

PICANet Custom Data Collection

COVID-19 II

Version 2.1 (October 2022)

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
Number of doses of COVID 19 vaccine received	11
Date of most recent COVID 19 vaccine	11
Type of most recent COVID 19 vaccine	12
PIMS-TS	13
COVID-19 PCR/LFD test result during this admission	13
Date of earliest COVID-19 positive test result	13
Main reason for PIMS-TS admission	13
Echo findings at the time of PICU stay	14
Treatment	14
COVID-19 confirmed by PCR/LFD	16
Date of earliest positive test	16
Symptoms	16
Treatment	17
If the patient died, was death related to COVID-19?	18
Potential COVID-19 vaccine related complications e.g. myocarditis/pericarditis	19
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 (now Paediatric Critical Care Society) to collect data on those children (<18 years) found to be COVID-19 positive. From the 7th 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 polymerase chain reaction (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. This updated version 2.0 has some slight changes to the original COVID-19 II format to capture all the different types of vaccination for each child in this custom audit.

In October 2022 the COVID-19 II Customised Data Collection v2.1 was expanded to include those children with COVID-19 confirmed by lateral flow device (LFD) as well as PCR test in response to changes in testing practice.

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

- Children aged less than 18 years clinically diagnosed with PIMS-TS (who may also have a positive COVID-19 PCR or LFD test) or
- Children aged less than 18 years for whom a diagnosis of COVID-19 is confirmed by laboratory diagnosis or lateral flow device test 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 or LFD).

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, 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 according to the frequency indicated by PICANet (this may be weekly, fortnightly or monthly as required) 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 or LFD (not PIMS-TS)
- Potential COVID-19 vaccine-related complications

Data collection method

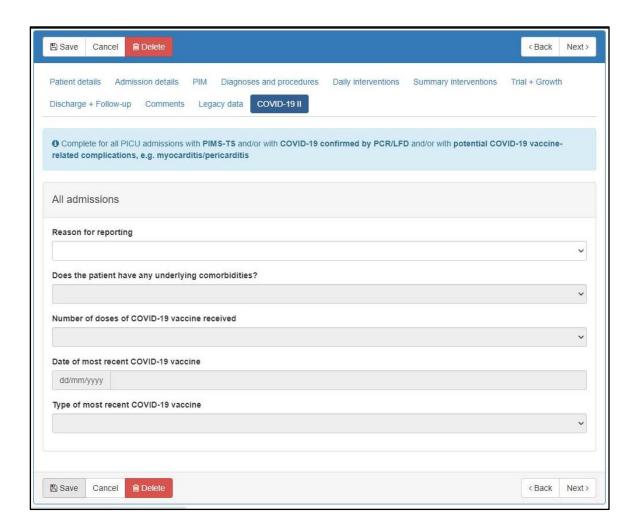
 A PICANet COVID-19 II customised data collection form is completed for all admissions to PICU, for whom the diagnosis of COVID- 19 was confirmed as positive by laboratory testing or lateral flow device test, or PIMS-TS exclusive of any other microbial cause, or potential COVID-19 vaccine-related complications.

COVID-19 II Custom Data Collection Form (Version 2.1 September 2022).

PICA Paediatric Intensiv	ve Care Audit Network · Custom	data collection COVID-19 II		
Please complete for all PICU admissions with paediatric inflammatory multisystem syndrome temporally associated with SARS-CoV-2 (PIMS-TS) and/or with COVID-19 confirmed by polymerase chain reaction (PCR) or lateral flow device (LFD) test and/or with potential COVID-19 vaccine-related complications, e.g. myocarditis/pericarditis Patient details (or hospital label)				
First name	Postcode NHS/CHI/H&C number	Case note number Date of birth (dd/mm/yyyy)		
All admissions (with PIMS-TS, COVID-15	oconfirmed by PCR/LFD test, or potential CC	VID-19 vaccine-related complications)		
Reason for reporting PIMS-TS COVID-19 confirmed by PCR/LFD test (not PIMS-TS) Potential COVID-19 vaccine-related complications, e.g. myocarditis/pericarditis (not PIMS-TS or COVID-19 confirmed by PCR/LFD test)	Does the patient have any underlying comorbidities? No Yes—record comorbidities in Diagnoses and procedures section of PICANet admission	Number of doses of COVID-19 vaccine received (if patient is not vaccinated, record 0) Date of most recent COVID-19 vaccine Type of most recent COVID-19 vaccine Moderna Oxford/AstraZeneca Pfizer/BioNTech Janssen		
PIMS-TS Complete this section if reason for reporting is PIMS-TS				
COVID-19 PCR/LFD test result during this admission	Echo findings at any time during PICU stay (tick all that apply)	Treatment for PIMS-TS (tick all that apply)		
Positive Negative	Echo not done Normal	None IVIG		
Date of earliest positive COVID-19 test (include historic data it infection several weeks prior to PIMS-TS) Main reason for PIMS-TS admission Cardiovascular support Gastrointestinal symptoms Respiratory support Other (specify)	Reduced function Effusion Valve regurgitation Bright coronaries Dilated coronaries/aneurysm	Steroids Tocilizumab Anakinra Infliximab Baricitinib High-dose aspirin Low-dose aspirin Other (specify)		
Form completed by		continued over		
Contact us · picanet@leeds.ac.uk · 0113 343 8125				
For more contact details, go to picanet.org.uk/contact-us For information about this custom data collection, go to picanet.org.uk/covid-19 PICANet custom data collection form - COVID-19 II - Version 2.1 - September - 2022 - Copyright © 2022 University of Leeds and University of Leicester Page 1 of 2				

