

# **PICANet Custom Data Collection**

# COVID-19 II

Version 1.0 (December 2021)

# Contents

Background	4
COVID-19 Data Collection	4
Data collection method	5
Patient details	8
Family name or Surname	8
First name	8
Postcode	8
NHS, CHI or H&C number	8
Case note number	9
Date of birth	9
COVID-19 II Dataset	10
Reason for reporting	10
PIMS-TS	10
COVID-19	10
Potential COVID-19 vaccine related complications	10
Does the patient have any underlying conditions?	11
PIMS-TS	12
COVID-19 PCR test result	12
Date of earliest COVID-19 positive test result	12
Main reason for PIMS-TS admission	12
Echo findings at the time of PICU stay	13
Treatment	13
COVID-19 confirmed by PCR	15
Date of earliest positive test	15
Symptoms	15
Treatment	16
If the patient died, was death related to COVID-19?	17
Potential COVID-19 vaccine related complications e.g. myocarditis/pericarditis	18
Number of doses of vaccine received	18
Date of most recent vaccine	18
Type of most recent vaccine	18
Has the patient suffered from COVID-19 infection of PIMS-TS in the past?	19
Symptoms	19
Investigations	20
Treatment	20
Outcome at PICU discharge	21

Echo findings at discharge	21
Cardiac Magnetic Resonance at time of discharge	22
Diagnostic coding for reference	22

# **Background**

#### **COVID-19 Data Collection**

PICANet developed the first COVID-19 Customised Data Collection in May 2020 (v 1.1) in collaboration with the Clinical Advisory Group and Paediatric Intensive Care Society to collect data on those children (<18 years) found to be COVID-19 positive. From the 7<sup>th</sup> December 2020, this was extended to collect data on those children clinically diagnosed with PIMS-TS, confirmed by the absence of another cause, who may also have a positive COVID-19 PCR test. A second revised version, COVID-19 II Customised Data Collection v1.0, was devised in December 2021 with input from clinicians. The COVID-19 II data collection differs from the first version in that the section on testing and sampling for COVID-19 is removed, and an additional collection of data items regarding PIMS-TS and potential COVID-19 vaccine related complications have been added.

COVID-19 II will collect information about only **one** of the following:

- 1. Children aged less than 18 years clinically diagnosed with PIMS-TS (who may also have a positive COVID-19 PCR test or a positive antibody test) *or*
- Children aged less than 18 years for whom a diagnosis of COVID-19 is confirmed by laboratory diagnosis during or immediately prior to admission to a paediatric intensive care unit (PICU) or
- 3. A child aged less than 18 years with suspected or potential COIVID-19 vaccine- related complications (e.g. myocarditis/pericarditis) (not PIMS-TS or COVID-19 confirmed by PCR).

#### Please note:

- Please continue to record the PICANet admission events for all confirmed cases of COVID-19 and PIMS-TS, and suspected or probable COVID vaccination myocarditis ASAP after the first complete 24 hours (00.00 23.59 Hrs), either manually or electronically, including all daily interventions, diagnostic and discharge data, ethnicity, PIM, weight, Primary Diagnosis, and at least one other diagnostic code in 'Other reasons for admission' for this admission, plus co-morbidities where appropriate and
- Complete the COVID-19 II Customised data collection using the appropriate selection/drop down box (choose only one). If for example a child tests positive for COVID-19 and then is later clinically diagnosed with PIMS-TS please enter the child as PIMS-TS, or retrospectively complete the PIMS-TS tab overriding the initial COVID tab and
- Continue to return the PICANet COVID-19/PIMS-TS reporting spreadsheet fortnightly (or other frequency as indicated by PICANet) and recording of custom audit data.

**Diagnostic coding** for COVID-19, PIMS-TS, and suspected or probable COVID vaccination myocarditis are given at the end of this Dataset Definitions Manual.

