

# Publication Report



## Provisional HPV Immunisation Uptake Statistics

Year 3 of the HPV Immunisation Programme (2010/11)

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## About ISD

Scotland has some of the best health service data in the world combining high quality, consistency, national coverage and the ability to link data to allow patient based analysis and follow up.

Information Services Division (ISD) is a business operating unit of NHS National Services Scotland and has been in existence for over 40 years. We are an essential support service to NHSScotland and the Scottish Government and others, responsive to the needs of NHSScotland as the delivery of health and social care evolves.

**Purpose:** To deliver effective national and specialist intelligence services to improve the health and wellbeing of people in Scotland.

**Mission:** Better Information, Better Decisions, Better Health

**Vision:** To be a valued partner in improving health and wellbeing in Scotland by providing a world class intelligence service.

## Official Statistics

Information Services Division (ISD) is the principal and authoritative source of statistics on health and care services in Scotland. ISD is designated by legislation as a producer of 'Official Statistics'. Our official statistics publications are produced to a high professional standard and comply with the Code of Practice for Official Statistics. The Code of Practice is produced and monitored by the UK Statistics Authority which is independent of Government. Under the Code of Practice, the format, content and timing of statistics publications are the responsibility of professional staff working within ISD.

ISD's statistical publications are currently classified as one of the following:

- National Statistics (ie assessed by the UK Statistics Authority as complying with the Code of Practice)
- National Statistics (ie legacy, still to be assessed by the UK Statistics Authority)
- Official Statistics (ie still to be assessed by the UK Statistics Authority)
- other (not Official Statistics)

Further information on ISD's statistics, including compliance with the Code of Practice for Official Statistics, and on the UK Statistics Authority, is available on the [ISD website](#).

## Introduction

The Human Papilloma Virus (HPV) vaccine is designed to protect against the two types of HPV that cause around 70% of cases of cervical cancer. Girls need three doses over a period of six months to give them the best protection. The HPV vaccine does not protect against all cervical cancers, so regular cervical screening is still important.

The HPV Immunisation Programme in Scotland started on 1 September 2008. The programme aims to protect girls by routinely immunising them at around 12-13 years of age, in second year of secondary school, through a school-based programme.

A catch-up campaign for older girls is being carried out over a three-year period from September 2008 and applies to girls who were aged 13 to under 18 on 1 September 2008. In the first year of the programme (2008/09), girls in the catch-up cohort who were in fifth and sixth year of secondary school, and girls of equivalent age who had left school, were offered the vaccine. In the second year of the programme (2009/10), girls who were in fourth and fifth year of secondary school, and new school leavers, were offered HPV immunisation. In the third and last year of the catch-up programme, which runs from 1 September 2010 to 31 August 2011, girls in the eligible age group who have not yet taken up the offer or who have not completed the course, have the opportunity to do so.

This release presents:

1. Interim statistics on uptake of the first and second doses of HPV immunisation, for girls in school offered HPV immunisation in Year 3 of the programme (girls in S2 in school year 2010/11).
2. Updated uptake rates for girls offered HPV immunisation in Year 2 of the programme including, for the first time, uptake rates of the third dose for the new school leavers' catch-up cohort.
3. A snap-shot of HPV immunisation coverage for girls resident in Scotland as at 31 December 2010, by year of birth.

Data are presented by NHS Board and Community Health Partnership (CHP).

Immunisation statistics in Scotland are published outwith the standard ISD timetable for National Statistics publications. This is so that [childhood immunisation uptake rates](#) are available at the same time as comparable statistics for other parts of the UK, published by the [Health Protection Agency](#).

## Key points

- Interim statistics for Year 3 of the HPV immunisation programme, which runs from 1 September 2010 to 31 August 2011, show uptake rates for girls currently in S2 in school year 2010/11 have already reached 91.2% for the first dose and 85.5% for the second dose. Uptake rates are likely to increase slightly, for the second dose in particular, as some girls may have missed the early HPV vaccinations sessions in school and have therefore started their course of HPV vaccinations later in the school year. Updated uptake rates for these girls, including uptake rates for the third dose, will be published in September 2011.

