

# Publication Report



## HPV Immunisation Uptake Statistics

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

Publication date – 22 September 2011



## Contents

Contents.....	1
About ISD.....	2
Official Statistics.....	2
Introduction .....	3
Key points .....	4
Results and Commentary.....	5
Uptake statistics for Year 3 of the HPV immunisation programme.....	5
Trends in HPV immunisation uptake rates for girls in S2.....	6
HPV immunisation coverage by year of birth.....	9
Glossary.....	11
List of Tables.....	12
Contact.....	13
Further Information.....	13
Appendix.....	14
A1 – Background Information .....	14
A2 – Publication Metadata (including revisions details).....	15
A3 – Early Access details (including Pre-Release Access) .....	17

## 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 Papillomavirus (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 ran over a three-year period from September 2008 and applied to girls who were aged 13 to under 18 on 1 September 2008. Publication of a report summarising uptake rates for the catch-up programme is planned for Spring 2012.

This release presents:

1. Uptake rates for girls in S2 offered HPV immunisation in Year 3 of the programme (school year 2010/11).
2. Updated uptake rates for girls in S2 offered HPV immunisation in Year 2 of the programme (school year 2009/10).
3. Trends in HPV immunisation uptake for girls in S2:
  - a) at the end of the relevant school year
  - b) one year later
4. A snap-shot of HPV immunisation coverage for girls resident in Scotland as at 30 June 2011, by year of birth.

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

Following a [consultation](#) with users of these statistics during June/July 2011, the frequency of the publication of routine HPV immunisation uptake rates has changed from bi-annual to annual. The next publication is scheduled for release in September 2012 following the end of the school year 2011/12.

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

- By mid-August 2011 uptake rates for girls in S2 in school year 2010/11 were 91.8% for the first dose, 90.2% for the second dose and 81.0% for the third dose. Data from the first three 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 uptake rates are expected to increase slightly, for the third dose in particular as some girls will have started their course of HPV vaccinations later in the school year and therefore will not be due their third dose until school year 2011/12. Updated uptake rates for these girls will be published in September 2012.

## Results and Commentary

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

(1 Sept 2010 to 31 Aug 2011)

By mid-August 2011 uptake rates for girls in S2 in school year 2010/11 were 91.8% for the first dose, 90.2% for the second dose and 81.0% for the third dose. Data from the first three 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 uptake rates are expected to increase slightly, for the third dose in particular as some girls will have started their course of HPV vaccinations later in the school year and therefore will not be due their third dose until school year 2011/12. Updated uptake rates for these girls will be published in September 2012.

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

NHS Board <sup>2</sup>	Number of girls in cohort <sup>3</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	2 070	1 924	92.9	1 900	91.8	1 832	88.5
Borders	673	618	91.8	600	89.2	524	77.9
Dumfries and Galloway	820	756	92.2	733	89.4	590	72.0
Fife	1 976	1 781	90.1	1 752	88.7	1 544	78.1
Forth Valley	1 735	1 606	92.6	1 576	90.8	1 422	82.0
Grampian	3 007	2 762	91.9	2 720	90.5	2 506	83.3
Greater Glasgow & Clyde <sup>4</sup>	6 619	6 126	92.6	6 025	91.0	5 209	78.7
Highland	1 732	1 561	90.1	1 538	88.8	1 424	82.2
Lanarkshire <sup>4</sup>	3 386	3 141	92.8	3 091	91.3	2 891	85.4
Lothian	4 187	3 788	90.5	3 678	87.8	3 118	74.5
Orkney	106	93	87.7	93	87.7	93	87.7
Shetland	164	148	90.2	147	89.6	118	72.0
Tayside	2 278	2 109	92.6	2 080	91.3	2 014	88.4
Western Isles	133	115	86.5	115	86.5	107	80.5
<b>Scotland<sup>5</sup></b>	<b>28 932</b>	<b>26 571</b>	<b>91.8</b>	<b>26 091</b>	<b>90.2</b>	<b>23 432</b>	<b>81.0</b>

Source: CHSP School (May 2011)/SIRS (August 2011)

1. Uptake rates are based on immunisations recorded on the CHSP School system and SIRS as at 15 August 2011.
2. NHS Board of School.
3. Girls recorded on CHSP-School as being in class year S2 as at 16 May 2011. These girls were in the second year of secondary school (during school year 2010/11) and were around 12 to 13 years of age.
4. 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.
5. 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.