**Recording Transport event data** for all confirmed cases of COVID-19/PIMS-TS/suspected or probable COVID vaccination complications – choose one of the three options of:

- PIMS-TS
- COVID-19 confirmed by PCR (not PIMS-TS)
- Potential COVID-19 vaccine-related complications

# Data collection method

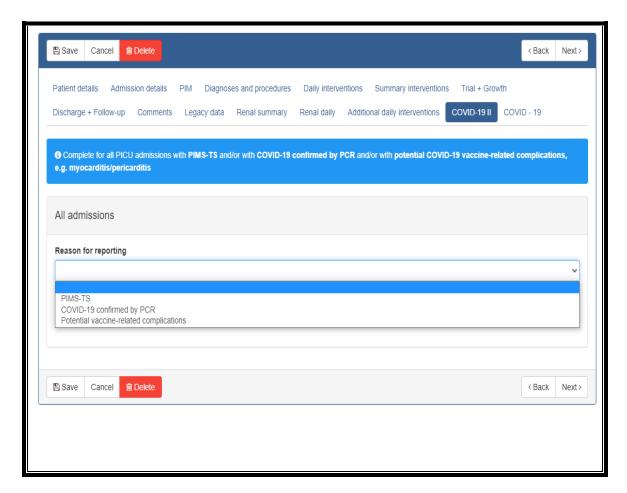
 A PICANet COVID-19 II customised data collection form is completed for all admissions to PICU, for whom the diagnosis of COVID-19 was confirmed as positive by laboratory testing, or PIMS-TS exclusive of any other microbial cause, or potential COVID-19 vaccine-related complications.

### COVID-19 II Custom Data Collection Form (Version 1.0 December 2021).

PICA Paediatric Intensi	ve Care Audit Network · Custom	data collection COVID-19 II		
Please complete for all PICU admissions with PIMS-TS and/or with COVID-19 confirmed by PCR and/or with potential COVID-19 vaccine-related complications, e.g. myocarditis/pericarditis				
Patient details (or hospital label) Family name First name	Postcode NHS/CHI/H&C number	Case note number  Date of birth (dd/mm/yyyy)		
All admissions				
Reason for reporting  PIMS-TS  COVID-19 confirmed by PCR (not PIMS-TS)  Potential COVID-19 vaccine-related complication of the patient have any underlying complete the patient have any underlying compl	ations, e.g. myocarditis/pericarditis (not PII/IS-TS o morbidities?	r COVID-19 canfirmed by PCR)		
Complete this section if reason for reno	orting in PIMS_TS			
COVID-19 PCR test result	Echo findings at any time during PICU stay (tick all that apply)	Treatment (tick all that apply)  ☐ No treatment		
Date of earliest positive COVID-19 test (include historic data if infection several weeks prior to PIMS-TS)	Echo not done Normal Reduced function Effusion Valve regurgitation Bright coronaries Dilated coronaries/aneurysm	IVIG   Steroids   Tocilizumab   Anakinra   Infliximab   Baricitinib   High-dose aspirin   Low-dose aspirin   Other treatment (specify)   continued over		
Contact us - picanet@leeds.ac.uk - 0* For more contact details, go to picanet.org.uk/contact-us	113 343 8125 For information about this custom data colle picanet.org.uk/covid-19	ection, go to		

COVID-19 confirmed by PCR				
Complete this section if reason for reporting is COVID-19 confirmed by PCR (not PIMS-TS)				
Date of earliest positive test (including immediately prior to PICU admission)	Symptoms (tick all that apply)  No symptoms—asymptomatic throughout PICU stay  RESPIRATORY  Respiratory  CARDIOVASCULAR  Shock  Myocarditis  NEUROLOGICAL  Seizures  Encephalopathy  Other neurological symptoms (specify)  GASTROINTESTINAL  Gastrointestinal  OTHER  Other symptoms attributed to COVID-19  (specify)	Treatment (tick all that apply)  No treatment Steroids Tocilizumab/sarilumab Baricitinib Remdesivir Plasma Monoclonal antibodies Molorupiravir Prophylactic dose anticoagulation Therapeutic dose anticoagulation Other treatment (specify)  If patient died, was death related to COVID-19? Yes No No Not applicable (patient alive at discharge)		
		The approach (pacers are a decrease)		
Potential COVID-19 vaccine-related o	omplications, e.g. myocarditis/pericar	ditis		
Complete this section if reason for reporting is potential COVID-19 vaccine-related complications, e.g. myocarditis/pericarditis (not PIMS-TS or COVID-19 confirmed by PCR)				
Number of doses of vaccine received  Date of most recent vaccine  Type of most recent vaccine  Moderna Oxford/AstraZeneca Pfizer/BioNTech Janssen	Investigations (tick all that apply)  No investigations  ECG  ST-elevation (pericarditis)  Nonspecific ST-T changes  Ischaemic changes  Arrhythmia  ECHO  Impaired myocardial function  Pericardial effusion  Coronary artery changes  Valve regurgitation  CARDIAC ENZYMES	Treatment (tick all that apply)  No treatment Aspirin Steroids Other anti-platelet Inotropes ACE-I or ARB Anti-arrhythmics and/or beta blockers Other treatment (specify)  Outcome at PICU discharge		
Has the patient suffered from COVID-19 infection or PIMS-TS in the past?  Yes, COVID-19 only Yes, PIMS-TS only Yes, both COVID-19 and PIMS-TS No, neither Unknown  Symptoms (tick all that apply) Chest pain Fever Breathlessness Palpitation Pericardial effusion Other symptoms (specify)	Peak troponin    Peak NT-proBNP   ng/L     Peak BNP   pmol/L     CARDIAC MIR   Impaired function   Myocardial cedema   Hyperaemia or late gadolinium enhancement     OTHER   Other investigations (specify)	Complete resolution of signs/symptoms Partial resolution of signs/symptoms Other, if not a cardiac manifestation (specify)  Echo at discharge Not done Normal Abnormal Cardiac MR at discharge Not done Normal Abnormal Abnormal Abnormal		

