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| **HPV Vaccinations**  **NIVS** |

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# Document Management

## Revision History

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| --- | --- | --- |
| Version | Date | Summary of Changes |
| 0.1 | 08/06/23 | Initial draft |
| 0.7 | 22/06/23 | Final Draft |
| 0.8 | 30/06/23 | Amendment to data items 11/12/13/14/15 – Final Draft |
| 1.0 | 03/07/23 | Final Document |
| 1.1 | 11/10/2023 | Amendment to Gender code |
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## Reviewers / Key Stakeholders

This document has been/must be reviewed by the following people – key Stakeholders highlighted

|  |  |  |  |
| --- | --- | --- | --- |
| Reviewer name | Title / Responsibility / Company | Reviewed date | Reviewed version |
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## Document Author

This document was authored by the following:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Signature | Title | Date | Version |
| Mark Chapman |  | AD Systems and CQRS | 08/06/23 | V0.1 |
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| Mark Chapman |  | AD Systems & CQRS | 03/07/23 | V1.0 |

## Approved by

This document must be approved by the following people:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Signature | Title | Date | Version |
| Mark Chapman |  | AD Systems and CQRS | 08/06/23 | 0.1 |
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# Purpose of Document

This document defines a file extract specification for provision of vaccination information for HPV Vaccinations to NHSE Vaccination Digital Services.

The intention is that this specification is healthcare setting agnostic, so can be used to support flow of information relating to vaccination activity across Community Pharmacy, GP, Health and Justice (MOJ) healthcare settings for example.

Each of the data items required is detailed together with details on how the data should be formatted.

The document is intended to be used by both:

1. Developers in organizations supplying vaccination information to NHSE Vaccination Digital Services, as part of the extract creation process
2. Developers in NHSE Vaccination Digital Services, as input into the downstream design of the ingestion process, once the extract has landed within the NHSE Vaccination Digital Services boundary

Any changes or enhancements to the specification is subject to Change Control.

Design considerations as to file transfer mechanism (e.g., MESH) are not in scope of this document.

# Introduction

The national HPV immunisation programme beyond 2023-24 requires SAIS Provider system providers to support the HPV effort by providing NIVS with a feed of data to support take-up of the HPV vaccine. HPV data is likely to be persisted beyond 2023-24 per business requirements that we have documented.

# Data File Format

This section defines the required format of the file extract that organizations (System Suppliers) will provide to NHSE Vaccination Digital Services

## Filename Format

The filenames of the exported data files **must** be formatted by concatenating the following together with the underscore character as the delimiter:

* The data file type fixed as “Vaccinations”
* The sending organisation code as agreed with NHSE Vaccination Digital Services
* The timestamp of the export in format YYYYMMDD
  + YYYY = Year
  + MM = Month (01-12)
  + DD = Date (01-31)

The file extension will be “.csv”

For example:

Vaccinations\_ABC123\_20201014T10081501.csv

## File Header

Each data file **must** contain a header row containing the field names delimited by a pipe character. The field names must be the same as those specified in the next section.

For example:

ORGANISATION\_CODE,SCHOOL\_URN,SCHOOL\_NAME,NHS\_NUMBER,PERSON\_FORENAME,PERSON\_SURNAME,PERSON\_DOB,PERSON\_GENDER\_CODE,PERSON\_POSTCODE,DATE\_AND\_TIME,SITE\_CODE,VACCINATED,DATE\_OF\_VACCINATION,VACCINE\_TYPE,BATCH\_NUMBER,BATCH\_EXPIRTY\_DATE,ANATOMICAL\_SITE,DOSE\_SEQUENCE,REASON\_NOT\_VACCINATED,LOCAL\_PATIENT\_ID,CONSENT\_TYPE

## File Footer

A file footer must **not** be submitted

## Field Delimiter

Each field in the data files **must** be enclosed within double quotes and delimited by a pipe character “,”. Pipe characters cannot appear within a data field.

Where this is no value (null) present, this will be represented as two consecutive delimiter characters (i.e., with no space character used), e.g., in the following, fields 2 and 8 have missing (null) values:

“The”,,”Brown”,”Fox”,”Jumped”,”Over”,”The”,,”Dog”

## Record Delimiter

Each record (i.e., row) in the data files **must** be terminated by the CR and LF characters.