For information on HPV immunisation uptake rates by Community Health Partnership (CHP) see:

[HPV uptake rates for Year 3 \(2010/11\) by CHP, as at 15/08/11](#)

For updated HPV immunisation uptake rates for girls in S2 during Year 2 of the programme see:

[HPV immunisation uptake rates for Year 2 \(2009/10\) by NHS Board, as at 15/08/11](#)

[HPV immunisation uptake rates for Year 2 \(2009/10\) by CHP, as at 15/08/11](#)

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

## Trends in HPV immunisation uptake rates for girls in S2

Data from the first three years of the programme show that a number of girls complete their HPV immunisation course after the end of the school year in which they were first offered the vaccine. This means reported uptake rates for the routine S2 cohort increase slightly (for the third dose in particular) as time progresses. For example for girls in S2 during school year 2009/10; at the end of the school year uptake rates were 92.6% for the first dose, 91.1% for the second dose and 86.9% for the third dose. Now, 1 year on, the uptake rates for these girls have increased to 93.6% for the first dose, 92.5% for the second dose and 90.9% for the third dose.

### HPV immunisation uptake rates for girls in S2<sup>1</sup> during Years 1-3 of the HPV immunisation programme - Scotland

Year	Dose 1		Dose 2		Dose 3	
	End of school year	1 year later	End of school year	1 year later	End of school year	1 year later
Year 1 (2008/09)	93.7	94.5	92.7	93.8	89.4	92.4
Year 2 (2009/10)	92.6	93.6	91.1	92.5	86.9	90.9
Year 3 (2010/11)	91.8	..	90.2	..	81.0	..

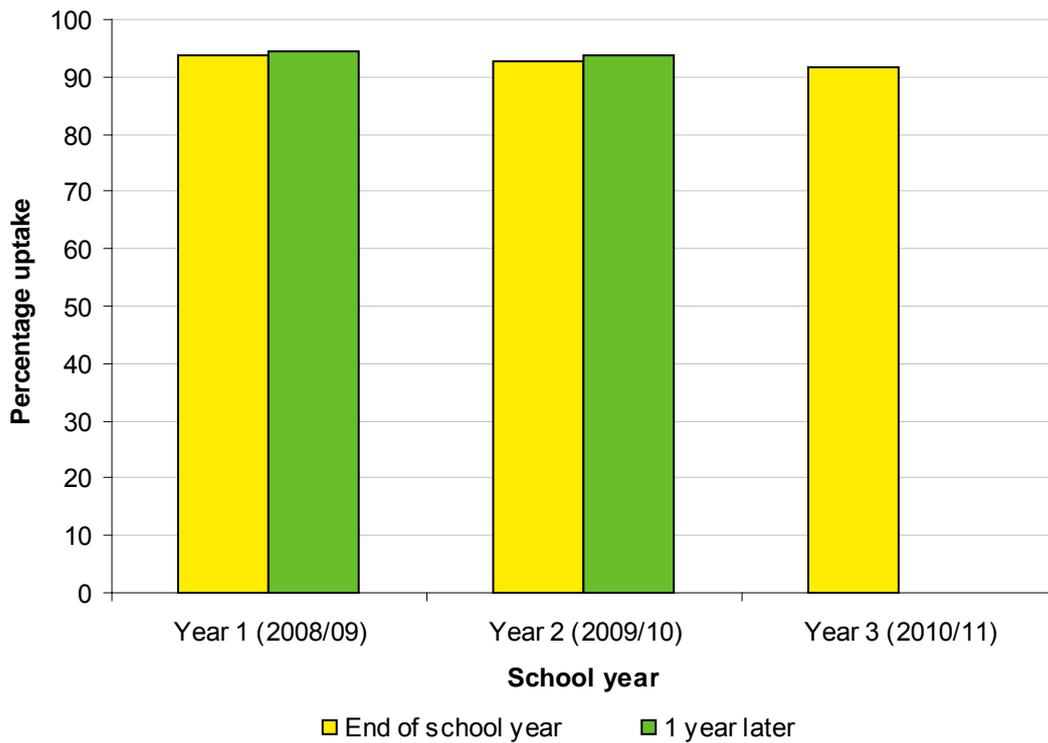
1. Girls recorded on CHSP-School as being in class year S2 during the school year indicated. These girls were in the second year of secondary school and were around 12 to 13 years of age.