2. When the PICU enters or uploads to PICANet web the admission event data, the additional customised dataset is manually recorded onto the COVID-19 II tab. The tab is available for all children admitted from the 13<sup>th</sup> December 2021.



#### Then:

- 1. Select one of the options in the drop down box.
- 2. Enter the dataset recorded on the COVID-19 II paper customised data collection form (if used).

#### Patient details

#### Family name or Surname

**Definition** The last or family name or surname given to the child as it would appear

on the child's birth certificate or other appropriate document.

**Reason** Family name provides an additional identifier that can aid patient

tracking throughout the hospital and PICANet Web.

Can help identify individuals who may have had multiple admissions to

one or more PICUs.

Format Free text (e.g. Brown).

If no family name available record as UNKNOWN

First name

**Definition** The first name given to the child as it would appear on the child's birth

certificate or other appropriate document.

**Reason** First name provides an additional identifier that can aid patient tracking

throughout the hospital and PICANet Web.

Can help identify individuals who may have had multiple referrals and

/or admissions to one or more PICUs.

Format Free text (e.g. John).

If no first name available record as UNKNOWN

Postcode

**Definition** The postcode for the child's normal place of residence.

**Reason** Postcode provides an additional identifier that can aid patient tracking

throughout the hospital and PICANet Web.

Can help identify individuals who may have had multiple admissions to

one or more PICUs.

Postcode provides a means of linkage to geographic and demographic

information for effective audit and assessment of health services

delivery.

Format Text (e.g. S10 8NN).

Foreign postcodes will be accepted by the software, although a warning will be generated in the case of non-UK standard postcodes to ensure

that the user checks the data.

If postcode is unobtainable, record as UNKNOWN

#### NHS, CHI or H&C number

**Definition** Unique identifying number enabling tracing of a patient through the

NHS system in England, Wales and Northern Ireland. For English and Welsh patients the NHS number, for Scottish patients the CHI number and for Northern Ireland the H&C number is used as a unique numeric

identifier.

**Reason** NHS, CHI or H&C number gives a unique, identifiable variable that will

allow other identifiable data items to be removed from the database. Can help identify individuals who may have had multiple referrals,

transport and/or admission events to one or more PICUs.

**Format** Free text (e.g. 1463788990).

Validation check that NHS, CHI or H&C number is a valid number

Case note number

**Description** Unique identifying number for an individual's hospital records at the

treating unit.

Allocated on first admission to hospital.

**Reason** Case note number provides a unique identifier that can aid patient

tracking throughout the hospital.

**Format** Free text (e.g. AB145C).

Date of birth

**Definition** The child's date of birth as recorded on the child's birth certificate or

other appropriate document.

**Reason** Date of birth and Date of admission are used to calculate age at

admission to your unit.

Format Date of birth provides an additional identifier that can aid patient

tracking throughout the hospital and PICANet Web.

Can help identify individuals who may have had multiple referrals

and/or admissions to one or more PICUs.

