Vaccination

Technical Specification for Supplier to NHS Digital Delimited Extract

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# Document Management

## Revision History

|  |  |  |
| --- | --- | --- |
| Version | Date | Summary of Changes |
| 0.1 | 09Sep20 | Initial draft |
| 0.2 | 09Sep20 | Uplifted following initial review feedback |
| 1.0 | 09Sep20 | Baselined version, approved |
| 2.0 | 17Sep20 | Appendix B Updated to include additional guidance on population of VACCINE\_PRODUCT\_CODE using indicative covid examples |
| 2.1 (draft) | 11Nov20 | Initial revision with Coronavirus vaccination included initial review comments  captured |
| 2.2 (draft) | 11Nov20 | Draft work in progress |
| 2.3 (draft) | 19Nov20 | Final draft content post review conducted with all stakeholders at meeting on 16-Nov-2020 where all changes have been agreed.  Document sent to approvers for sign-off to set document to version 3.0 Approved. |
| 3.0 | 27Nov20 | Final pre baseline revisions agreed with all stakeholders at meeting of 18-Nov-2020.   * 3.2 File Header Example corrected; deprecated data items removed * Table entries 33 to 36 amended to allow coded values for either SNOMED or FHIR * Table entry 45 SITE\_CODE\_TYPE\_DESCRIPTION – Deprecated * Appendix uplifted to include suggested codes for Coronavirus and inclusion of sample Coronavirus vaccine file   26/11/2020  Additional clarifications [Identified by suppliers developing to the specification]   * File Header Example updated to include CARE\_SETTING\_TYPE\_CODE & CARE\_SETTING\_TYPE\_DESCRIPTION * Data Item 7 – Notes updated to remove ambiguous text. * Data Item 46 – Cardinality amended to ‘M’ Mandatory to align with the Adverse Reaction Specification. * NEW Data Item 49 - CARE\_SETTING\_TYPE\_CODE. The code was omitted during elaboration but required (mandated) for the Digi Med FHIR specification. * NEW Data Item 50 - CARE\_SETTING\_TYPE\_DESCRIPTION. The code was omitted during elaboration but required (mandated) for the Digi Med FHIR specification. * Appendix B – New examples provided for Data Items 49 & 50 |
| 3.1 | 08Apr21 | Amendments to guidance notes and attribute ratings |
| 3.2 | 11May21 | * Data item 28 and 29 – Notes updated. Only AMP code/term values must be provided. * Appendix A – Reference to 2019/20 Corona virus information redacted |
| 3.3 | 09Jul21 | Spec uplifted following 09-July-2021 review feedback  **M/R/O** column is updated to **CM** from **R**, for the following columns:   1. Data Ref:19 REPORT\_ORIGIN 2. Data Ref:38 DOSE\_UNIT\_CODE   Appendix section is updated for the below fields:   1. REPORT\_ORIGIN 2. VACCINATION\_PROCEDURE\_CODE 3. VACCINATION\_PROCEDURE\_TERM 4. VACCINATION\_SITUATION\_CODE 5. VACCINATION\_SITUATION\_TERM   Sample file for Covid Inbound is updated with updated SNOMED codes. |
| 3.4 | 29Jul21 | Data ref: 40 INDICATION\_CODE  Data ref: 41 INDICATION\_TERM  Information corrected |
| 3.5 | 30Jul21 | Document updated for minor findings by the testing team:  • Page 4 – Change section – Report Origin is incorrectly spelt as REPORT\_ORGIN  • Page 10, Field ACTION\_FLAG field - lower case is spelt incorrectly in Length / format / values section. It is spelt as lowercase.  • Page 11, Field Report\_Origin – Description in Notes section is not clear. Codes in Appendix doesn’t match with the description. Can clarity be added please?  • Page 12, Field Dose\_Sequence - Description in Notes section references Situation code also. This doesn’t seem to be valid. In case of Vaccination not given, this field is not populated. Situation code is only populated if vaccination is not given. |
| 3.5 | 07Jan22 | * Minor cosmetic changes to sections 1 -3 for conciseness following rounds of review. * SITE\_CODE – Default ODS Value added for reported vaccinations * SNOMED code and term is updated for Pfizer & Moderna vaccines * Guidance notes strengthened for items 1-8, 12-15, 18-20, 22, 25-26, 28-29, 31, 35, 37-39 and 49-50 * Guidance notes for items 37 and 38 are further strengthened with wording from recent half dose addendum * Mandation for items 25 and 37 changed following recent solutions assurance findings as well as half dose addendum * Appendix reworded to draw reader’s attention to the fact that in the main, these are ***suggested*** values, rather than an exhaustive list. |
| 3.6 | 06Apr22 | Document uplifted to include new data items, as follows:   * IP\_Address * User\_ID * User\_Name * User\_Email * Submitted\_Timestamp |