## Results and Commentary

### Interim statistics for Year 3 of the HPV immunisation programme

(1 Sept 2010 to 31 Aug 2011)

Interim statistics on uptake of the first and second doses for girls in S2 who are being offered the vaccine during the current school year 2010/11 is 91.2 % for the first dose and 85.5% for the second dose. These interim figures relate to reported uptake by mid-February 2011. Uptake rates are likely to increase slightly, for the second dose in particular, as some girls may have missed the early HPV vaccinations sessions in school and have therefore started their course of HPV vaccinations later in the school year. Updated uptake rates for these girls, including uptake rates for the third dose, will be published in September 2011.

### Interim HPV immunisation uptake rates by mid-February 2011, for girls in second year of secondary school (S2) in school year 2010/11

NHS Board	Number of girls in cohort <sup>2</sup>	Number 1st dose	% uptake of 1st dose	Number 2nd dose	% uptake of 2nd dose	Number 3rd dose	% uptake of 3rd dose
Ayrshire and Arran	2 073	1 913	92.3	1 844	89.0	..	..
Borders	677	610	90.1	549	81.1	..	..
Dumfries and Galloway	824	758	92.0	650	78.9	..	..
Fife	1 979	1 781	90.0	1 674	84.6	..	..
Forth Valley	1 729	1 594	92.2	1 527	88.3	..	..
Grampian	3 011	2 747	91.2	2 612	86.7	..	..
Greater Glasgow & Clyde <sup>3</sup>	6 618	6 090	92.0	5 788	87.5	..	..
Highland	1 726	1 542	89.3	1 455	84.3	..	..
Lanarkshire <sup>3</sup>	3 388	3 115	91.9	2 968	87.6	..	..
Lothian	4 189	3 759	89.7	3 304	78.9	..	..
Orkney	104	90	86.5	87	83.7	..	..
Shetland	162	145	89.5	130	80.2	..	..
Tayside	2 272	2 086	91.8	2 015	88.7	..	..
Western Isles	133	115	86.5	100	75.2	..	..
<b>Scotland<sup>4</sup></b>	<b>28 928</b>	<b>26 386</b>	<b>91.2</b>	<b>24 744</b>	<b>85.5</b>	..	..

Source: CHSP School/SIRS (February 2011)

1. Uptake rates are based on immunisations recorded on the CHSP School system and SIRS as at 14 February 2011.
2. Girls recorded on CHSP-School as being in class year S2 as at 14 February 2011. These girls are in the second year of secondary school and are around 12 to 13 years of age.
3. NHS Lanarkshire is delivering the HPV programme to schools in Cambuslang and Rutherglen, however HPV data for Cambuslang and Rutherglen are recorded/shown under NHS Greater Glasgow & Clyde on CHSP School.
4. NHS Argyll & Clyde ceased to exist on 31st March 2006 and the administration was split between two sub-areas that now fall under the administration of NHS Greater Glasgow and Clyde and NHS Highland respectively. For the calculation of uptake rates, HPV immunisation data recorded on CHSP School under the former NHS Argyll & Clyde are allocated to their current NHS Board area using child's postcode. There are a small number of records which do not have a postcode recorded and therefore for statistical purposes, NHS Board is unknown. These records are included in the Scotland cohort and uptake rates and therefore the sum of the cohorts for all NHS Boards does not equate to the total cohort for Scotland.

.. Not available. Statistics on uptake of the 3rd dose of HPV vaccine will be published after the end of school year 2010/11.

For more information on HPV uptake rates for Year 3 of the HPV Immunisation Programme (2010/11) see:

[Interim HPV uptake rates for Year 3 \(2010/11\) by NHS Board, as at 14/02/11](#)

[Interim HPV uptake rates for Year 3 \(2010/11\) by CHP, as at 14/02/11](#)

## **Updated statistics for Year 2 of the HPV immunisation programme**

(1 Sept 2009 to 31 Aug 2010)