Date: dd/mm/yyyy

Date of birth should be on or prior to the Date of admission. if the child's date of birth is unobtainable, but the child is under your care, use your judgement to estimate year of birth and record as 1<sup>st</sup>

January of estimated year )e.g. 01/01/YYYY

Validation rule Warning if patient is aged 18 years or older

#### COVID-19 II Dataset

#### Reason for reporting

Please record one reason only for opening and recoding the admission event onto the COVID-19 II customised dataset tab by selecting one of the options in the drop down box. These are:

- 1. PIMS-TS (regardless of positive or negative COVID-19 PCR test result)
- 2. COVID-19 confirmed by PCR (not PIMS-TS)

3. Potential vaccine-related complications (e.g. myocarditis/pericarditis)

**PIMS-TS** 

Definition Identifies whether the child has a clinical diagnosis of paediatric

Inflammatory multisystem syndrome (PIMS-TS) temporally associated with

SARS-CoV-2 (COVID-19).

Reason To identify the incidence of PIMS-TS in the paediatric population and allow

for effective audit & assessment of the demand for PIC.

Format Select the option from the drop down box/tick box

COVID-19

Definition Identifies whether the child has a COVID-19 confirmed positive test result

prior to this admission to PICU

Reason To identify the incidence of COVID-19 in the paediatric population and

allow for effective audit and assessment of the demand for PIC

Format Select the option from the drop down/tick box

Potential COVID-19 vaccine related complications

Definition Identifies whether a child has probable or suspected COVID – 19 vaccine

related complications e.g. myocarditis/pericarditis (not PIMS-TS or COVID-

19 confirmed by PCR)

Reason To identify the incidence of COVID-19 vaccine related complications for

Effective audit & assessment of COVID-19 vaccine related complications.

Format Select the option from the drop down/tick box

# Does the patient have any underlying conditions?

Definition

Identifies whether a child has any underlying co-morbidities recorded on admission of the child to your unit

Identifies other problems the child had prior to admission to your unit, Which may or may not be related to the reason for this admission. Comorbidity relates to any underlying condition recorded in the notes. E.g.

Trisomy 21.

Required for clinical audit, epidemiological analysis, and assessment of Reason

health services delivery.

**Format** Choose from one of the following:

No

Yes – record co-morbidities in **Diagnoses and procedures** section

on PICANet admission.

Free text If code unknown or not available in the diagnoses and procedures section

in PICANet Web please enter a free text description of the co-morbidity

Given in clinical notes and/or discharge

#### PIMS-TS

Complete this section if reason for reporting is PIMS-TS.

#### COVID-19 PCR test result

Definition Identifies whether the child's PCR test result was negative or positive to

COVID-19

Reason Required for clinical audit, epidemiological analysis and assessment of

health services delivery.

Format Choose from the one of the following:

PositiveNegative

#### Date of earliest COVID-19 positive test result

Include historic data if infection several weeks prior to PIMS-TS

Definition The actual date of the earliest COVID-19 positive PCR test result whether

prior to admission to PICU, during the admission to PICU, but also includes a test undertaken in another ward or department in the same hospital and/or the original admitting hospital for children retrieved/transferred to

PICU.

Reason Date of PCR testing is used to identify cases where more than one testing

session was undertaken in order to identify a confirmed positive COVID-19

diagnosis.

Format Date: dd/mm/yyyy.

#### Main reason for PIMS-TS admission

Definition Specifies the types of symptoms that the child may have presented with

on admission to PICU with clinically diagnosed or suspected PIMS-TS, and

the type of support that was required to care for the child.

Reason Required to identify the frequency and range of symptoms present in

Children admitted to PICU with clinically diagnosed or suspected PIMS-TS

Format Tick all that apply

Cardiovascular support

Gastrointestinal symptoms

• Respiratory support

Other reasons – please specify in the free text e.g. renal support

\_\_\_\_\_

#### Echo findings at the time of PICU stay

Please tick all that apply

Definition

Identifies the results of the echocardiogram (scan of the heart) findings at any point during the child's stay on your PICU.

**Echo not done** – no echocardiogram undertaken at any point in the child's stay on your unit.

Normal- no abnormal echocardiogram findings reported.

**Reduced function** -echocardiogram shows reduced function in either the left or the right side of the heart. Usually based on fractional shortening or ejection fraction or visual appearance.