.. These figures will be published in September 2012.

Source: CHSP School (May 2009/2010/2011)/SIRS (August 2009/2010/2011)

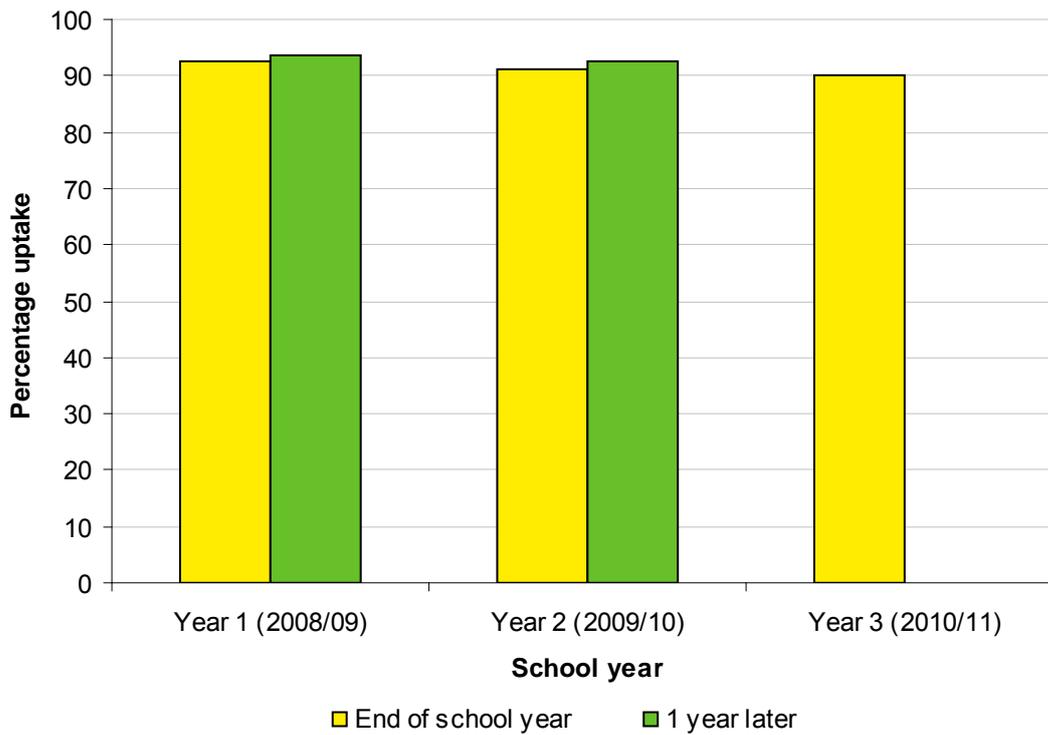
Girls in S2 during school year 2010/11 who did not complete their HPV immunisation course will be offered the opportunity to do so during school year 2011/12. Updated uptake rates for these girls will be published in September 2012.