## Character values

**String values**

Strings should contain printable alphanumeric characters only

**Escape characters**

All double quote characters within the data MUST be escaped with the backslash “\” character

## Date Time Formats

To avoid misunderstanding, where date time fields are used within the file, the following format should be used (characters such as : + - should not be included)

YYYYMMDD

* The values to be used are as follows:
  + YYYY = Year
  + MM = Month (01-12)
  + DD = Date (01-31)

# Data File Definition

Mandatory (M) – field **must** be populated

Conditionally Mandatory (CM) - field **must** be populated where guidance notes below instruct it

Required (R) – field **must** be populated, but **only where data is available** and **guidance notes below instruct it**

Optional (O) – Supplier may choose to include this, where data is available

Note: Only factually correct information must be submitted

## Vaccination Data Items

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pos | Field Name | Data Type | Length / format / values | M/CM/R/O | Notes |
| 1 | ORGANISATION\_CODE | STRING | 5 | M | **ODS Code of organisation vaccinating child https://odsportal.digital.nhs.uk/ (maps to SITE\_CODE 8, 45)** |
| 2 | SCHOOL\_URN | Number | 6 Chars 999999 For Home Schooled 888888 For unknown school | M | **(44,49,50,56,57)** |
| 3 | SCHOOL\_NAME | String | Free text name of school | CM | **Required where School URN is recorded as 888888.** |
| 4 | NHS\_NUMBER | String | 10 | R | **Every effort should be made to populate this, where possible**.  Will be used to uniquely identify the patient. **When supplied will be validated immediately prior to submission.** Should be supplied without any padding spaces e.g. 9123456789.  (1) |
| 5 | PERSON\_FORENAME | String |  | M | Patient Forename as registered on PDS. This will be one name only. This is needed for clinical safety.  (2) |
| 6 | PERSON\_SURNAME | String |  | M | Patient Surname as registered on PDS. This is needed for clinical safety.  (3) |
| 7 | PERSON\_DOB | Date | YYYYMMDD | M | Patient date of birth. This is needed for clinical safety.  (4) |
| 8 | PERSON\_GENDER\_CODE | String | Use one of the following:  Not Known  Male  Female  Not Specified | M | Patient administrative gender. Where NHS\_NUMBER cannot be populated, this field should be populated. |
| 9 | PERSON\_POSTCODE | String | Up to 8  As well as actual post codes, the following are to be used in other scenarios  ZZ99 3VZ No Fixed Abode  ZZ99 3WZ Address Not Known  ZZ99 3CZ (England/UK) Address not otherwise specified  The full list is currently available here: <https://www.england.nhs.uk/wp-content/uploads/2020/04/cam-2021-guidance-v2.1.pdf> | M | Patient postcode. Value should be divided into two parts (inward & outward) separated by a single space, e.g., EC1A 1BB  (6) |
| 10 | DATE\_OF\_VACCINATION | Date | YYYYMMDD | M | The date that the vaccination administered (procedure) or not administered (situation) was recorded  (7,17) |
| 11 | VACCINE\_GIVEN | String | Gardasil9  Gardasil  Cervarix | M | Manufacturer of vaccine product  (20,21,28,29,30,35,36,37,38,39,40,41) |
| 12 | BATCH\_NUMBER | String | Batch or Lot number as supplied by the manufacturer | M | The batch/Lot number of the vaccine.(31) |
| 13 | BATCH\_EXPIRY\_DATE | DATE | YYYYMMDD | M | The batch expiry date (32) |
| 14 | ANATOMICAL\_SITE | String | Left Buttock  Right Buttock  Left Thigh  Nasal  Left Upper Arm  Right Upper Arm  Right Thigh | M | (33,34) |
| 15 | DOSE\_SEQUENCE | Number | 1  2  3 | M | 1 – 1st Dose  2 – 2nd Dose.  3 – 3rd Dose for those eligible for a 3rd dose, e.g. immunocompromised children  (27) |
| 16 | LOCAL\_PATIENT\_ID | String | e.g.  1) Example of a “single instance for all customers” Supplier system  ACME-patient123456  **NIVS Example using Cinnamon as a supplier system:**  **CIN – patient123456**  2) Example of “per customer instance” Supplier system  ACME-CUST1-pat123456  ACME-CUST2-pat123456  **NIVS Example using Cinnamon as a supplier system:**  **CIN-OXFORD-pat123456**  **CIN-CAMBRIDGE-pat123456** | M | Local Patient / System ID from vaccinating organisation. This must be a unique code within the vaccinating organisation  (9) |
| 17 | LOCAL\_PATIENT\_ID\_URI | String | Use the following  [https://nivssais.agemcsu.nhs.uk/*yourodscode*/system (system](https://nivssais.agemcsu.nhs.uk/yourodscode/system%20(system) number)  example  <https://nivssais.agemcsu.nhs.uk/0de/system1>  [2](https://nivssais.agemcsu.nhs.uk/0de/system1) | M | A URI for the system that has allocated the local patient identifier.  Note, this must be unique within a given Supplier system or instance of Supplier system  Where a supplier has multiple systems, then number the systems 1,2,3, etc  (10) |
| 18 | CARE\_SETTING | String | 1 – School  2 – Community Setting | M | Indicate the care setting of where the vaccination was undertaken. |