## Approved by

This document must be approved by the following people:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Signature | Title | Date | Version |
| Vaccination programme Design Authority |  | Board Members as of 13/04/2021   * Jason Stewart-Clark * Claire Connolly * Alison Kinloch * Liz Barfield * Manuel Pinto * Richard McEwan * Stuart Abbot * Violin Radev * Stephen Koch | 13/04/2021 | 3.1 |
| Vaccination Programme Design Authority |  | Board Members as of 25/05/2021 | 25/05/2021 | 3.2 |
| Vaccination Programme Design Authority |  | Board Members as of 29/07/2021 | 29/07/2021 | 3.4 |
| Vaccination programme Design Authority |  | Board Members as of 04/01/2022 | 07/01/2022 | 3.5 |
| Vaccination programme Design Authority |  | T&D Solution Architect | 11/04/2022 | 3.6 |

# Purpose of Document

This document defines a file extract specification for provision of vaccination information for COVID-19 vaccination to NHS Digital.

The intention is that this specification is healthcare setting agnostic, so can be used to support flow of information relating to vaccination activity in different settings, for example; in Community Pharmacy, GP and Health and Justice settings

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 organisations supplying vaccination information to NHS Digital, as part of the extract creation process
2. Developers in NHS Digital, for input into the downstream design of the ingestion process, once the extract has landed within the NHS Digital boundary

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

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

Furthermore, this document does not define the functional, front-end user interface, or overall technical requirements for a point of care system, as they are not in scope of the purpose of this document.

# Introduction

The COVID-19 vaccination programme requires IT system providers to support the vaccination effort by providing NHS Digital with a new feed of data to support take-up of these new vaccines.

The data will only be maintained for the duration of the applicable programmes, including (but not limited to):

* Being pushed to GP clinical records systems for direct care (including Defence Medical Information Capability Programme for Ministry of Defence registered patients)
* Central immunisation status recording within the National Immunisation Management System (NIMS)
* Summary Care Record and Summary Care Record application for direct care
* Clinical Practice Research Datalink/Medicines and Healthcare products Regulatory Authority (pseudonymised) for surveillance
* Direct Data Access environment (DDA) to support COVID pass
* Where necessary, and approved, sharing across home nation borders where an individual is vaccinated in a different home nation to their place of registration
* Extracts provided via the Data Access Request Service (DARS) Reporting for operational programme management
* National call/recall

# Data File Format

This section defines the required format of the file extract that organisations (System Suppliers) will provide to NHS Digital

## 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 major and minor (where breaking) specification version of the file
* The sending organisation code as agreed with NHS Digital
* The timestamp of the export in format YYYYMMDDThhmmsszz
  + YYYY = Year
  + MM = Month (01-12)
  + DD = Date (01-31)
  + T = fixed value of “T”
  + hh = Hours (00-23)
  + mm = Minutes (00-59)
  + ss = Seconds (00-59)
  + time zone offset = 00 for GMT, 01 for BST

The file extension will be “.csv”

For example:

The file naming convention of this technical specification v3.6 (approved) version of this document, containing coronavirus vaccination data:

Vaccinations\_v3\_6\_ABC123\_20211014T10081500.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:

NHS\_NUMBER|PERSON\_FORENAME|PERSON\_SURNAME|PERSON\_DOB|PERSON\_GENDER\_CODE|PERSON\_POSTCODE|DATE\_AND\_TIME|SITE\_CODE|UNIQUE\_ID|UNIQUE\_ID\_URI|ACTION\_FLAG|PERFORMING\_PROFESSIONAL\_FORENAME|PERFORMING\_PROFESSIONAL\_SURNAME|PERFORMING\_PROFESSIONAL\_BODY\_REG\_CODE|PERFORMING\_PROFESSIONAL\_BODY\_REG\_URI|SDS\_JOB\_ROLE\_NAME|RECORDED\_DATE|PRIMARY\_SOURCE|REPORT\_ORIGIN|VACCINATION\_PROCEDURE\_CODE|VACCINATION\_PROCEDURE\_TERM|VACCINATION\_SITUATION\_CODE|VACCINATION\_SITUATION\_TERM|NOT\_GIVEN|REASON\_NOT\_GIVEN\_CODE|REASON\_NOT\_GIVEN\_TERM|DOSE\_SEQUENCE|VACCINE\_PRODUCT\_CODE|VACCINE\_PRODUCT\_TERM|VACCINE\_MANUFACTURER|BATCH\_NUMBER|EXPIRY\_DATE|SITE\_OF\_VACCINATION\_CODE|SITE\_OF\_VACCINATION\_TERM|ROUTE\_OF\_VACCINATION\_CODE|ROUTE\_OF\_VACCINATION\_TERM|DOSE\_AMOUNT|DOSE\_UNIT\_CODE|DOSE\_UNIT\_TERM|INDICATION\_CODE|INDICATION\_TERM|NHS\_NUMBER\_STATUS\_INDICATOR\_CODE|NHS\_NUMBER\_STATUS\_INDICATOR\_DESCRIPTION|SITE\_CODE\_TYPE\_URI|LOCAL\_PATIENT\_ID|LOCAL\_PATIENT\_URI|CONSENT\_FOR\_TREATMENT\_CODE|CONSENT\_FOR\_TREATMENT\_DESCRIPTION|CARE\_SETTING\_TYPE\_CODE|CARE\_SETTING\_TYPE\_DESCRIPTION|IP\_ADDRESS|USER\_ID|USER\_NAME|USER\_EMAIL|SUBMITTED\_TIMESTAMP

## 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)

YYYYMMDDThhmmsszz

* The values to be used are as follows:
  + YYYY = Year
  + MM = Month (01-12)
  + DD = Date (01-31)
  + T = fixed value of “T”
  + hh = Hours (00-23)
  + mm = Minutes (00-59)
  + ss = Seconds (00-59)
  + time zone offset = 00 for GMT, 01 for BST

# Data File Definition

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

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

Required (R) – field **must** be populated, but **only where data is available**

Optional (O) – Supplier may choose to include this, where data is available and implementation guidance notes instruct it

