

NHS Data Model and Dictionary



Type:	Change Request
Reference:	1847
Version No:	1.0
Subject:	Cover of Vaccination Evaluated Rapidly (COVER) Central Return Data Set Version 3.0
Effective Date:	1 July 2022
Reason for Change:	Change to Information Standards
Publication Date:	9 December 2021

Background:

The Cover of Vaccination Evaluated Rapidly (COVER) Central Return Data Set Version 2.2 was approved by the Data Coordination Board (DCB) as [DCB0089: Cover of Vaccination Evaluated Rapidly \(COVER\)](#).

The Cover of Vaccination Evaluated Rapidly (COVER) Central Return Data Set is used to evaluate the routine childhood immunisation programme in England for children up to 5 years of age. The aim is to collect and report uptake for all eligible children at three months (Tuberculosis (BCG) only), one, two and five years on a quarterly and annual basis.

A number of changes have been identified since the last version, and the Cover of Vaccination Evaluated Rapidly (COVER) Central Return Data Set Version 3.0 includes:

- The retirement of the second dose of the PCV2 - Pneumococcal immunisation offered at 16 weeks
- The recording of the number of BCG vaccination by 3 months of age and the number of eligible babies at both 3 and 12 months of age.
- The responsibility for the data collection in England has been transferred from Public Health England (PHE) to the United Kingdom Health Security Agency (UKHSA).

To support the Information Standard, this Change Request updates the NHS Data Model and Dictionary to introduce the Cover of Vaccination Evaluated Rapidly (COVER) Central Return Data Set Version 3.0

A short demonstration is available which describes "How to Read an NHS Data Model and Dictionary Change Request", in an easy to understand screen capture including a voice over and readable captions. This demonstration can be viewed at: https://datadictionary.nhs.uk/elearning/Change_Request/index.html.

Note: if the web page does not open, please copy the link and paste into the web browser. A guide to how to use the demonstration can be found at: [Demonstrations](#).

Summary of changes:

Data Set

[COVER OF VACCINATION EVALUATED RAPIDLY \(COVER\) DATA SET](#) Changed Description

Supporting Information

[COVER OF VACCINATION EVALUATED RAPIDLY \(COVER\) DATA SET OVERVIEW](#) Changed Description

Attribute Definitions

[CHILDHOOD IMMUNISATION TYPE](#) Changed Description

Data Elements

[CHILDHOOD IMMUNISATION TYPE \(COVER\)](#) Changed Description

[CHILDHOOD IMMUNISATION TYPE \(COVER TUBERCULOSIS BCG\)](#) New Data Element

[ELIGIBLE POPULATION IMMUNISED PERCENTAGE \(COVER\)](#) Changed Description

[ELIGIBLE POPULATION IMMUNISED PERCENTAGE \(COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER\)](#) Changed Description

[ELIGIBLE POPULATION IMMUNISED PERCENTAGE \(COVER TUBERCULOSIS BCG\)](#) New Data Element

[ELIGIBLE POPULATION TOTAL \(COVER\)](#) Changed Description

[ELIGIBLE POPULATION TOTAL \(COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER\)](#) Changed Description

[ELIGIBLE POPULATION TOTAL \(COVER TUBERCULOSIS BCG\)](#) New Data Element

Date: 9 December 2021

Sponsor: Richard Gleave, Deputy Chief Executive and Chief Operating Officer, United Kingdom Health Security Agency (UKHSA)

Note: New text is shown with a blue background. Deleted text is crossed out. Retired text is shown in grey. Within the Diagrams deleted classes and relationships are red, changed items are blue and new items are green.

COVER OF VACCINATION EVALUATED RAPIDLY (COVER) DATA SET

Change to Data Set: Changed Description

SUBMISSION IDENTIFIER

~~To carry the details of the providing organisation and reporting period. One occurrence of this group is required.~~

To carry details of the providing organisation and reporting period. One occurrence of this group is required.