**Effusion** – echocardiogram shows evidence of a pericardial effusion (build up of fluid around the heart).

**Valve regurgitation**- echocardiogram shows evidence of any of the valves demonstrate regurgitation e.g. mitral regurgitation.

**Bright coronaries** —echocardiogram shows evidence of enhanced perivascular echo brightness/high intensity echoes.

**Dilated coronaries/aneurysm** – echocardiogram shows evidence of dilated coronary artery or arteries and/or coronary aneurysm.

Reason

Required to understand the echocardiogram findings in relation to PIMS-TS

**Format** 

Tick all that apply:

- Echo not done
- Normal
- Reduced function
- Valve regurgitation
- Bright coronaries
- Dilated coronaries/aneurysm

Validation

Warning if no values entered and box not ticked for 'Echo not done'

# Treatment

Please tick all that apply

Definition

The treatment or medication used to treat a clinically diagnosed PIMS-TS child in your unit.

**No treatment** – none of the treatments listed, and no other antiviral, or immune modulator medication has been used.

**IVIG** – the use of Intravenous immune globulin, such as Vigam, Gammaplex, Privigen etc.

**Steroids** – Oral, IM, and IV corticosteroids such as methylprednisolone, prednisolone, dexamethasone (excluding administration for airway swelling).

**Tocilizumab** – either subcutaneous or intravenously

**Anakinra** – Kineret – subcutaneously

**Infliximab** – Remicade – intravenously

Baricitinib - Olumiant - oral

**High dose aspirin** – in the dose range of 20-100mg/kg/day in divided doses.

**Low dose aspirin** – in the dose range of ~5mg/kg/day limited to 150 mg max.

Other treatment – specify in the free text box

Reason

To record the identify treatment and/or medication in a clinically diagnosed PIMS-TS child

**Format** 

Tick all that apply:

- No treatment
- IVIG
- Steroids
- Tocilizumab
- Anakinra
- Infliximab
- Baricitinib
- High-dose aspirin
- Low-dose aspirin
- Other treatment (specify in free text box)

Validation

Warning if no values not entered and box not ticked for 'No Treatment'

COVID-19 II Dataset Definitions Manual, v1.0 Dec 2021

## COVID-19 confirmed by PCR

Please complete this section if reason for reporting is COVID-19 confirmed by PCR and not PIMS-TS.

#### Date of earliest positive test

Including immediately prior to PICU admission.

Definition Identifies the actual date when the child had a COVID-19 confirmed

positive test result including the time immediately prior to PICU admission

Includes a test undertaken in another ward or department in the same hospital and/or the original admitting hospital for children retrieved

or transferred to the PICU.

Reason Date of testing assists with tracking of the testing process and can be used

to identify the time between the earliest positive test and PICU admission.

Format Date: dd/mm/yyyy

Validation rule Warning if value not entered

**Symptoms** 

Please tick all that apply

Definition Identifies the clinical features shown by the child admitted to PICU with a

diagnosis of COVID-19 confirmed by PCR. Tick all that apply:

No symptoms – asymptomatic throughout PICU stay

Respiratory – such as increased work of breathing, cough, runny nose

**Cardiovascular** – such as shock or myocarditis

Neurological – signs of seizures, encephalopathy, or other neurological

symptom (please specify in free text box)

Gastrointestinal – nausea, vomiting or diarrhoea

Other – attributed to COVID-19 such as anosmia, fever > 37.8 °C, rash

(please specify in free text box)

Reason Required to understand the occurrence of clinical symptoms identified

in children with COVID-19 admitted to paediatric intensive care.

Format Tick all that apply

No symptoms

Respiratory

- Cardiovascular shock and/or myocarditis
- Neurological seizures and/or encephalopathy and/or 'other neurological symptom to specify
- Gastrointestinal
- Other symptom attributed to COVID-19 (please specify)

Validation

Warning if no symptoms entered and box not ticked for 'No symptoms asymptomatic throughout PICU stay'

#### **Treatment**

Please tick all that apply

Definition

Identifies the treatment(s) used when a child has been diagnosed as COVID-19 positive on PCR. Tick all that apply:

**No treatment** – none of the treatments listed or specified and no other antiviral, antibiotic, or immune modulator medication has been used to treat this child.