**Note:** Only factually correct information must be submitted

## Vaccination Data Items

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pos | Field Name | Data Type | Length / format / values | M/CM/R/ | Implementation Guidance Notes |
| 1 | NHS\_NUMBER | String | 10 | R | This is used to uniquely identify the patient.  When supplied   1. **must** be validated immediately prior to submission.   b) must be supplied without any padding spaces. e.g 9123456789 |
| 2 | PERSON\_FORENAME | String |  | M | Patient Forename as registered on PDS or as recorded by the user where the record cannot be traced on PDS. |
| 3 | PERSON\_SURNAME | String |  | M | Patient Surname as registered on PDS or as recorded by the user where the record cannot be traced on PDS. |
| 4 | PERSON\_DOB | Date | YYYYMMDD | M | Patient date of birth. |
| 5 | PERSON\_GENDER\_CODE | String | Use national codes from  https://datadictionary.nhs.uk/attributes/person\_gender\_code.html  Use one of the following:  0 Not Known  1 Male  2 Female  9 Not Specified | M | Patient administrative gender as held on PDS or as recorded by the user where the record cannot be traced on PDS |
| 6 | 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 must be divided into two parts (inward & outward) separated by a single space, e.g. EC1A 1BB |
| 7 | DATE\_AND\_TIME | Date time | YYYYMMDDThhmmsszz  e.g. 20201214T10081500 | M | The date and time on which the vaccination was administered or was scheduled to be administered as captured within the source system.  Where time zone information is not available in the source system:  a) the time zone (zz) element can be omitted, e.g.  20201214T100815  b) alternatively, a hardcoded static value of "00" can be provided, e.g.  20201214T10081500  Where time is not captured in the source system, all the time elements can be populated with a zero, e.g.  20201214T00000000 |
| 8 | SITE\_CODE | String | Site code of vaccination site.  Acceptable site codes are:  ODS Code e.g. B0C4P  URN Code e.g 140565 | M | For roving teams on home visits or care home visits use the site code of the responsible site e.g. GP practice or dedicated vaccination site  Where the site code is not known, a default value of X99999 must be used. |
| 9 | UNIQUE\_ID | String | e.g.  1) UUID example:  e045626e-4dc5-4df3-bc35-da25263f901e  2) Example of a “single instance for all customers” Supplier system  ACME-vacc123456  3) Example of “per customer instance” Supplier system  ACME-CUSTOMER1-vacc123456  ACME-CUSTOMER2-vacc123456 | M | A unique identifier for the vaccination record, that is consistent between any subsequent update or delete records.  Ideally this would be a GUID / UUID  Value in combination with UNIQUE\_ID\_URI must be globally unique  In other words, a combination of UNIQUE\_ID and UNIQUE\_ID\_URI act as composite primary key to allow lookup of any Adverse Reactions records from the corresponding Adverse Reaction data file. |
| 10 | UNIQUE\_ID\_URI | String | e.g.  1) Example of a “single instance for all customers” Supplier system  https://supplierABC/identifiers/vacc  2) Example of “per customer instance” Supplier system  https://supplierABC/ODSCode\_ NKO41/identifiers/vacc | M | A URI for the system that has allocated the vaccination identifier.  Note, this must be unique within a given Supplier system or instance of Supplier system |
| 11 | ACTION\_FLAG | String | new / update / delete  [Note that this is case sensitive and must be in all lowercase] | M | Indication if the record is new, or has been re-submitted following an update or delete to one previously provided |
| 12 | PERFORMING\_PROFESSIONAL\_FORENAME | String |  | O | Forename of Professional performing the vaccination.  Where this item is provided, the PERFORMING\_PROFESSIONAL\_SURNAME must also be provided |
| 13 | PERFORMING\_PROFESSIONAL\_SURNAME | String |  | O | Surname of Professional performing the vaccination.  Where this item is provided, the PERFORMING\_PROFESSIONAL\_FORENAME must also be provided |