M	Data Set Data Elements
M	<u>ORGANISATION IDENTIFIER (RESIDENCE RESPONSIBILITY)</u>
M	<u>GENERAL MEDICAL PRACTICE CODE (PATIENT REGISTRATION)</u>
M	<u>GENERAL MEDICAL PRACTICE (PATIENT REGISTRATION)</u>
M	<u>REPORTING PERIOD START DATE</u>
M	<u>REPORTING PERIOD END DATE</u>

PRIMARY IMMUNISATIONS 12 MONTH COHORT

To carry details of completed primary immunisations at 12 months. Multiple occurrences of this group are permitted, one for each Childhood Immunisation Type reported.

M	Data Set Data Elements
M	<u>CHILDHOOD IMMUNISATION TYPE (COVER)</u> or <u>CHILDHOOD IMMUNISATION TYPE COMBINED (COVER)</u>
M	<u>ELIGIBLE POPULATION TOTAL (COVER)</u>
M	<u>ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER)</u>

PRIMARY IMMUNISATIONS 24 MONTH COHORT

To carry details of completed primary immunisations at 24 months. Multiple occurrences of this group are permitted, one for each Childhood Immunisation Type reported.

M	Data Set Data Elements
M	<u>CHILDHOOD IMMUNISATION TYPE (COVER)</u> or <u>CHILDHOOD IMMUNISATION TYPE COMBINED (COVER)</u>
M	<u>ELIGIBLE POPULATION TOTAL (COVER)</u>
M	<u>ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER)</u>

PRIMARY IMMUNISATIONS and BOOSTERS 5 YEAR COHORT

To carry details of completed primary immunisations and boosters at 5 years. Multiple occurrences of this group are permitted, one for each Childhood Immunisation Type reported.

M	Data Set Data Elements
M	CHILDHOOD IMMUNISATION TYPE (COVER) <i>or</i> CHILDHOOD IMMUNISATION TYPE COMBINED (COVER)
M	ELIGIBLE POPULATION TOTAL (COVER)
M	ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER)

HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHERS 12 MONTH COHORT

To carry details of Neonatal Hepatitis B coverage at 12 months. Multiple occurrences of this group are permitted, one for each Childhood Immunisation Type reported.

M	Data Set Data Elements
M	CHILDHOOD IMMUNISATION TYPE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER) <i>or</i> CHILDHOOD IMMUNISATION TYPE COMBINED (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)
M	ELIGIBLE POPULATION TOTAL (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)
M	ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)

HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHERS 24 MONTH COHORT

To carry details of Neonatal Hepatitis B coverage at 24 months. Multiple occurrences of this group are permitted, one for each Childhood Immunisation Type reported.

M	Data Set Data Elements
M	CHILDHOOD IMMUNISATION TYPE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER) <i>or</i> CHILDHOOD IMMUNISATION TYPE COMBINED (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)
M	ELIGIBLE POPULATION TOTAL (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)
M	ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)

TUBERCULOSIS (BCG) 3 MONTH COHORT

To carry details of Tuberculosis (BCG) coverage at 3 months. One occurrence of this group is required.	
M	Data Set Data Elements
M	CHILDHOOD IMMUNISATION TYPE (COVER TUBERCULOSIS BCG)
M	ELIGIBLE POPULATION TOTAL (COVER TUBERCULOSIS BCG)
M	ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER TUBERCULOSIS BCG)

TUBERCULOSIS (BCG) 12 MONTH COHORT

To carry details of Tuberculosis (BCG) coverage at 12 months. One occurrence of this group is required.	
M	Data Set Data Elements
M	CHILDHOOD IMMUNISATION TYPE (COVER TUBERCULOSIS BCG)
M	ELIGIBLE POPULATION TOTAL (COVER TUBERCULOSIS BCG)
M	ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER TUBERCULOSIS BCG)

COVER OF VACCINATION EVALUATED RAPIDLY (COVER) DATA SET OVERVIEW

Change to Supporting Information: Changed Description

Introduction

The [Cover of Vaccination Evaluated Rapidly \(COVER\) Data Set](#) is used to evaluate the routine childhood [Immunisation Programme](#) in England for children up to 5 years of age. ~~The aim is to collect and report vaccine uptake data for all children at one, two and five years of age on a quarterly and annual basis.~~ The aim is to collect and report vaccine uptake data for all children at three months (Tuberculosis (BCG) only), one, two and five years of age on a quarterly and annual basis.

