schooled or
  - o attending Youthreach and Community Training Centres funded by the Department of Education and Skills.

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## **Definitions used in this report**

"at least stage 1" means a girl had a stage 1 HPV vaccine recorded on the database, this girl may or may not have had a stage 2 or a stage 3 HPV vaccine recorded on the database.

"at least stage 2" means a girl had a stage 2 HPV vaccine recorded on the database, she may or may not have had stage 1 or a stage 3 HPV vaccine recorded on the database.

"at least stage 3" means a girl had a stage 3 HPV vaccine recorded on the database, she may or may not have had a stage 1 or a stage 2 HPV vaccine recorded on the database.

Girls with at least stage 3 are considered to have completed a course of vaccination.

"Home Schooled" refers to girls registered with the National Educational Welfare Board to be educated at home. These girls were recorded on the database and reported here as "home schooled".

"Out of School" refers to vaccinated girls who were neither enrolled in a second level school, special school, Youthreach or Community Training Centre nor registered with National Educational Welfare Board as "home schooled".

Local Health Office (LHO) refers to the LHO the school is located in (it does not refer to the LHO the girl is resident in).

"Outside cohort" refers to those who were vaccinated but who were not in first year or sixth year of second level schools or their equivalents.

The **denominator** for girls in second level schools was defined as the number of girls on the school roll on 30<sup>th</sup> September 2012 for first year in the routine programme and for sixth year in the catch-up programme.

The **denominator** for age equivalent to first years in second level schools in the routine programme was defined as girls born between 01/09/2000 and 31/08/2001 on the school roll of special schools or registered with the National Educational Welfare Board on  $30^{th}$  September 2012.

The **denominator** for age equivalent to sixth years in second level schools in the catch-up programme was defined as girls born between 01/09/1994 and 31/08/1995 on the school roll of special schools or registered with the National Educational Welfare Board or attending Community Training Centres or Youthreach on 30<sup>th</sup> September 2012.

All the denominator data was entered on the immunisation database by the relevant System Administrator.

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#### **Results**

#### Ireland

#### Academic Year 2012/2013

The figures presented in this summary are based on data recorded on the immunisation system on the 25<sup>th</sup> June 2014. These figures are provisional and subject to change due to ongoing updating of data on the database.

#### First year girls in second level schools

In Ireland, 84.2% of girls in first year in second level schools were recorded as having received at least HPV stage 3 (considered to have completed a three dose course) (Table 1). This is a decline of 1.3% compared to the academic year 2011/2012 when 85.5% of girls in first year in second level schools were recorded as having received at least HPV stage  $3.1^{1}$  Among the 32 Local Health Offices (LHOs), in the academic year 2012/2013, uptake of at least HPV stage 3 ranged from 58.4% to 96.0%; with four recording  $\geq$ 90.0% uptake and four recording  $\leq$ 80.0% uptake.

#### Sixth year girls in second level schools

In Ireland, 67.4% of girls in sixth year in second level schools were recorded as having at least HPV stage 3 (Table 2). This is a decline of 4.1% compared to the academic year 2011/2012 when 71.5% of girls in sixth year in second level schools were recorded as having received at least HPV stage  $3.1^{-1}$  Among the 32 LHOs, in the academic year 2012/2013, uptake of HPV stage 3 ranged from 48.7% to 81.0%; with one recording  $\geq$ 80.0% uptake and seven recording  $\leq$ 60.0% uptake.

Some girls in the catch-up cohort were vaccinated privately by General Practitioners or other medical agencies following the licensing of HPV vaccines in 2006/2007 and prior to the announcement in early 2011 that there would be a HPV catch-up programme. These vaccinated girls would be included in the denominator data but not in the numbers vaccinated as they were not vaccinated as part of the school programme. Some LHOs have highlighted this issue: Donegal, Dublin North Central, Limerick, Louth, North Tipperary/East Limerick, Tipperary South and Wexford.