- Uptake of HPV immunisation amongst girls in S2 in 2009/10 (routine cohort) is 93.5% for the first dose, 92.2% for the second dose and 90.1% for the third dose.
- Uptake amongst girls in S4 in 2009/10 (catch up cohort) is 91.2% for the first dose, 89.0% for the second dose and 84.3% for the third dose.
- Uptake amongst girls in S5 in 2009/10 (catch up cohort) is 91.3% for the first dose, 89.2% for the second dose and 84.7% for the third dose.
- Overall, amongst girls in school in S2, S4 and S5 in 2009/10 (routine and catch up cohorts), uptake of HPV immunisation is 92.0% for the first dose, 90.2% for the second dose and 86.4% for the third dose.
- Uptake of HPV immunisation by mid-February 2011 for girls in the new school leavers' catch-up cohort who were eligible for HPV immunisation in Year 2 of the programme is 49.3% for the first dose, 41.0% for the second dose and 28.9% for the third dose. The catch-up programme is being carried out over a three year period from 1 September 2008. As NHS Boards are at different stages in their catch-up programme for school leavers this will affect the uptake rates reported in some areas.
- Uptake of HPV immunisation by mid-February 2011 for all girls in the catch-up cohort eligible for immunisation during Year 2 of the programme (girls in S4, S5 in school year 2009/10 and girls in the new school leavers catch up cohort) is 84.6% for the first dose, 81.4% for the second dose and 75.6% for the third dose. In the third and last year of the catch-up programme, which runs from 1 September 2010 to 31 August 2011, girls in the eligible age group who have not yet taken up the offer of immunisation or who have not completed the course, have the opportunity to do so. Final uptake rates for all girls in the catch-up cohort will be published following the end of the catch-up programme.

For more information on HPV uptake rates for Year 2 of the HPV Immunisation Programme (2009/10) see:

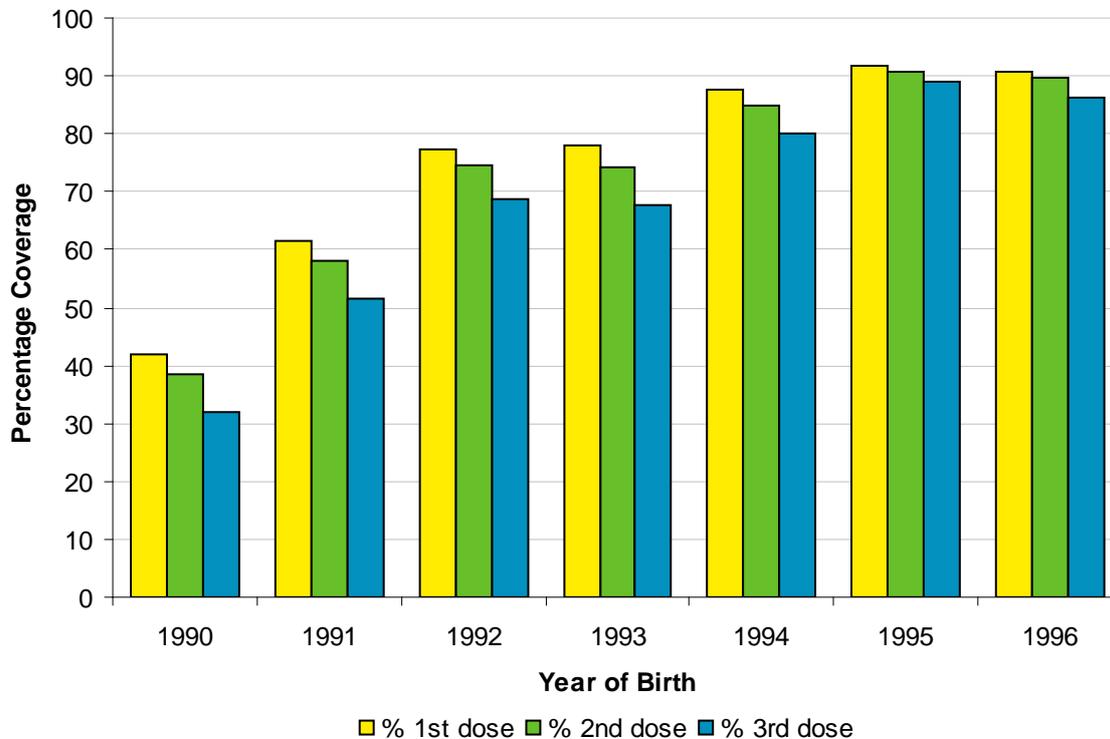
[HPV uptake rates for Year 2 \(2009/10\) by NHS Board, as at 14/02/11](#)

[HPV uptake rates for Year 2 \(2009/10\) by CHP, as at 14/02/11](#)

[Previously published HPV statistics](#) are also available.