**Steroids** – Oral, IM, and IV corticosteroids such as methylprednisolone, prednisolone, dexamethasone (excluding administration for extubation)

**Tocilizumab/Sarilumab** – immune modulator medication

Baricitinib - Olumiant -oral

Remdesivir - Veklury - intravenous

**Convalescent Plasma** 

**Monoclonal antibodies** 

Molnupiravir – Lagevrio

**Prophylactic dose anticoagulation** – often a fixed dose of heparin without dose titration based on aPTT or anti-Xa results.

**Therapeutic dose anticoagulation** – with dose titration aiming for an aPTT target >55-65 or anti-Xa >0.3-0.5 regardless of low molecular weight or unfractionated heparin.

Other treatment –please specify in the free text box

Required to identify the treatment and/or medication given to children

diagnosed as COVID-19 positive on PCR

Format Tick all that apply:

Reason

No treatment

COVID-19 II Dataset Definitions Manual, v1.0 Dec 2021

- Steroids
- Tocilizumab/Sarilumab
- Baricitinib
- Remdesivir
- Plasma
- Monoclonal antibodies
- Molnupiravir
- Prophylactic dose anticoagulation
- Therapeutic dose anticoagulation
- Other treatment (please specify in the free text box)

Validation

Warning if no values entered and box not ticked for 'No treatment'

### If the patient died, was death related to COVID-19?

Definition Records whether the death of the child in PICU was related to COVID-19

Reason Required to understand the impact of COVID-19 on children, for

epidemiological purposes and planning of health services.

Format Choose from one of the following:

• Yes the death was related to COVID-19

• No the death was not related to COVID-19

• Not applicable – child alive at time of discharge

Validation Warning if value not entered or conflict with 'status at discharge'

# Potential COVID-19 vaccine related complications e.g. myocarditis/pericarditis

Complete this section if reason for reporting is potential COVID-19 vaccine related complications e.g. myocarditis/pericarditis (not PIMS-TS or COVID-19 confirmed with PCR)

#### Number of doses of vaccine received

Definition Identifies the number of doses of vaccine received at time of PICU

PICU admission

Reason To better understand COVID-19 vaccine related complications

Format Report the number of vaccine(s) in the box provided

Validation Expecting a number from one.

\_\_\_\_\_

#### Date of most recent vaccine

Definition Records the date of the most recent vaccine dose

Reason To gain an understanding of the time in between the dose of the last

vaccine and admission to PICU

Format Date: dd/mm/yyyy

Validation Warning if value not entered

\_\_\_\_\_

#### Type of most recent vaccine

Definition Identifies the make and brand of the latest COVID-19 vaccination prior to

admission to PICU

Reason To gain an understanding of the different types of COVID-19 vaccine and

identify any relationships with COVID-19 vaccine complications

Format Tick the box that applies. Choose from:

Moderna

Oxford/AstraZenecaPfizer/BioNTech

Janssen

Validation Warning if value not entered

#### Has the patient suffered from COVID-19 infection of PIMS-TS in the past?

Definition Records whether the child has previously been identified as being COVID-19

positive confirmed by PCR, and/or been clinically diagnosed with PIMS-TS

Reason Required to identify and understand the incidence of COVID-19 positive

cases and/or PIMS-TS and COVID-19 vaccine related complications

Format Choose from one of the following options:

Yes – COVID-19 onlyYes- PIMS-TS only

• Yes – both COVID-19 and PIMS-TS

• No – neither PIMS-TS or COVID-19

Unknown

Validation Warning if no value entered

\_\_\_\_\_

#### **Symptoms**

Please tick all that apply

Definition Identifies the clinical features shown by the child admitted to PICU

with potential COVID-19 vaccine-related complications

These include cardiac, respiratory, systemic and other specified symptoms

Reason Required to understand the type and occurrence of clinical symptoms

identified in children treated for potential COVID-19 vaccine related

complications

Format Tick all that apply:

Chest pain

Fever

Breathlessness

Palpitation

• Pericardial effusion

Other symptom –specify other symptom in the free text box

Validation Warning – symptoms must not be missing

#### Investigations

#### Please tick all that apply

Definition

Records the number and type of investigations carried out in PICU during this admission and their findings

Incudes electrocardiogram (ECG) investigations and findings, echocardiogram (echo) findings, cardiac enzymes, cardiac magnetic resonance (MR) findings, and specified other.