First and Sixth year second level equivalent cohorts in non-second level schools/Outside cohort/Out of school An additional 444 girls were recorded as having received at least HPV stage 3 (Table 3); of these 286 were recorded in the first year routine and sixth year catch up age equivalent cohorts in special schools, Youthreach, Community Training Centres, home schooled or out of school and 158 were recorded as being outside the cohorts recommended for vaccination.

The target cohort of girls in special schools, Community Training Centres, Youthreach, and Home Schooled were identified by birth cohort either equivalent to first years (born between 01/09/2000 and 31/08/2001) or equivalent to sixth years (born between 01/09/1994 and 31/08/1995). For operational reasons HSE vaccinating staff did not adhere strictly to these birth cohorts. Many of the vaccinations in these school settings were actually "outside cohort". The identification of denominator data for the target birth cohorts in these settings was difficult and staff focused on vaccinations rather than defining cohort numbers accurately. Therefore, this report gives the number of girls vaccinated in these settings reflecting activity in these settings rather than HPV vaccine uptake.

#### Total doses administered

A total of 132,925 administered vaccine doses were recorded in the academic year 2012/2013. This compares to 139,646 administered vaccine doses recorded in 2011/2012.

## Academic Years 2009/2010 and 2010/2011

Uptake for 2009/2010 and 2010/2011 cohorts of first year girls vaccinated from May 2010 was measured by manual reports and national uptake for the combined cohort was estimated at 81.9%.<sup>2</sup>

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## **International comparison**

Uptake of HPV vaccine in Ireland compares very favourably with estimates in other countries that have introduced and monitored HPV vaccination. <sup>3,4,5,6,7,8,9,10</sup>

#### **United Kingdom**

Girls aged 12-13 years of age

In England, 2012/2013 HPV coverage data of the third dose for the routine cohort of school year 8 girls (12- to 13-year-olds) at 31 August 2013 was 86.1%.

In Scotland, 82.0% of girls in second year of secondary school (S2) i.e. aged around 12 to 13 years in school year 2012/13 had completed the three dose course of HPV immunisations by the end of the school year. Data for the first four years of the HPV immunisation programme show that a number of girls in S2 complete their immunisation course after the end of the school year in which they were first offered the vaccine. Therefore, the reported uptake rates for girls in S2 during school year 2012/13 are expected to increase, for the third dose in particular. Updated uptake rates for these girls 'one year later' will be published in September 2014.<sup>4</sup>

In Wales, coverage of HPV vaccination in 2012/2013 School Year 8 group (reaching their 13<sup>th</sup> birthday between 01/09/2012 and 31/08/2013) was 86.1% for three doses.<sup>5</sup>

In Northern Ireland, for the 2011/2012 routine cohort HPV immunisation uptake rates for all three doses reached 88.1%.

#### Older girls

In England, HPV third dose coverage was 80.9% for those aged 13 to 14 years in the academic year 2010/2011, 84.4% for those aged 14 to 15 years in 2010/2011, 75.7% for those aged 15 to 16 years in 2010/2011, 70.8% for those aged 16 to 17 years in 2010/2011, and 48.1% for those aged 17 to 18 years in 2010/2011.

In Scotland, a catch-up programme for girls aged 13-17 years ran over three years (September 2008 – August 2011). Vaccine uptake for those girls in the catch-up cohort and still attending school was comparable to uptake of the routine year, at overall 87% uptake of three doses for all school years. Vaccine uptake for three doses of vaccine for those girls who had left school was significantly lower at 32%. Overall, the uptake of three doses of vaccine for all girls eligible (both in and out of school) was 65% uptake of three doses of vaccine.<sup>7</sup>

### Australia

In Australia, HPV three dose vaccination coverage for females turning 15 years of age in 2012 was 70.9%.

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## **Conclusions**

The uptake of HPV vaccine in Ireland is very encouraging and reflects the huge effort and support put in by all staff and schools involved in the school vaccination programme. It is particularly encouraging to see the very high retention of girls within the programme once they commence vaccination. Uptake of HPV vaccine compares very favourably with estimates in other countries that have introduced HPV vaccination and monitored uptake.

## Acknowledgements

Thank you to all HSE staff, Department of Education and Skills staff, staff in all educational settings, parents and girls, who implemented, participated in and supported the school HPV vaccination programme.