**Trends in HPV immunisation uptake rates for girls in S2 – Dose 1**



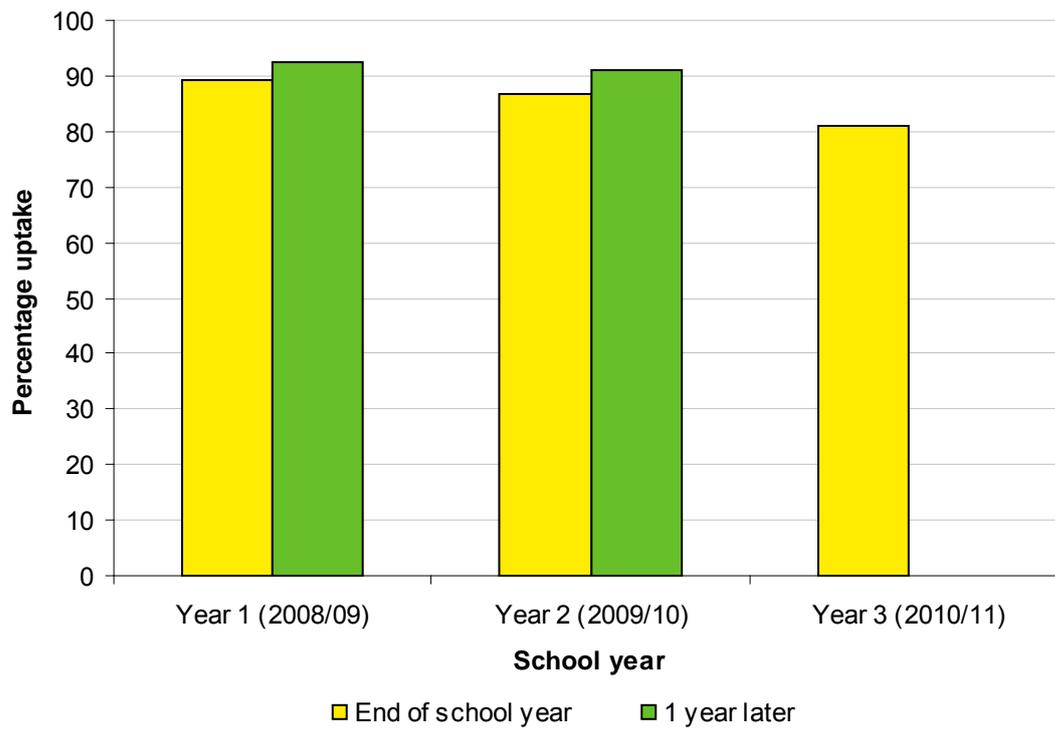
Source: CHSP School (May 2009/2010/2011)/SIRS (August 2009/2010/2011)

**Trends in HPV immunisation uptake rates for girls in S2 – Dose 2**



Source: CHSP School (May 2009/2010/2011)/SIRS (August 2009/2010/2011)