## HPV Immunisation Coverage by Year of Birth

### HPV Immunisation Coverage for Girls Resident in Scotland as at 31/12/10, by Year of Birth



### HPV Immunisation Coverage for Girls Resident in Scotland as at 31/12/10, by Year of Birth

Year of birth	Age as at 31/12/10	Number of girls in cohort <sup>1,2</sup>	Coverage					
			Number 1st dose	% 1st dose	Number 2nd dose	% 2nd dose	Number 3rd dose	% 3rd dose
1990	20	12,508	5,235	41.9	4,825	38.6	3,980	31.8
1991	19	36,434	22,461	61.6	21,214	58.2	18,724	51.4
1992	18	34,210	26,456	77.3	25,460	74.4	23,515	68.7
1993	17	31,779	24,790	78.0	23,544	74.1	21,549	67.8
1994	16	31,353	27,437	87.5	26,650	85.0	25,087	80.0
1995	15	30,418	27,942	91.9	27,605	90.8	27,031	88.9
1996	14	29,681	26,970	90.9	26,589	89.6	25,598	86.2

Data Source: CHI (Feb 2011) and SIRS (Feb 2011)

1. The national HPV immunisation programme started in September 2008. All girls aged 13 to under 18 as at 1 September 2008 were eligible for the vaccine. The cohort for 1990 includes girls born on or after 1 September 1990 only (i.e. those eligible for the vaccine). The majority of girls born in 1997 will currently be in their second year of secondary school (S2) and are being offered HPV immunisation during school year 2010/11.

2. The cohorts are based on girls in the eligible age range who were registered on the Community Health Index (CHI) database as resident in Scotland as at 31 December 2010. However there will be some girls registered on the CHI database who are no longer resident in Scotland. These girls are included in the denominator figures but are not available to be immunised and therefore coverage may actually be higher than reported. The denominator figures will also include girls who have moved into Scotland (e.g. higher education students) from other countries which may or may not have a HPV immunisation programme. Due to movement in and out of Scotland, the cohorts and coverage rates presented here do not directly correlate to the other published figures on uptake rates in years 1 to 3 of the HPV programme.

3. Coverage is based on data recorded on the SIRS system as at 14 February 2011. Some additional doses of HPV vaccine may have been given but have not yet been recorded on SIRS.

## Glossary

HPV

SIRS

CHSP-School

Human Papilloma Virus

Scottish Immunisation and Recall System

Child Health Systems Programme – School

## List of Tables

Table No.	Name	Time period	File & size
1	<a href="#">Interim HPV immunisation uptake rates for Year 3 of the Programme (2010/11) by NHS Board, as at 14/02/11</a>	School year 2010/11	Excel [33kb]
2	<a href="#">Interim HPV immunisation uptake rates for Year 3 of the Programme (2010/11) by CHP, as at 14/02/11</a>	School year 2010/11	Excel [36kb]
3	<a href="#">HPV immunisation uptake rates for Year 2 of the Programme (2009/10) by NHS Board, as at 14/02/11</a>	School year 2009/10	Excel [67kb]
4	<a href="#">HPV immunisation uptake rates for Year 2 of the Programme (2009/10) by CHP, as at 14/02/11</a>	School year 2009/10	Excel [94kb]
5	<a href="#">HPV immunisation coverage by year of birth</a>	Girls born 01/09/90 to 31/12/96	Excel [41kb]

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## Further Information

Further information can be found on the [Immunisation area](#) of the ISD website.

Further information on other ISD publications and datasets can be found the on the [ISD website](#).

## Appendix

### A1 – Background Information

Uptake rates are based on data recorded on the CHSP-School/SIRS system as at 14 February 2011. All NHS boards use CHSP-School/SIRS to record HPV immunisations for school year 2010/11. However, NHS Orkney did not use CHSP-School prior to this and have provided their own figures for school year 2009/10.

The uptake rates for girls in S2 in school year 2010/11 (Year 3 of the HPV immunisation programme) may increase slightly, particularly for the second dose as:

- Some girls will have started their course of HPV immunisations later in the school year so they may not yet be due their second dose.
- Some additional first or second doses of HPV vaccine may have been given but have not yet been recorded on CHSP-School.

Updated uptake rates for these girls, including uptake rates for the third dose, will be published in September 2011.