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Table 1

| Vaccine Type:       | HPV                                  |  |  |         |            |                            |         |         |  |
|---------------------|--------------------------------------|--|--|---------|------------|----------------------------|---------|---------|--|
| Academic Year:      | 2012 - 2013                          |  |  |         |            |                            |         |         |  |
| Cohort:             | First Year (routine HPV programme)** |  |  |         |            |                            |         |         |  |
| School Category:    | Second Level School                  |  |  |         |            |                            |         |         |  |
| Date Report Run:    | 25/06/2014                           |  |  |         |            |                            |         |         |  |
| •                   | 25/06/2014                           |  |  |         |            |                            |         |         |  |
| Uptake Statistics   |                                      |  |  |         |            |                            |         |         |  |
|                     |                                      |  |  | 20      | 012 - 2013 |                            |         |         |  |
|                     |                                      | First Year (routine HPV vaccination programme)** |  |         |            |                            |         |         |  |
|                     |                                      | Donominotor                                      |  |         |            |                            |         |         |  |
|                     |                                      | Denominator                                      | Numbers Vaccinated with:  At least At least At least |         |            | At least At least At least |         |         |  |
| HSE Region          | LHO/HSE Region                       |  | Stage 1  | Stage 2 | Stage 3    | Stage 1                    | Stage 2 | Stage 3 |  |
| Dublin Mid Leinster | Dublin South                         | 932  | 834  | 831     | 822        | 89.5%                      | 89.2%   | 88.2%   |  |
|                     | Dublin South East                    | 597  | 519  | 518     | 517        | 86.9%                      | 86.8%   | 86.6%   |  |
|                     | Dublin South City                    | 800  | 696  | 686     | 668        | 87.0%                      | 85.8%   | 83.5%   |  |
|                     | Dublin South West                    | 758  | 687  | 678     | 660        | 90.6%                      | 89.4%   | 87.1%   |  |
|                     | Dublin West                          | 947  | 812  | 806     | 761        | 85.7%                      | 85.1%   | 80.4%   |  |
|                     | Kildare/West Wicklow                 | 1575   | 1387   | 1383    | 1361       | 88.1%                      | 87.8%   | 86.4%   |  |
|                     | Wicklow                              | 724  | 646  | 640     | 635        | 89.2%                      | 88.4%   | 87.7%   |  |
|                     | Laois/Offaly                         | 942  | 849  | 844     | 839        | 90.1%                      | 89.6%   | 89.1%   |  |
|                     | Longford/Westmeath                   | 1049   | 925  | 919     | 896        | 88.2%                      | 87.6%   | 85.4%   |  |
|                     | Total Dublin Mid Leinster            | 8324   | 7355   | 7305    | 7159       | 88.4%                      | 87.8%   | 86.0%   |  |
| Dublin North East   | Dublin North                         | 1479   | 1355   | 1342    | 1292       | 91.6%                      | 90.7%   | 87.4%   |  |
|                     | Dublin North Central                 | 651  | 558  | 552     | 532        | 85.7%                      | 84.8%   | 81.7%   |  |
|                     | Dublin North West                    | 1331   | 969  | 956     | 912        | 72.8%                      | 71.8%   | 68.5%   |  |