| 14 | PERFORMING\_PROFESSIONAL\_BODY\_REG\_CODE | String |  | R | A value indicating the performing professional’s professional body registration code  Where this item is provided, the PERFORMING\_PROFESSIONAL\_BODY\_REG\_URI must also be provided |
| 15 | PERFORMING\_PROFESSIONAL\_BODY\_REG\_URI | String | A URI e.g. from the following  https://fhir.hl7.org.uk/Id/gmc-number  <https://fhir.hl7.org.uk/Id/nmc-number>  <https://fhir.hl7.org.uk/Id/gphc-number>  <https://fhir.hl7.org.uk/Id/hcpc-number> | R | A URI for the system that provides the professional body registration codes  Where this item is provided, the PERFORMING\_PROFESSIONAL\_BODY\_REG\_CODE must also be provided |
| 16 | SDS\_JOB\_ROLE\_NAME | String |  | O | The job role associated with the professional |
| 17 | RECORDED\_DATE | Date | YYYYMMDD | R | The date that the vaccination administered (procedure) or not administered (situation) was recorded in the source system |
| 18 | PRIMARY\_SOURCE | Boolean | TRUE / FALSE  [Note that this is case sensitive and should be in all uppercase] | M | Set as TRUE when the content of the record is based on information from the person performing the vaccine or who has clinical responsibility for the vaccination, and the system can be considered a primary source of the vaccination event.  Set as FALSE when the content of the record is NOT based on information from the person performing the vaccine or who has clinical responsibility for the vaccination and the system should not be treated as a primary source for this record. |
| 19 | REPORT\_ORIGIN | String  (Max 100) |  | CM | A code for the organisation where the event has been stored   1. Mandatory where PRIMARY\_SOURCE=FALSE   The value must be one of the following:   1. Code value from <http://hl7.org/fhir/stu3/valueset-immunization-origin.html> 2. The ODS code of the organisation recording the vaccination event, where the vaccination was administered elsewhere 3. A free text description of the organisation recording the vaccination event, where the vaccination was administered elsewhere 4. Mandatory where PRIMARY\_SOURCE=TRUE **and** the vaccination was administered in a Primary Care Network. The value must be the ODS code of the organisation where the event has been stored |
| 20 | VACCINATION\_PROCEDURE\_CODE | String | SNOMED Concept Id | CM | Mandatory where NOT\_GIVEN=FALSE  This relates to the vaccine that was administered (procedure) |
| 21 | VACCINATION\_PROCEDURE\_TERM | String | SNOMED Term | R | This relates to the vaccine that was administered (procedure) |
| 22 | VACCINATION\_SITUATION\_CODE | String | SNOMED Concept Id | CM | Mandatory where NOT\_GIVEN=TRUE  A code (situation) describing that the vaccination procedure has been declined or not given. |
| 23 | VACCINATION\_SITUATION\_TERM | String | SNOMED Term | R | A term (situation) describing that the vaccination procedure has been declined or not given. |
| 24 | NOT\_GIVEN | Boolean | TRUE / FALSE  [Note that this is case sensitive and must be in all uppercase] | M | Flag to indicate if the vaccination was NOT given |
| 25 | REASON\_NOT\_GIVEN\_CODE | String | SNOMED Concept Id | CM | Mandatory where NOT\_GIVEN=TRUE  A reason why a vaccination was not administered |
| 26 | REASON\_NOT\_GIVEN\_TERM | String | SNOMED Term | R | A reason why a vaccination was not administered |
| 27 | DOSE\_SEQUENCE | String | 1, 2 etc | O | Nominal position in a series of vaccines  For Primary courses, this value must be 1 or 2  For any subsequent single dose maintenance course, the value must be 1. |
| 28 | VACCINE\_PRODUCT\_CODE | String | dm+d (SNOMED) Concept ID  AMP example:   * 39115611000001103 * 39114911000001105 * 39326911000001101 * 40384611000001108 | CM | Mandatory where NOT\_GIVEN=FALSE  This indicates vaccine product administered  Must be only dm+d (SNOMED) Concept ID for AMP  Note: Do not send AMPP, VMP or VMPP. |