The [Cover of Vaccination Evaluated Rapidly \(COVER\) Data Set](#) is also used to evaluate the neonatal hepatitis B [Immunisation Programme](#) in England for babies born to hepatitis B surface antigen (HBsAg) positive mothers.

The information is used:

- to reliably measure vaccine coverage
- to evaluate the success of a vaccination programme
- to identify susceptible populations for further interventions
- and to inform future vaccine policy decisions.

~~[Public Health England](#) is mandated to report on vaccine uptake figures for children aged one, two and five years for the [Local Authority](#) (upper tier) resident population for the [Public Health Outcomes Framework \(PHOF\) indicator 3.03 Population vaccination coverage](#). The [UK Health Security Agency](#) is mandated to report on vaccine uptake figures for children aged three months (Tuberculosis (BCG) only), one, two and five years for the [Local Authority](#) (upper tier) registered population for the [Public Health Outcomes Framework \(PHOF\) indicator Population vaccination coverage](#).~~

[NHS Digital](#) is mandated to produce the annual [Cover of Vaccination Evaluated Rapidly \(COVER\)](#) statistics. [Cover of Vaccination Evaluated Rapidly \(COVER\)](#) statistics enable the monitoring of the contribution of the routine childhood [Immunisation Programme](#) towards protecting and improving the nation's health and are used to address inequalities.

~~[Public Health England](#) and the [Department of Health and Social Care](#) also have commitments to report vaccine coverage figures to international organisations such as the [World Health Organisation](#), and the [European Centre for Disease Prevention and Control](#). The [UK Health Security Agency](#) and the [Department of Health and Social Care](#) also have commitments to report vaccine coverage figures to international organisations such as the [World Health Organisation](#), and the [European Centre for Disease Prevention and Control](#).~~

Submission

Immunisation records are held in Child Health Information Systems (CHIS). Quarterly and annual returns are transmitted by Child Health Record Departments (who operate local Child Health Information Systems (CHIS)) or other local [Health Care Providers](#) to the [NHS Digital Strategic Data Collection Service \(SDCS\)](#).

Further Guidance

~~For further guidance see the [Public Health England](#) part of the gov.~~

For further guidance see the [UK Health Security Agency](#) part of the gov.uk website at [Vaccine uptake guidance and the latest coverage data](#).

Mandation

The Mandation column indicates the recommendation for the inclusion of data.

- M = Mandatory: this data element is mandatory and the technical process (e.g. submission of the data set, production of output etc) cannot be completed without this data element being present

CHILDHOOD IMMUNISATION TYPE

Change to Attribute: Changed Description

The type of childhood immunisation given to a child on the [IMMUNISATION DATE](#).

Note:

- National Codes ending in "0" are at a high level. Either the higher level national code or the lower level code national code should be reported as required by the Data Set.

National Codes:

010	Diphtheria
011	D3 - Diphtheria
012	D4 - Diphtheria booster
020	Pertussis
021	aP3 - Pertussis
022	aP4 - Pertussis booster
030	Tetanus
031	T3 - Tetanus
032	T4 - Tetanus booster
040	Polio
041	Po3 - Polio
042	Po4 - Polio booster
050	Haemophilus influenzae type b
051	Hib3 - Haemophilus influenzae type b
060	Measles, Mumps, Rubella (MMR)
061	MMR1 - Measles, Mumps, Rubella 1
062	MMR2 - Measles, Mumps, Rubella 2
070	Meningococcal serogroup C (MenC)
080	Haemophilus influenzae type b and Meningococcal C (booster) (Hib/MenC (booster))
090	Pneumococcal (PCV)
091	PCV2 - Pneumococcal
091	PCV2 - Pneumococcal (Retired 01 July 2022)
092	PCV (booster) - Pneumococcal (booster)
093	PCV1 - Pneumococcal
100	Low dose Diphtheria
110	Human papillomavirus (HPV)
120	Rotavirus
130	Hepatitis B (Hep B)
131	Hepatitis B (Hep B3) - Routine
132	Hepatitis B (Hep B) - Selective
140	Tuberculosis (BCG)
150	Meningococcal serogroup B (MenB)
151	MenB2 - Meningococcal serogroup B