|                     | Cavan/Monaghan                       | 892  | 542  | 535     | 521        | 60.8%                      | 60.0%   | 58.4%   |  |
|                     | Louth                                | 1019   | 871  | 861     | 842        | 85.5%                      | 84.5%   | 82.6%   |  |
|                     | Meath                                | 1252   | 1091   | 1082    | 1058       | 87.1%                      | 86.4%   | 84.5%   |  |
|                     | Total Dublin North East              | 6624   | 5386   | 5328    | 5157       | 81.3%                      | 80.4%   | 77.9%   |  |
| South               | North Cork                           | 610  | 536  | 530     | 525        | 87.9%                      | 86.9%   | 86.1%   |  |
|                     | North Lee - Cork                     | 1157   | 1028   | 1023    | 941        | 88.9%                      | 88.4%   | 81.3%   |  |
|                     | South Lee - Cork                     | 1122   | 975  | 962     | 940        | 86.9%                      | 85.7%   | 83.8%   |  |
|                     | West Cork                            | 357  | 282  | 282     | 278        | 79.0%                      | 79.0%   | 77.9%   |  |
|                     | Kerry                                | 930  | 833  | 826     | 804        | 89.6%                      | 88.8%   | 86.5%   |  |
|                     | Carlow/Kilkenny                      | 973  | 910  | 896     | 862        | 93.5%                      | 92.1%   | 88.6%   |  |
|                     | Tipperary South                      | 582  | 553  | 550     | 529        | 95.0%                      | 94.5%   | 90.9%   |  |
|                     | Waterford                            | 756  | 732  | 729     | 723        | 96.8%                      | 96.4%   | 95.6%   |  |
|                     | Wexford                              | 1122   | 951  | 946     | 922        | 84.8%                      | 84.3%   | 82.2%   |  |
|                     | Total South                          | 7609   | 6800   | 6744    | 6524       | 89.4%                      | 88.6%   | 85.7%   |  |
| West                | Donegal                              | 1152   | 1018   | 1012    | 1004       | 88.4%                      | 87.8%   | 87.2%   |  |
| West                | Sligo/Leitrim                        | 628  | 559  | 557     | 551        | 89.0%                      | 88.7%   | 87.7%   |  |
|                     | Galway                               | 1659   | 1341   | 1328    | 1297       | 80.8%                      | 80.0%   | 78.2%   |  |
|                     | Mayo                                 | 848  | 764  | 759     | 754        | 90.1%                      | 89.5%   | 88.9%   |  |
|                     | Roscommon                            | 300  | 292  | 290     | 288        | 97.3%                      | 96.7%   | 96.0%   |  |
|                     | Clare                                | 765  | 697  | 691     | 680        | 91.1%                      | 90.3%   | 88.9%   |  |
|                     | Limerick                             | 912  | 818  | 809     | 789        | 89.7%                      | 88.7%   | 86.5%   |  |
|                     | Tipperary North/East                 | 990  | 910  | 904     | 893        | 91.9%                      | 91.3%   | 90.2%   |  |
|                     | Total West                           | 7254   | 6399   | 6350    | 6256       | 88.2%                      | 87.5%   | 86.2%   |  |
|                     |                                      |  |  |         |            |                            |         |         |  |
| Total               |                                      | 29811  | 25940  | 25727   | 25096      | 87.0%                      | 86.3%   | 84.2%   |  |
| Total               |                                      | 470 I I  | 20740  | 20121   | ZJU70      | 07.070                     | 00.370  | 04.270  |  |