| 29 | VACCINE\_PRODUCT\_TERM | String | dm+d (SNOMED) Concept Term  AMP example:   * Comirnaty COVID-19 mRNA Vaccine 30micrograms/0.3ml dose concentrate for dispersion for injection multidose vials (Pfizer Ltd)      * COVID-19 Vaccine AstraZeneca (ChAdOx1 S [recombinant]) 5x10,000,000,000 viral particles/0.5ml dose solution for injection multidose vials (AstraZeneca)      * Spikevax COVID-19 mRNA (nucleoside modified) Vaccine 0.1mg/0.5mL dose dispersion for injection multidose vials (Moderna, Inc) * Comirnaty Children 5-11 years COVID-19 mRNA Vaccine 10micrograms/0.2ml dose concentrate for dispersion for injection multidose vials (Pfizer Ltd) | R | Vaccine product administered  Must be only (SNOMED) Concept Term included at [**https://hscic.kahootz.com/connect.ti/t\_c\_home/view?objectId=16878800**](https://hscic.kahootz.com/connect.ti/t_c_home/view?objectId=16878800) for AMP where provided  Note: Do not send AMPP, VMP or VMPP. |
| 30 | VACCINE\_MANUFACTURER | String |  | R | Manufacturer of vaccine product |
| 31 | BATCH\_NUMBER | String  (max 100) | Derived from 2D barcode  Or  Free text | CM | Mandatory where NOT\_GIVEN=FALSE  This should be captured at source ideally via use of automated scanning technology (GS1 GTIN / NTIN standard). |
| 32 | EXPIRY\_DATE | String | YYYYMMDD | R | Manufacturer expiry date of the vaccine  OR  Coronavirus point of care sites will only put in the defrost expiry date |
| 33 | SITE\_OF\_VACCINATION\_CODE | String | A SNOMED Concept ID value from UK published reference set “Vaccine body site of administration simple reference set” (1127941000000100) should be used | R | Body site vaccine was administered into. |
| 34 | SITE\_OF\_VACCINATION\_TERM | String | A SNOMED Term value from UK published reference set “Vaccine body site of administration simple reference set” (1127941000000100) should be used | R | Body site vaccine was administered into. |
| 35 | ROUTE\_OF\_VACCINATION\_CODE | String | A SNOMED concept ID value from either of the following should be used:  UK “ePrescribing route of administration simple reference set (foundation metadata concept)” (999000051000001100)  Or:  UK published reference set “Vaccine route of administration simple reference set” (115231000001104) | CM | Mandatory where NOT\_GIVEN=FALSE |
| 36 | ROUTE\_OF\_VACCINATION\_TERM | String | A SNOMED Term value from either of the following should be used:  UK “ePrescribing route of administration simple reference set (foundation metadata concept)” (999000051000001100)  Or:  UK published reference set “Vaccine route of administration simple reference set” (115231000001104) | R | How vaccine entered the body |
| 37 | DOSE\_AMOUNT | String | Decimal (max 4)  e.g. “n.nn” | CM | Mandatory where NOT\_GIVEN=FALSE  The actual value of the dose amount administered:  For example, Spikevax® (Moderna):   * Full Dose (Primary Course) = “0.5” * Half Dose (Booster) = “0.25”   For Example, Comirnaty ® (PfizerBioNtech):   * Full Dose (Primary Course or booster) = “0.3” * Fractional Dose (Primary Course) = “0.1”   For example, Comirnaty® Children 5-11 years (Paediatric PfizerBioNtech):   * Full Dose (Primary Course) = “0.2”   **Guidance note:** Unit of measure is included in DOSE\_UNIT\_CODE below. Values to be used for each vaccine and dose amount can be found in the Vaccine Information for Suppliers document.  Null where NOT\_GIVEN=TRUE |
| 38 | DOSE\_UNIT\_CODE | String | dm+d (SNOMED) Concept ID  e.g. 258773002 | CM | Mandatory where NOT\_GIVEN=FALSE  A dm+d (SNOMED) Concept ID value representing the Unit of measure used.  Note: Only include the millilitre SNOMED code value.  A reference set has been published here: <https://dd4c.digital.nhs.uk/dd4c/publishedmetadatas/intid/980?size=10> |
| 39 | DOSE\_UNIT\_TERM | String | dm+d (SNOMED) Term  e.g. ‘Millilitre’ | R | A dm+d (SNOMED) Term value representing the Unit of Measure |
| 40 | INDICATION\_CODE | String | SNOMED Concept ID | R | A SNOMED Concept Id value representing the clinical indication or reason for administering or recording an historical vaccination. |
| 41 | INDICATION\_TERM | String | SNOMED Term | R | A SNOMED Term value representing the clinical indication or reason for administering or recording an historical vaccination. |