The uptake rates for girls who have left school and who were eligible for immunisation during Year 2 of the programme are likely to increase slightly, particularly for the third dose as:

- The catch-up programme for older girls is being carried out over a three year period from 1 September 2008. As NHS Boards are at different stages in their catch-up programme for school leavers this will affect the uptake rates reported for this cohort of girls in some areas. In the third and last year of the catch-up programme, which runs from 1 September 2010 to 31 August 2011, girls in the eligible age group who have not yet taken up the offer of immunisation or who have not completed the course, have the opportunity to do so.
- Some additional doses of HPV vaccine may have been given but have not yet been recorded on CHSP-School/SIRS.

Final uptake rates for all girls in the catch-up cohort will be published following the end of the catch-up programme.

There will be some girls registered on the Community Health Index (CHI) who are no longer resident in Scotland. These individuals will remain in the denominator figure for the school leavers catch up cohort but are not available to be immunised, and therefore uptake rates for girls who have left school may actually be slightly higher than reported.

## A2 – Publication Metadata (including revisions details)

Metadata Indicator	Description
Publication Title	Provisional HPV Immunisation Uptake Statistics
Description	Interim HPV immunisation uptake rates for Year 3 of the Programme (2010/11).
Theme	Health and Social Care
Topic	Child Health
Format	Excel workbooks, PDF
Data source(s)	Child Health Systems Programme - School (CHSP-S), Scottish Immunisation and Recall System (SIRS), Community Health Index (CHI)
Date that data is acquired	14 February 2011
Release date	24 March 2011
Frequency	Bi-annual
Timeframe of data and timeliness	Data up to 14 February 2011
Continuity of data	None
Revisions statement	These data are not subject to planned revisions. Each release reports on uptake rates for specific cohorts by a given date.
Revisions relevant to this publication	
Concepts and definitions	Further information about the current immunisation programmes in Scotland, the vaccines available, and the diseases they protect against, can be found via the NHS Health Scotland Immunisation website <a href="http://www.immunisationscotland.org.uk">www.immunisationscotland.org.uk</a>
Relevance and key uses of the statistics	Making information publicly available for planning, epidemiology, provision of services and providing comparative information.
Accuracy	Quality checks are conducted at data entry by NHS Boards. Figures are compared to previous years' figures and expected trends.
Completeness	Some additional doses of HPV vaccine may have been given but have not yet been recorded on CHSP-School/SIRS at the time the data was extracted.
Comparability	Data are comparable with data for the rest of the UK which are published by the <a href="#">Department of Health</a> .
Accessibility	It is the policy of ISD Scotland to make its web sites and products accessible according to published guidelines. For further details <a href="#">go to our accessibility page</a> .
Coherence and clarity	Data are available as a PDF and tables on the <a href="#">Immunisation area</a> of the ISD website. Numbers and percentages.

Value type and unit of measure	
Disclosure	Low risk of disclosure; no disclosure methods were employed.
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Date form completed	March 2011

### **A3 – Early Access details (including Pre-Release Access)**

#### **Pre-Release Access**

Under terms of the "Pre-Release Access to Official Statistics (Scotland) Order 2008", ISD are obliged to publish information on those receiving Pre-Release Access ("Pre-Release Access" refers to statistics in their final form prior to publication). The standard maximum Pre-Release Access is five working days. Shown below are details of those receiving standard Pre-Release Access and, separately, those receiving extended Pre-Release Access.

Standard Pre-Release Access:

Scottish Government Health Department  
NHS Board Chief Executives  
NHS Board Communication leads

Extended Pre-Release Access:

Extended Pre-Release Access of 8 working days is given to a small number of named individuals in the Scottish Government Health Department (Analytical Services Division). This Pre-Release Access is for the sole purpose of enabling that department to gain an understanding of the statistics prior to briefing others in Scottish Government (during the period of standard Pre-Release Access).

Scottish Government Health Department (Analytical Services Division)

These statistics will also have been made available to those who needed access to 'management information', ie as part of the delivery of health and care:

NHS Board Immunisation Co-ordinators

These statistics will also have been made available to those who needed access to help quality assure the publication:

Health Protection Scotland  
Chair of National Immunisation Co-ordinators Group  
Chair of Scottish Immunisation and Recall System National User Group