If the results of the investigations such as documented echo findings or laboratory results are pending return at the time of data completion, please ensure the data is subsequently completed

Reason

Required to identify the investigations carried out, and the occurrence and type of findings in this cohort of children

**Format** 

Please tick all that apply:

- No investigations
- ECG: ST-elevation (pericarditis)
- ECG: NONspecific ST-T changes
- ECG: Ischaemic changes
- ECG: Arrhythmia
- ECHO: Impaired myocardial function
- ECHO: Pericardial effusion
- ECHO: Coronary artery changes
- ECHO: Valve regurgitation
- CARDIAC ENZYMES: Peak Troponin: Numerical value e.g. 9,750ng/l
- CARDIAC ENZYMES: Peak NT-proBNP: Numerical value e.g. 157 ng/l
- CARDIAC ENZYMES: Peak BNP: Numerical value e.g. 2.789 ng/l
- CARDIAC MR: Impaired Function
- CARDIAC MR: Myocardial ischaemia
- CARDIAC MR: Hyperaemia or late gadolinium enhancement
- OTHER Investigations please specify in the free text box.

Validation

Warning if no values entered and box not ticked for 'No Investigations'

# Treatment

Please tick all that apply

Definition

Records the type of treatment (if any) was given to the child during this this PICU admission

Aspirin, steroids, other antiplatelet therapy (e.g. dipyridamole), the use of inotropes (e.g. adrenaline, milrinone), ACE – I (angiotensin converting enzyme inhibitor, e.g. captopril),or ARB (angiotensin receptor blocker e.g. losartan), anti arrhythmics (e.g. amiodarone), and/or beta blockers (e.g. propranolol), and any other specified treatment.

Reason To identify and record the different types of treatment given to a child in

PICU with potential COVID-19 vaccine related complications

Format Tick all that apply:

• No treatment

Aspirin

Steroids

Other anti-platelet

Inotropes

ACE-I or ARB

Anti-arrhythmics and/or beta blockers

• Other treatment – please specify in the free text box

Validation Warning if no values entered and box not ticked for 'No treatment'

#### Outcome at PICU discharge

Definition Records the status of the child with potential COVID-19 vaccine related

complications on discharge from your unit

Reason To identify cardiac and other signs/symptoms following potential COVID-19

vaccine related complications for planning and assessment of healthcare

services

Format Tick the box that applies to outcome at PICU discharge

**Complete** resolution of signs/ symptoms

• Partial resolution of signs/symptoms

• Other – if not a cardiac manifestation(please specify in the free

text box)

Validation Warning- expecting an outcome at discharge

#### Echo findings at discharge

Definition Records the echocardiogram findings at the time of discharge from PICU

Reason To identify echocardiogram findings at the point of PIC discharge for review

of treatment and planning of healthcare services in a child with potential

COVID-19 vaccination complications

Format Please tick one option:

Not done – no echocardiogram done

Normal –normal echocardiogram findings at time of discharge

 Abnormal – abnormal echocardiogram findings present at time of discharge

COVID-19 II Dataset Definitions Manual, v1.0 Dec 2021

Validation Warning if no value entered and box 'Not done' not ticked

#### Cardiac Magnetic Resonance at time of discharge

Definition Records the cardiac magnetic resonance (MR) findings present at the point

of discharge

Reason To identify cardiac MR findings at the point of PIC discharge for review of

treatment and planning of healthcare services.

Format Please tick one option:

Not done – no cardiac MR performed

Normal – Normal Cardiac MR findings at the point of discharge

• Abnormal – Abnormal Cardiac MR findings at the point of

discharge

Validation Warning if no values entered and box not ticked for 'not done'

#### Diagnostic coding for reference

The READ coding directory on PICANet Web includes the codes for the following:

#### **COVID**

A795. Coronavirus infection

Y20d1 Confirmed Coronavirus (COVID-19) infection

Y20cf Suspected Coronavirus (COVID-19) infection

#### **PIMS-TS**

**X40Yk** Systemic Inflammatory Response Syndrome (SIRS)

**G7510** Kawasaki syndrome (the clinical picture which may occur as part of PIMS-TS)

#### COVID-19 vaccine related complications

No READ codes available as yet: suggest:

**G5y0.** Myocarditis NOS

**G52..** Acute myocarditis

**XEOUp** Acute pericarditis