Local health office (LHO) refers to the LHO of the school.

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<sup>&</sup>quot;At least stage 1" means a person had a stage 1 recorded on the database, this person may or may not have had a stage 2 or a stage 3 recorded. Similarily, "at least stage 2" means a person had a stage 2 recorded on the database, they may or may not have had stage 1 or a stage 3 recorded. Similarily, "at least stage 3" means a person had a stage 3 recorded on the database, they may or may not have had stage 1 or a stage 2 recorded.

<sup>\*\*</sup>Please see Background section of document for details of cohorts recommended HPV vaccine during the academic year 2012/2013.

Table 2

| /accine Type:      | HPV                              |  |                            |             |                           |                    |         |         |  |
|--------------------|----------------------------------|--|----------------------------|-------------|---------------------------|--------------------|---------|---------|--|
| Academic Year:     | 2012 - 2013                      |  |                            |             |                           |                    |         |         |  |
| ohort              | Sixth Year (catch up campaign)** |  |                            |             |                           |                    |         |         |  |
| School Category:   | Second Level School              |  |                            |             |                           |                    |         |         |  |
| Date Report Run:   | 25/06/2014                       |  |                            |             |                           |                    |         |         |  |
| Iptake Statistics  |                                  |  |                            |             |                           |                    |         |         |  |
| piuno otamonos     |                                  | _  |                            |             | 2012 201                  | 2                  |         |         |  |
|                    |                                  | 2012 - 2013 Sixth Year (catch up campaign)** |                            |             |                           |                    |         |         |  |
|                    |                                  |  |                            |             |                           |                    |         |         |  |
|                    |                                  |  |                            |             |                           |                    |         |         |  |
|                    | LUO/USE Dogion                   | Denominator                                  | Number                     | rs Vaccinat | ed with:                  | % Vaccinated with: |         |         |  |
| USE Degion         |                                  |  | At least At least At least |             | At least At least At leas |                    |         |         |  |
| HSE Region         | LHO/HSE Region                   |  | Stage 1                    | Stage 2     | Stage 3                   | Stage 1            | Stage 2 | Stage 3 |  |
| ublin Mid Leinster | Dublin South                     | 837  | 526                        | 519         | 505                       | 62.8%              | 62.0%   | 60.3%   |  |
|                    | Dublin South East                | 550  | 353                        | 344         | 335                       | 64.2%              | 62.5%   | 60.9%   |  |
|                    | Dublin South City                | 843  | 604                        | 593         | 557                       | 71.6%              | 70.3%   | 66.1%   |  |
|                    | Dublin South West                | 677  | 563                        | 529         | 477                       | 83.2%              | 78.1%   | 70.5%   |  |
|                    | Dublin West                      | 742  | 513                        | 478         | 415                       | 69.1%              | 64.4%   | 55.9%   |  |
|                    | Kildare/West Wicklow             | 1271   | 1029                       | 1016        | 975                       | 81.0%              | 79.9%   | 76.7%   |  |
|                    | Wicklow                          | 572  | 474                        | 472         | 450                       | 82.9%              | 82.5%   | 78.7%   |  |
|                    | Laois/Offaly                     | 894  | 638                        | 625         | 603                       | 71.4%              | 69.9%   | 67.4%   |  |
|                    | Longford/Westmeath               | 823  | 627                        | 619         | 605                       | 76.2%              | 75.2%   | 73.5%   |  |