- 152 MenB (booster) - Meningococcal serogroup B (booster)
- 160 Meningococcal ACWY
- 170 Nasal Flu Vaccination

CHILDHOOD IMMUNISATION TYPE (COVER)

Change to Data Element: Changed Description

Format/Length:	an3
National Codes:	
Default Codes:	

Notes:

[CHILDHOOD IMMUNISATION TYPE \(COVER\)](#) is the same as attribute [CHILDHOOD IMMUNISATION TYPE](#) for the [Cover of Vaccination Evaluated Rapidly \(COVER\) Data Set](#).

Permitted National Codes:

- 011 D3 - Diphtheria
- 012 D4 - Diphtheria booster
- 021 aP3 - Pertussis
- 022 aP4 - Pertussis booster
- 031 T3 - Tetanus
- 032 T4 - Tetanus booster
- 041 Po3 - Polio
- 042 Po4 - Polio booster
- 051 Hib3 - Haemophilus influenzae type b
- 061 MMR1 - Measles, Mumps, Rubella 1
- 062 MMR2 - Measles, Mumps, Rubella 2
- 080 Haemophilus influenzae type b and Meningococcal C (booster) (Hib/MenC (booster))
- ~~091 PCV2 - Pneumococcal~~
- 091 PCV2 - Pneumococcal (Retired 01 July 2022)
- 092 PCV (booster) - Pneumococcal (booster)
- 093 PCV1 - Pneumococcal
- 120 Rotavirus
- 131 Hepatitis B (Hep B3) - Routine
- ~~132 Hepatitis B (Hep B) - Selective~~
- ~~140 Tuberculosis (BCG)~~
- 132 Hepatitis B (Hep B) - Selective (Retired 01 July 2022)
- 140 Tuberculosis (BCG) (Retired 01 July 2022)
- 151 MenB2 - Meningococcal serogroup B

CHILDHOOD IMMUNISATION TYPE (COVER TUBERCULOSIS BCG)

Change to Data Element: New Data Element

Format/Length:	an3
National Codes:	
Default Codes:	

Notes:

CHILDHOOD IMMUNISATION TYPE (COVER TUBERCULOSIS BCG) is the same as attribute CHILDHOOD IMMUNISATION TYPE for the Cover of Vaccination Evaluated Rapidly (COVER) Data Set where the CHILDHOOD IMMUNISATION TYPE is 'Tuberculosis (BCG)'

Permitted National Codes:

140 Tuberculosis (BCG)

This data element is also known by these names:

Context	Alias
plural	CHILDHOOD IMMUNISATION TYPES (COVER TUBERCULOSIS BCG)

CHILDHOOD IMMUNISATION TYPE (COVER TUBERCULOSIS BCG)

Change to Data Element: New Data Element

CHILDHOOD IMMUNISATION TYPE (COVER TUBERCULOSIS BCG)

Attribute:

CHILDHOOD IMMUNISATION TYPE

ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER)

Change to Data Element: Changed Description

Format/Length:	max n3.max n1
National Codes:	
Default Codes:	

Notes:

~~ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER)~~ is the percentage of the ~~ELIGIBLE POPULATION TOTAL (COVER)~~ immunised as part of an ~~Immunisation Programme~~. **ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER)** is the same as attribute **ACTIVITY PERCENTAGE**.

ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER) is the percentage of the **ELIGIBLE POPULATION TOTAL (COVER)** immunised as part of an **Immunisation Programme**.

ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)

Change to Data Element: Changed Description

Format/Length:	max n3.max n1
National Codes:	
Default Codes:	

Notes:

~~ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)~~ is the percentage of the ~~ELIGIBLE POPULATION TOTAL (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)~~ immunised as part of an ~~Immunisation Programme~~. **ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)** is the same as attribute **ACTIVITY PERCENTAGE**.

ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER) is the percentage of the **ELIGIBLE POPULATION TOTAL (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)** immunised as part of an **Immunisation Programme**.

ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER TUBERCULOSIS BCG)

Change to Data Element: New Data Element

Format/Length:	max n3.max n1
National Codes:	
Default Codes:	

Notes:

ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER TUBERCULOSIS BCG) is the same as attribute **ACTIVITY PERCENTAGE**.

ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER TUBERCULOSIS BCG) is the percentage of the ELIGIBLE POPULATION TOTAL (COVER TUBERCULOSIS BCG) immunised as part of an Immunisation Programme.

ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER TUBERCULOSIS BCG)

Change to Data Element: New Data Element

ELIGIBLE POPULATION IMMUNISED PERCENTAGE (COVER TUBERCULOSIS BCG)

Attribute:

ACTIVITY PERCENTAGE

ELIGIBLE POPULATION TOTAL (COVER)

Change to Data Element: Changed Description

Format/Length: max n5

National Codes:

Default Codes:

Notes:

ELIGIBLE POPULATION TOTAL (COVER) is the total number of PERSONS eligible to receive the immunisation of CHILDHOOD IMMUNISATION TYPE and/or CHILDHOOD IMMUNISATION TYPE COMBINED if offered within a REPORTING PERIOD. ELIGIBLE POPULATION TOTAL (COVER) is the same as attribute ELIGIBLE POPULATION TOTAL

ELIGIBLE POPULATION TOTAL (COVER) is the total number of PERSONS eligible to receive the immunisation of CHILDHOOD IMMUNISATION TYPE and/or CHILDHOOD IMMUNISATION TYPE COMBINED if offered within a REPORTING PERIOD.

ELIGIBLE POPULATION TOTAL (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER)

Change to Data Element: Changed Description

Format/Length: max n5

National Codes:

Default Codes:

Notes:

ELIGIBLE POPULATION TOTAL (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE

MOTHER) is the total number of PERSONS with maternal Hepatitis B status positive (HBsAG+ve) who are eligible to receive the immunisation of CHILDHOOD IMMUNISATION TYPE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER) and/or CHILDHOOD IMMUNISATION TYPE COMBINED (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER) if offered within a REPORTING PERIOD. ELIGIBLE POPULATION TOTAL (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER) is the same as attribute ELIGIBLE POPULATION TOTAL

ELIGIBLE POPULATION TOTAL (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER) is the total number of PERSONS with maternal Hepatitis B status positive (HBsAG+ve) who are eligible to receive the immunisation of CHILDHOOD IMMUNISATION TYPE (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER) and/or CHILDHOOD IMMUNISATION TYPE COMBINED (COVER HEPATITIS B SURFACE ANTIGEN POSITIVE MOTHER) if offered within a REPORTING PERIOD.

ELIGIBLE POPULATION TOTAL (COVER TUBERCULOSIS BCG)

Change to Data Element: New Data Element

Format/Length:	max n5
National Codes:	
Default Codes:	

Notes:

ELIGIBLE POPULATION TOTAL (COVER TUBERCULOSIS BCG) is the same as attribute ELIGIBLE POPULATION TOTAL

ELIGIBLE POPULATION TOTAL (COVER TUBERCULOSIS BCG) is the total number of PERSONS eligible to receive the immunisation of CHILDHOOD IMMUNISATION TYPE (COVER TUBERCULOSIS BCG) if offered within a REPORTING PERIOD.

This data element is also known by these names:

Context	Alias
plural	<u>ELIGIBLE POPULATION TOTALS (COVER TUBERCULOSIS BCG)</u>

ELIGIBLE POPULATION TOTAL (COVER TUBERCULOSIS BCG)

Change to Data Element: New Data Element

ELIGIBLE POPULATION TOTAL (COVER TUBERCULOSIS BCG)

Attribute:

<u>ELIGIBLE POPULATION TOTAL</u>

For enquiries about this Change Request, please email information.standards@nhs.net