### Trends in HPV immunisation uptake rates for girls in S2 – Dose 3



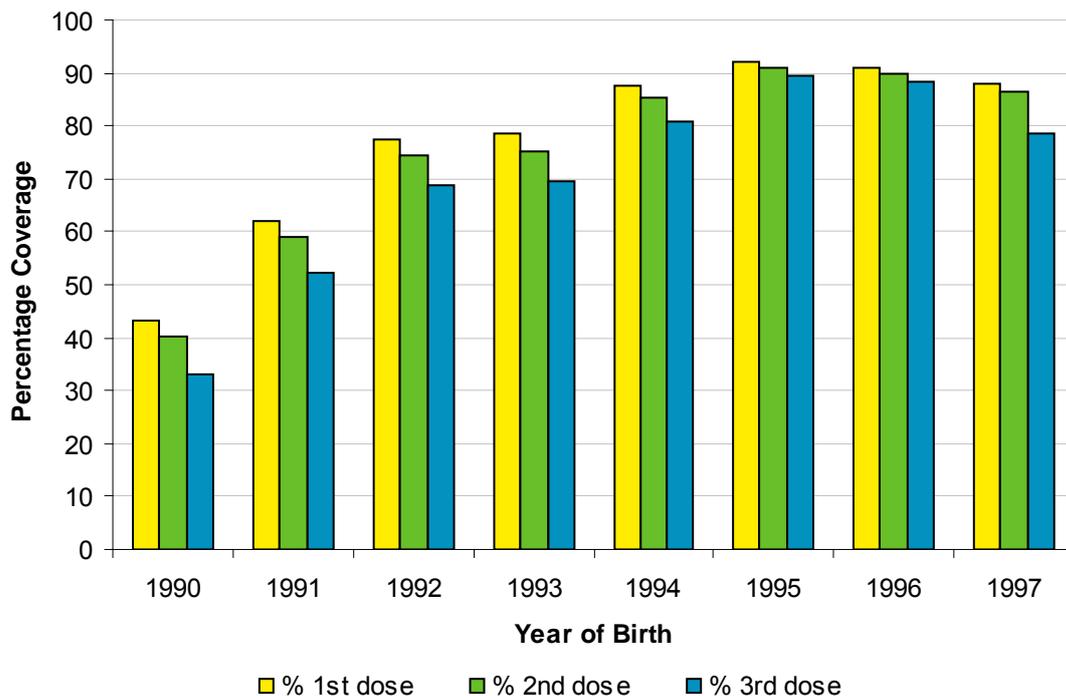
Source: CHSP School (May 2009/2010/2011)/SIRS (August 2009/2010/2011)

For further information and tables at NHS Board level see:  
[Trends in HPV immunisation uptake for girls in S2](#)

## HPV immunisation coverage by year of birth

The chart and table below show a snap-shot of HPV immunisation status among girls in the age range eligible for vaccination, and resident in Scotland as at 30 June 2011 (girls born between 01/09/90 and 31/12/1997). These figures include all girls eligible as part of the routine or catch-up programme in Scotland. 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 30 June 2011. 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.

### HPV immunisation coverage for girls resident in Scotland as at 30 June 2011, by year of birth



**HPV immunisation coverage for girls resident in Scotland as at 30 June 2011, by year of birth**

Year of birth	Age as at 30/06/11	Number of girls in cohort <sup>2,3</sup>	Coverage <sup>1</sup>					
			Number 1st dose	% 1st dose	Number 2nd dose	% 2nd dose	Number 3rd dose	% 3rd dose
1990	20/21	12,394	5,361	43.3	4,966	40.1	4,100	33.1
1991	19/20	36,365	22,620	62.2	21,442	59.0	18,950	52.1
1992	18/19	34,317	26,542	77.3	25,573	74.5	23,666	69.0
1993	17/18	31,778	24,982	78.6	23,890	75.2	22,068	69.4
1994	16/17	31,358	27,512	87.7	26,782	85.4	25,388	81.0
1995	15/16	30,435	27,983	91.9	27,673	90.9	27,193	89.3
1996	14/15	29,718	27,043	91.0	26,721	89.9	26,228	88.3
1997	13/14	29,841	26,268	88.0	25,823	86.5	23,491	78.7

Data Source: CHI/SIRS (August 2011)

1. Coverage is based on data recorded on the SIRS system as at 15 August 2011. Some additional doses of HPV vaccine may have been given but have not yet been recorded on SIRS.
2. 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).
3. 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 30 June 2011. 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.**