|                    | Total Dublin Mid Leinster        | 7209   | 5327                       | 5195        | 4922                      | 73.9%              | 72.1%   | 68.3%   |  |
| ublin North East   | Dublin North                     | 1180   | 684                        | 660         | 605                       | 58.0%              | 55.9%   | 51.3%   |  |
|                    | Dublin North Central             | 668  | 438                        | 427         | 389                       | 65.6%              | 63.9%   | 58.2%   |  |
|                    | Dublin North West                | 1071   | 755                        | 718         | 642                       | 70.5%              | 67.0%   | 59.9%   |  |
|                    | Cavan/Monaghan                   | 797  | 478                        | 469         | 454                       | 60.0%              | 58.8%   | 57.0%   |  |
|                    | Louth                            | 869  | 457                        | 442         | 423                       | 52.6%              | 50.9%   | 48.7%   |  |
|                    | Meath                            | 970  | 667                        | 660         | 650                       | 68.8%              | 68.0%   | 67.0%   |  |
|                    | Total Dublin North East          | 5555   | 3479                       | 3376        | 3163                      | 62.6%              | 60.8%   | 56.9%   |  |
| South              | North Cork                       | 464  | 371                        | 363         | 348                       | 80.0%              | 78.2%   | 75.0%   |  |
|                    | North Lee - Cork                 | 1075   | 817                        | 803         | 774                       | 76.0%              | 74.7%   | 72.0%   |  |
|                    | South Lee - Cork                 | 1031   | 762                        | 752         | 710                       | 73.9%              | 72.9%   | 68.9%   |  |
|                    | West Cork                        | 340  | 215                        | 213         | 211                       | 63.2%              | 62.6%   | 62.1%   |  |
|                    | Kerry                            | 923  | 733                        | 715         | 689                       | 79.4%              | 77.5%   | 74.6%   |  |
|                    | Carlow/Kilkenny                  | 815  | 649                        | 637         | 599                       | 79.6%              | 78.2%   | 73.5%   |  |
|                    | Tipperary South                  | 519  | 354                        | 342         | 322                       | 68.2%              | 65.9%   | 62.0%   |  |
|                    | Waterford                        | 703  | 551                        | 546         | 539                       | 78.4%              | 77.7%   | 76.7%   |  |
|                    | Wexford                          | 972  | 689                        | 681         | 643                       | 70.9%              | 70.1%   | 66.2%   |  |
|                    | Total South                      | 6842   | 5141                       | 5052        | 4835                      | 75.1%              | 73.8%   | 70.7%   |  |
| West               | Donegal                          | 947  | 763                        | 758         | 739                       | 80.6%              | 80.0%   | 78.0%   |  |
|                    | Sligo/Leitrim                    | 526  | 438                        | 433         | 426                       | 83.3%              | 82.3%   | 81.0%   |  |
|                    | Galway                           | 1344   | 1113                       | 1100        | 1046                      | 82.8%              | 81.8%   | 77.8%   |  |
|                    | Mayo                             | 775  | 591                        | 582         | 568                       | 76.3%              | 75.1%   | 73.3%   |  |
|                    | Roscommon                        | 348  | 236                        | 233         | 229                       | 67.8%              | 67.0%   | 65.8%   |  |
|                    | Clare                            | 647  | 476                        | 467         | 461                       | 73.6%              | 72.2%   | 71.3%   |  |
|                    | Limerick                         | 921  | 659                        | 637         | 606                       | 71.6%              | 69.2%   | 65.8%   |  |
|                    | Tipperary North/East             | 876  | 529                        | 524         | 511                       | 60.4%              | 59.8%   | 58.3%   |  |
|                    | Total West                       | 6384   | 4805                       | 4734        | 4586                      | 75.3%              | 74.2%   | 71.8%   |  |