COVID-19 confirmed by PCR/LFD test				
Complete this section if reason for reporting is COVID-19 confirmed by PCR/LFD test (not PIMS-TS)				
Date of earliest positive test (including immediately prior to PICU admission)	Symptoms (tick all that apply) No symptoms attributed to COVID-19 throughout PICU stay / asymptomatic RESPIRATORY Respiratory CARDIOVASCULAR Shock Myocarditis NEUROLOGICAL Seizures Encephalopathy Other neurological symptoms (specify) GASTROINTESTINAL Gastrointestinal OTHER Other symptoms attributed to COVID-19 (specify)	Treatment for COVID-19 (tick all that apply) None Steroids Tocilizumab/sarilumab Baricitinib Remdesivir Plasma Monoclonal antibodies Molnupiravir Prophylactic dose anticoagulation Therapeutic dose anticoagulation Other (specify) If patient died, was death related to COVID-19? Yes No Not applicable (patient alive 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 by PCR/LFD test)				
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 (specify)	Investigations (tick all that apply) None ECG ST-elevation (pericarditis) Nonspecific ST-T changes Ischaemic changes Arrhythmia ECHO Impaired myocardial function Pericardial effusion Coronary artery changes Valve regurgitation CARDIAC ENZYMES Peak troponin Peak BNP Impaired function Myocardial oedema Hyperaemia or late gadolinium enhancement OTHER Other (specify)	Treatment for potential COVID-19 vaccine-related complications (tick all that apply) None Aspirin Steroids Other anti-platelet Inotropes ACE-I or ARB Anti-arrhythmics and/or beta blockers Other (specify) Outcome at PICU discharge 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		

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 13th December 2021.



Then:

- 1. Select one of the options in the drop down box.
- 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 1st

lancery of estimated year \alpha = 01/01/0000

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/LFD test result)
- 2. COVID-19 confirmed by PCR/LFD (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/LFD)

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.

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

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

Number of doses of COVID 19 vaccine received

(If patient is not vaccinated, record 0)

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

PICU admission

Reason To better understand COVID-19 vaccine uptake and vaccine related

complications

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

Validation Expecting a number from one or zero if not vaccinated

Date of most recent COVID 19 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

COVID-19 II Dataset Definitions Manual, v2.1 Oct 2022

Type of most recent COVID 19 vaccine

Definition Specifies the make of the COVID-19 vaccine that the child has received

(if applicable)

Reason Important for assessing vaccine status and any differences in the type

of vaccine received

Format Specify whether:

Moderna

Oxford/AstraZenecaPfizer/BioNTech

Janssen

Validation Warning if type of vaccine not specified and date of most recent vaccine

entered

PIMS-TS

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

COVID-19 PCR/LFD test result during this admission

Definition Identifies whether the child's PCR/LFD 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/LFD 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/LFD 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 confirmed by PCR/LFD

Please complete this section if reason for reporting is COVID-19 confirmed by PCR or LFD 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/LFD. Tick all that apply:

No symptoms attributed to COVID-19 throughout PICU stay /

asymptomatic

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/LFD. 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

Reason

Required to identify the treatment and/or medication given to children diagnosed as COVID-19 positive on PCR/LFD

Format Tick all that apply:

- No treatment
- 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/LFD)

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/LFD, 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

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