| 42 | NHS\_NUMBER\_STATUS\_INDICATOR\_CODE | String | Code value from https://datadictionary.nhs.uk/attributes/nhs\_number\_status\_Okindicator\_code.html?hl=trace | M | The trace status code of the [NHS NUMBER](https://datadictionary.nhs.uk/attributes/nhs_number.html) |
| 43 | NHS\_NUMBER\_STATUS\_INDICATOR\_DESCRIPTION | String | Description value from https://datadictionary.nhs.uk/attributes/nhs\_number\_status\_indicator\_code.html?hl=trace | R | The trace status description of the [NHS](https://datadictionary.nhs.uk/attributes/nhs_number.html) NUMBER |
| 44 | SITE\_CODE\_TYPE\_URI | String | Organisation:  <https://fhir.nhs.uk/Id/ods-organization-code>  School:  <https://fhir.hl7.org.uk/Id/urn-school-number>  SNOMED  http://snomed.info/sct | M | A code value indicating the type of site code value provided |
| 45 | LOCAL\_PATIENT\_ID | String  (Max 20) | e.g.  1) Example of a “single instance for all customers” Supplier system  ACME-patient123456  2) Example of “per customer instance” Supplier system  ACME-CUST1-pat123456  ACME-CUST2-pat123456 | M | Local patient identifier value for system providing the data.  Where there is no local patient identifier, provide the NHS Number |
| 46 | LOCAL\_PATIENT\_URI | String | e.g.  <https://supplierABC/identifiers>/patient  https://supplierABC/ODSCode\_ NKO41/identifiers | 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 |
| 47 | CONSENT\_FOR\_TREATMENT\_CODE | String | SNOMED Concept ID.  310375005  762911000000102 | R | SNOMED Concept ID (where available) relating to consent for treatment |
| 48 | CONSENT\_FOR\_TREATMENT\_DESCRIPTION | String  (max size 200) | SNOMED Term description  “Immunization consent given (finding)”  “Informed consent given for treatment (finding)”  Or e.g. free text  “Patient consented to be given the vaccination”  “Parent/carer/guardian consented for child to be given the vaccination” | R | SNOMED Term value relating to any consent obtained for the vaccination procedure  Or  Description relating to any consent obtained for the vaccination procedure |
| 49 | CARE\_SETTING\_TYPE\_CODE | String | A SNOMED Term value from the following should be used:  UK “Services simple reference set (foundation metadata concept)  (1127531000000102)  E.g.  SNOMED Concept ID  413294000 | M | SNOMED Concept ID for commissioned Care Setting where the vaccination information has been captured e.g. the code for Community Health Services for NHS Staff. |
| 50 | CARE\_SETTING\_TYPE\_DESCRIPTION | String | SNOMED Term description  Community health services (qualifier value) | R | SNOMED Term Value for commissioned Care Setting where the vaccination information has been captured e.g. the description for Community Health Services for NHS Staff. |
| 51 | IP\_ADDRESS | String |  | R | IP Address of the PoC user entering the vaccination record into the PoC system.  This information is required for COVID-19 records only. |
| 52 | USER\_ID | String |  | R | The unique user ID of the PoC user’s account entering the vaccination record into the PoC system.  This information is required for COVID-19 records only. |
| 53 | USER\_NAME | String |  | R | The User Name of the PoC user’s account entering the vaccination record into the PoC system.  This information is required for COVID-19 records only. |
| 54 | USER\_EMAIL | String |  | R | The email address of the PoC user’s account entering the vaccination record into the PoC system.  This information is required for COVID-19 records only. |
| 55 | SUBMITTED\_TIMESTAMP | Date time | YYYYMMDDThhmmsszz  e.g 20201214T10081500 | R | The date and time when the user commits/submits a new record or changes an existing record to the PoC system.  Where time zone information is not available in the source system:  a) the time zone (zz) element can be omitted, e.g.  20201214T100815  b) alternatively, a hardcoded static value of "00" can be provided, e.g.  20201214T10081500  Where time is not captured in the source system, all the time elements can be populated with a zero, e.g.  20201214T00000000  This information is required for COVID-19 records only. |