Local health office (LHO) refers to the LHO of the school.

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<sup>&</sup>quot;At least stage 1" means a person had a stage 1 recorded on the database, this person may or may not have had a stage 2 or a stage 3 recorded. Similarily, "at least stage 2" means a person had a stage 2 recorded on the database, they may or may not have had stage 1 or a stage 3 recorded. Similarily, "at least stage 3" means a person had a stage 3 recorded on the database, they may or may not have had stage 1 or a stage 2 recorded.

<sup>\*\*</sup>Please see Background section of document for details of cohorts recommended HPV vaccine during the academic year 2012/2013.

Table 3

| Vaccine Type:       | HPV  |                                      |            |             |  |  |  |
|---------------------|--|--------------------------------------|------------|-------------|--|--|--|
| Academic Year:      | 2012 - 2013  |                                      |            |             |  |  |  |
| ohort and           | Recommended cohorts** for vaccination and those outside cohort in  |                                      |            |             |  |  |  |
| chool Category:     | special schools, youthreach, community training centres, home<br>schooled and out of school and those outside cohort in second level<br>schools. |                                      |            |             |  |  |  |
|                     |  |                                      |            |             |  |  |  |
|                     |  |                                      |            |             |  |  |  |
| Date Report Run:    | 25/06/2014   |                                      |            |             |  |  |  |
| lptake Statistics   |  |                                      |            |             |  |  |  |
|                     |  |                                      |            |             |  |  |  |
|                     | Recommended cohorts** for<br>vaccination and those outside<br>cohort in special schools,<br>youthreach, community trainin                        |                                      |            |             |  |  |  |
|                     |  |                                      |            |             |  |  |  |
|                     |  |                                      |            |             |  |  |  |
|                     |  | centres,                             | home schoo | led and out |  |  |  |
|                     | of school and those outside cohort in second level school  |                                      |            |             |  |  |  |
|                     |  | cohort in second level schools with: |            |             |  |  |  |
|                     |  | At least At least At least           |            |             |  |  |  |
| LICE Decision       | LUC/USE Darion   | Stage 1                              | Stage 2    | Stage 3     |  |  |  |
| HSE Region          | LHO/HSE Region   |                                      |            |             |  |  |  |
| Oublin Mid Leinster | Dublin South   | 19                                   | 17         | 13          |  |  |  |
|                     | Dublin South East  | 2                                    | 2          | 2           |  |  |  |
|                     | Dublin South City  | 9                                    | 4          | 4           |  |  |  |
|                     | Dublin South West  | 18                                   | 15         | 11          |  |  |  |
|                     | Dublin West  | 18                                   | 16         | 16          |  |  |  |
|                     | Kildare/West Wicklow   | 32                                   | 31         | 29          |  |  |  |
|                     | Wicklow  | 10                                   | 9          | 8           |  |  |  |
|                     | Laois/Offaly   | 10                                   | 9          | 8           |  |  |  |
|                     | Longford/Westmeath   | 18                                   | 11         | 10          |  |  |  |
|                     | Total Dublin Mid Leinster  | 136                                  | 114        | 101         |  |  |  |
| Oublin North East   | Dublin North   | 5                                    | 2          | 1           |  |  |  |
|                     | Dublin North Central   | 23                                   | 15         | 6           |  |  |  |
|                     | Dublin North West  | 31                                   | 30         | 29          |  |  |  |
|                     | Cavan/Monaghan   | 1                                    | 1          | 1           |  |  |  |
|                     | Louth  | 11                                   | 10         | 10          |  |  |  |
|                     | Meath  | 20                                   | 19         | 14          |  |  |  |
|                     | Total Dublin North East  | 91                                   | 77         | 61          |  |  |  |
| South               | North Cork   | 9                                    | 9          | 9           |  |  |  |
|                     | North Lee - Cork   | 37                                   | 35         | 32          |  |  |  |
|                     | South Lee - Cork   | 22                                   | 19         | 15          |  |  |  |
|                     | West Cork  | 0                                    | 0          | 0           |  |  |  |
|                     | Kerry  | 12                                   | 11         | 10          |  |  |  |
|                     | Carlow/Kilkenny  | 39                                   | 36         | 31          |  |  |  |
|                     | Tipperary South  | 12                                   | 12         | 12          |  |  |  |
|                     | Waterford  | 34                                   | 29         | 26          |  |  |  |
|                     | Wexford  | 35                                   | 30         | 24          |  |  |  |
|                     | Total South  | 200                                  | 181        | 159         |  |  |  |
| Vest                | Donegal  | 15                                   | 14         | 13          |  |  |  |
| 1031                | Sligo/Leitrim  | 7                                    | 6          | 6           |  |  |  |
|                     | Galway   | 21                                   | 20         | 15          |  |  |  |
|                     |  | 13                                   | 13         | 13          |  |  |  |
|                     | Mayo   |                                      |            |             |  |  |  |
|                     | Roscommon  | 6<br>17                              | 6          | 10          |  |  |  |
|                     |  | 17                                   | 14         | 10          |  |  |  |
|                     | Limerick   | 54                                   | 50         | 45          |  |  |  |
|                     | Tipperary North/East Limerick  |                                      | 17         | 14          |  |  |  |
|                     | Total West   | 152                                  | 140        | 120         |  |  |  |
|                     |  |                                      |            |             |  |  |  |
| lome Schooled       |  | 3                                    | 2          | 2           |  |  |  |
|                     |  |                                      |            |             |  |  |  |
| otal of LHOs and Ho | me Schooled  | 582                                  | 514        | 443         |  |  |  |
| out of School       |  | 1                                    | 1          | 1           |  |  |  |
| The second second   | me Schooled and Out of School  | 583                                  | 515        | 444         |  |  |  |

Local health office (LHO) refers to the LHO of the school. Therefore, in reports the LHOs of

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homeschooled and out of school children do not appear.

"At least stage 1" means a person had a stage 1 recorded on the database, this person may or may not have had a stage 2 or a stage 3 recorded.

Similarily, "at least stage 2" means a person had a stage 2 recorded on the database, they

may or may not have had stage 1 or a stage 3 recorded.

Similarily, "at least stage 3" means a person had a stage 3 recorded on the database, they may or may not have had stage 1 or a stage 2 recorded.

"Outside cohort" refers to those who were vaccinated but who were not in first year or sixth

year of second level schools or their equivalents.

\*\* Please see Background section of document for details of cohorts recommended HPV vaccine during the academic year 2011/2012.

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