## Glossary

HPV

Human Papillomavirus

SIRS

Scottish Immunisation and Recall System

CHSP-School

Child Health Systems Programme – School

## List of Tables

Table No.	Name	Time period	File & size
1	<a href="#">HPV immunisation uptake rates for girls in S2 in Year 3 of the Programme (2010/11) by NHS Board, as at 15/08/11</a>	School year 2010/11	Excel [39kb]
2	<a href="#">HPV immunisation uptake rates for girls in S2 in Year 3 of the Programme (2010/11) by CHP, as at 15/08/11</a>	School year 2010/11	Excel [37kb]
3	<a href="#">HPV immunisation uptake rates for girls in S2 in Year 2 of the Programme (2009/10) by NHS Board, as at 15/08/11</a>	School year 2009/10	Excel [34kb]
4	<a href="#">HPV immunisation uptake rates for girls in S2 in Year 2 of the Programme (2009/10) by CHP, as at 15/08/11</a>	School year 2009/10	Excel [37kb]
5	<a href="#">Trends in HPV immunisation uptake for girls in S2</a>	School years 2008/09, 2009/10 and 2010/11	Excel [56kb]
6	<a href="#">HPV immunisation coverage by year of birth</a>	Girls born 01/09/90 to 31/12/97	Excel [35kb]

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## Further Information

Further information can be found on the [Childhood 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 15 August 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 years 2008/09 and 2009/10.

#### Consultation on frequency of HPV immunisation uptake statistics publication

During June/July 2011 ISD conducted a consultation regarding the frequency of publication of HPV immunisation uptake statistics. The consultation appeared on the ISD website and was emailed to the following key stakeholders: National Immunisation Co-ordinators Group, Scottish Immunisation and Recall System National User Group, Scottish Government Analytical Services Division & policy leads, NHS Board Information Managers.

The consultation proposal was as follows:

*In deciding on the frequency and timing of the release of statistics, under the Code of Practice for Official Statistics, ISD has obligations to take into account the range of users, and uses, of these statistics as well as the obligation to publish data as soon as is practicable. The purpose of this consultation is to provide the opportunity to comment on a proposal for changes to the publication frequency of HPV immunisation uptake statistics.*

*Since the HPV programme began in August 2008, uptake statistics have been published by ISD bi-annually in March and September. The September release is the main release and provides a summary of HPV immunisation uptake for all 3 doses during the previous school year e.g. in September 2010, we published HPV immunisation uptake for school year 2009/10. The March release provides interim statistics on uptake of HPV immunisation of the first 2 doses at approximately the mid-year point of the current year of the programme.*

***Our proposal is to reduce the frequency of the publication of HPV immunisation uptake statistics from bi-annual to annual. The statistics would be published at the end of September each year so that figures for the most recent school year are published in a timely way. There are a number of reasons for changing the frequency of the release:***

- *As the delivery of the HPV programme has now bedded in, and uptake rates for the routine cohort of girls in S2 are high, there is less need for interim figures to be published in March.*
- *The publications also include uptake rates for the catch-up programme, however this finishes on 31 August 2011. The ongoing HPV immunisation programme is targeted at a single year cohort of girls around 12-13 years of age, in second year of secondary school (S2).*
- *To ensure the most efficient and effective use of available resources in ISD.*

The consultation was open for a period of 6 weeks and 7 responses were received. There were no objections to the proposal to move to an annual publication.

## A2 – Publication Metadata (including revisions details)

Metadata Indicator	Description
Publication title	HPV Immunisation Uptake Statistics
Description	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 are acquired	15 August 2011
Release date	22 September 2011
Frequency	Following a consultation with users of these statistics during June/July 2011, the frequency of the publication of routine HPV immunisation uptake rates has changed from bi-annual to annual.
Timeframe of data and timeliness	Data up to 15 August 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	None
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 <a href="#">published guidelines</a> .
Coherence and clarity	Data are available as a PDF and tables on the <a href="#">Childhood Immunisation</a> area of the ISD website.
Value type and unit of measurement	Numbers and percentages.
Disclosure	The <a href="#">ISD protocol on Statistical Disclosure Protocol</a> is followed. Low risk of disclosure; no disclosure methods

	were employed.
Official Statistics designation	National Statistics
UK Statistics Authority Assessment	Awaiting assessment by UK Statistics Authority
Last published	March 2011
Next published	September 2012
Date of first publication	March 2009
Help email	<a href="mailto:NSS.isdchildhealth@nhs.net">NSS.isdchildhealth@nhs.net</a>
Date form completed	September 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)

#### **Early Access for Management Information**

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

#### **Early Access for Quality Assurance**

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