# Appendix A – Suggested Data Item values

The below are suggested values for some of the data items outlined in this specification.

Please note, that with the exception of VACCINATION\_PROCEDURE\_CODE instructions around Primary/Maintenance courses. The values in this section are only suggested values.

A current list of Covid-19 Vaccination Codes along with other SNOMED-CT, dm+d and OPCS etc. codes can be found under the SNOMED CT tab at:

[**https://hscic.kahootz.com/connect.ti/t\_c\_home/view?objectId=16878800**](https://hscic.kahootz.com/connect.ti/t_c_home/view?objectId=16878800)

**Row 20 VACCINATION\_PROCEDURE\_CODE & Row 21 VACCINATION\_PROCEDURE\_TERM – Suggested Values**

Primary Course

[1324681000000101](https://termbrowser.nhs.uk/?perspective=full&edition=uk-edition&server=https://termbrowser.nhs.uk/sct-browser-api/snomed&langRefset=999001261000000100,999000691000001104&conceptId1=1324681000000101) Administration of first dose of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccine

[1324691000000104](https://termbrowser.nhs.uk/?perspective=full&edition=uk-edition&server=https://termbrowser.nhs.uk/sct-browser-api/snomed&langRefset=999001261000000100,999000691000001104&conceptId1=1324691000000104) Administration of second dose of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccine

Maintenance Course

1362591000000103 Immunisation course to maintain protection against SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)

**Guidance for VACCINATION\_PROCEDURE\_CODE value feed:**

Primary Course:

Use the same METHOD Procedure Codes ( 1324681000000101 and [1324691000000104](https://termbrowser.nhs.uk/?perspective=full&edition=uk-edition&server=https://termbrowser.nhs.uk/sct-browser-api/snomed&langRefset=999001261000000100,999000691000001104&conceptId1=1324691000000104) ) as current

Maintenance Course:

Use the Maintenance (Booster) INTENT Procedure Code (1362591000000103).

For the latest SNOMED codes, please refer [**https://hscic.kahootz.com/connect.ti/t\_c\_home/view?objectId=16878800**](https://hscic.kahootz.com/connect.ti/t_c_home/view?objectId=16878800)

**Row 22 VACCINATION\_SITUATION\_CODE & Row 23 VACCINATION\_SITUATION\_TERM**

Primary Course:

1324781000000109 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccination first dose not given

1324791000000106 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccination second dose not given

1324741000000101 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccination first dose declined

1324751000000103 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccination second dose declined

Maintenance Course:

1362651000000105 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) protection maintenance course declined

1362661000000108 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) protection maintenance course not done

**Row 25 REASON\_NOT\_GIVEN\_CODE & Row 26 REASON\_NOT\_GIVEN\_TERM – Suggested Values**

1324721000000108 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccination dose declined

1324861000000109 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) immunisation course abandoned

1324731000000105 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) immunisation course not indicated

1324761000000100 SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) immunisation course contraindicated

201741000000102 Did not attend child immunisation (finding)

213257006 Generally unwell (finding)

310376006 Immunization consent not given (finding)

281399006 Did not attend (finding)

**Row 28 VACCINE\_PRODUCT\_CODE & Row 29 VACCINE\_PRODUCT\_TERM – Suggested Values**

The following are AMP examples

39115611000001103 Comirnaty COVID-19 mRNA Vaccine 30micrograms/0.3ml dose concentrate for dispersion for injection multidose vials (Pfizer Ltd)

39114911000001105 COVID-19 Vaccine AstraZeneca (ChAdOx1 S [recombinant]) 5x10,000,000,000 viral particles/0.5ml dose solution for injection multidose vials (AstraZeneca)

[39326911000001101](https://termbrowser.nhs.uk/?perspective=full&edition=uk-edition&server=https://termbrowser.nhs.uk/sct-browser-api/snomed&langRefset=999001261000000100,999000691000001104&conceptId1=39326911000001101) Spikevax COVID-19 mRNA (nucleoside modified) Vaccine 0.1mg/0.5ml dose dispersion for injection multidose vials (Moderna, Inc)

40384611000001108 Comirnaty Children 5-11 years COVID-19 mRNA Vaccine 10micrograms/0.2ml dose concentrate for dispersion for injection multidose vials (Pfizer Ltd)

**Row 35 ROUTE\_OF\_VACCINATION\_CODE & Row 36 ROUTE\_OF\_VACCINATION\_TERM – Suggested Values**

78421000 Intramuscular route (qualifier value)

**Row 40 INDICATION\_CODE & Row 41 INDICATION\_TERM – Suggested Values**

443684005 Disease outbreak (event)

**Row 49 CARE\_SETTING\_TYPE\_CODE & Row 50 CARE\_SETTING\_TYPE\_DESCRIPTION – Suggested Values**

The following are suggested values for different commissioned care settings

***NHS Trust***

413294000 Community health services (qualifier value)

***Mass Vacs site***

310065000 Open access service (qualifier value)

***Pharmacy (PCN model)***

310080006 Pharmacy service (qualifier value)

***GP (PCN Model)***

788007007 General practice service (qualifier value)

# Appendix B – Coronavirus (COVID-19)

Coronavirus example file Pipe delimited Version:



Coronavirus example file Excel Version:

