

PICANet Web Quick User Guide



The PICANet database is hosted in the University of Leeds' LASER system (Leeds Analytics Secure Environment for Research). LASER is a cloud-based Trusted Research Environment (TRE) that provides a secure environment for researchers to store, handle, process and analyse sensitive and confidential data.

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Logging-In

When first navigating to PICANet Web you will get a dialog box to log in.

Enter your University of Leeds **User name** (e.g.medtjf) and **Password**. If you do not have a user name for PICANet, please contact PICANet on PICANetWebAccess@leeds.ac.uk

Permission to access the PICANet Web record for a named organisation must be authorised by the lead clinician. Please ask the lead clinician to send an email to PICANetWebAccess@leeds.ac.uk detailing your name, email address, job title and requirement for PICANet Web Writer or Reader only access.

PICANet Web Writer:	Members of this group have full read/write access to own organisation's data
PICANet Web Reader:	Members of this group have read-only access to own organisation's data (i.e. user can open event pages and export data but is prohibited from modifying and saving.)

Please note that the sharing of user names and passwords for PICANet Web is strictly prohibited and contravenes the [Leeds University Password Usage and Management Policy](#).

Disclosure and sharing of passwords and accounts may result in your access being withdrawn.

Home

The first screen you will see after logging-in is the home dashboard. **Your username** will be displayed on the top-right and **your organisation** on the top-left of the screen.

News

Jul 29 National Data Opt-Out (England): exemption received for submission of data to PICANet for clinical audit
Participating organisations based in England, please be aware that PICANet has been granted an exemption from the National Data Opt-Out by the Health Research Authority Clinical Advisory Group. This is because the absence of even one child's data can lead to inaccurate conclusions. This means that even if a National Data Opt-Out has been set, the child's clinical audit data can still be entered into the PICANet web database. Please note that from 31st July 2022, PICANet will however apply the National Data Opt-Out to the PICANet research database to ensure that no children are included in any research projects where an opt-out has been applied.

May 30 Welcome back to the PICANet Web Database
Here are a few updates to be aware of

- The GP practice code has been removed from the admission dataset.
- If you admit Ukrainian refugee children and young people to your unit, please add the following text, #UKR along with any other comments, to the comments box in the PICANet admissions dataset. This will enable PICANet to separate out the data when required.
- The renal daily and renal summary custom data collections are now only available for admissions up to the 30th of April 2022

Feb 22 PICANet Annual Dataset Freeze 2022
The PICANet dataset for the period 01/01/2019 to 31/12/2021 will be frozen at 12 midnight on 31 March 2022; it is essential that all event data for this period is completed and all validation queries resolved.
For children admitted prior to 31 December 2021 who remain as inpatients on your unit, please ensure that all daily intervention data up to and including 31 December 2021 is complete.

See more news

Tasks

- Amend **incorrect data** in 1074 events
- Complete 1214 discharged admission events
- Check the data for 1217 incomplete events
- Add a new event

[View an up-to-the-minute Event Validation Report](#)

Quick open

Event ID [Open](#)

Featured report

Events by month

Number of events

Aug 2021 Sep 2021 Oct 2021 Nov 2021 Dec 2021 Jan 2022 Feb 2022 Mar 2022 Apr 2022 May 2022 Jun 2022 Jul 2022 Aug 2022 Sep 2022 Month

See more reports

Recently modified events

CS	ET	Event date	Family name	First name	Date of birth	Sex	NHS/CHI/H&C number	Case note number	Postcode	Modified on	Event ID	
		01-Jul-2022	UNKNOWN	Unknown	01-Jul-2005	Female	Unknown	Unknown	LE1 6	18-Aug-2022 11:58	861810	Open
		01-Jul-2022	UNKNOWN	Unknown	01-Jul-2005	Male	Unknown	555	LE1 6	17-Aug-2022 17:01	861812	Open
		01-Jul-2022	JOHNSON	Carl	05-Jul-2005	Female	555 123 4568	627369	LE1 6TP	17-Aug-2022 17:01	861811	Open
		21-Jun-2022	UNKNOWN	Unknown	01-Jul-2005	Male	Unknown	555	Unknown	17-Aug-2022 14:49	861515	Open
		20-Mar-2021	CALVERT	Arlo	24-Dec-2009	Female	555 386 8971	37041453	SE6 8UQ	20-Jul-2022 14:52	861526	Open

See more events

Use the menu bar to navigate around the website.

The home page is divided into 5 areas:

News	Important news about the system including any maintenance work currently being undertaken or due to take place and any updates from PICANet.
Tasks	The number of events with incomplete data and/or errors. A list of these events can be accessed by clicking either incomplete events or errors .
Quick open	You can quickly view an individual event by entering the PICANet Event ID and clicking Open . This will take you straight to the event screen.
Featured Report	The featured report displayed gives an instant view of the number of events recorded when you log-in. You can click Reports to see more detailed reports.
Recently modified events	Recently edited events will be displayed so you can quickly get to the events you are currently working on.

The database enables recording of admission event data, allowing real-time validation and reporting of your data. If your unit opts in, it will also enable completion of specified Customised Data Collections.

Points to note:

- The term **event** is used to describe a single episode of PCC activity, such as a referral, transport or admission event.
- The term **organisation** is used to represent any unit or transport service involved in the provision of paediatric intensive care (PIC). The key organisation types are Paediatric Intensive Care Unit (PICU), High Dependency Unit (HDU), Centralised Transport Service (CTS), District General Hospital (DGH) and Airport. The term DGH also includes other locations from or to which PIC patients are retrieved or transferred, such as other wards in centres that provide critical care and hospices.

Searching for a patient

In order to enter data on a new or existing patient you will need to conduct a patient search. Click on the Search option on the menu bar. To help reduce the risk of recording duplicate events your search must include **at least 3** different search terms to be able to add a new event. Searching by **NHS number only**, **Case note number** and one of **Family name**, **Postcode** or **Date of birth** will allow you to browse matching records if there are any, but not add a new event.

All terms contributing towards the criteria must contain at least 3 characters. This is a security feature since the search screen allows you to view patients who have been admitted to other PICUs or transported by a CTS. You cannot see any clinical information but you can see that a patient has had an event with another organisation. This allows the database to track patients who have events with several organisations.

Search

You must search for a patient before you may add a new event. Matching patients are listed according to the strength of the match.

- To create an event for a **new patient** (i.e. a patient who is not displayed in the results), click New Referral, New Transport or New Admission.
- To add an event for an **existing patient** (i.e. a patient who is displayed in the results), click Add Referral, Add Transport or Add Admission (shown above the patient's event list).
- To **view, edit or delete** an event, click Open on the relevant row.

If your search doesn't meet these criteria you will get an error message.

Family name	NHS/CHI/H&C number	Event date
JOHNSON		
First name	Case note number	
CARL		
Postcode	Date of birth	

Event date is not used in search, but any matching dates will be highlighted in the results below

[Search](#) [Clear](#)

Search conditions not met!

Your search must meet **one or more** of the following criteria:

- include **NHS/CHI/H&C number**
- and/or include **Case note number** and also one of **Family name**, **Postcode** or **Date of birth**
- and/or include at least 3 different search terms

Additionally, all terms contributing towards the criteria must contain at least 3 characters.

When you have entered a valid search, your results will be displayed. The search will either generate a list of possible patients or will indicate that there are no matches.

Search

You must search for a patient before you may add a new event. Matching patients are listed according to the strength of the match.

- To create an event for a **new patient** (i.e. a patient who is not displayed in the results), click New Referral, New Transport or New Admission.
- To add an event for an **existing patient** (i.e. a patient who is displayed in the results), click Add Referral, Add Transport or Add Admission (shown above the patient's event list).
- To **view, edit or delete** an event, click Open on the relevant row.

Family name	NHS/CHI/H&C number	Event date
VOLVIC		
First name	Case note number	
strawberry	54637763	
Postcode	Date of birth	

Event date is not used in search, but any matching dates will be highlighted in the results below

[Search](#) [Clear](#)

2 patients matched VOLVIC, strawberry, 54637763 (1.8 seconds)

[New Admission \(Level 2\)](#)

★★★★★ VOLVIC, Strawberry

Born 01-Oct-2009

Sex Female

NHS/CHI/H&C no. Unknown

2 events

[Add Admission \(Level 2\)](#)

CS	ET	Event date	Family name	First name	Date of birth	Sex	NHS/CHI/H&C number	Case note number	Postcode	Modified on	Event ID	
			Unknown	Unknown	Unknown	Unknown	Unknown	54637763	Unknown	20-Jan-2023 13:48	887667	Open
			01-Oct-2009	Female	Ineligible		54637763		LE5 9RF	31-Aug-2022 11:30	870304	Open

The number of stars indicates how strongly your search criteria match a patient in the database. Five stars being the strongest.

Clicking **Open** will expand the event and show you those details

Creating an Event

Using the search results, either add an event for an existing patient or enter an event for a new patient.

2 patients matched VOLVIC, strawberry, 54637763 (1.8 seconds)

New Admission (Level 2)

★★★★★ VOLVIC, Strawberry Born 01-Oct-2009 Sex Female NHS/CHI/H&C no. Unknown 2 events

+ Add Admission (Level 2)

CS	ET	Event date	Family name	First name	Date of birth	Sex	NHS/CHI/H&C number	Case note number	Postcode	Modified on	Event ID	
		02-Jan-2023	VOLVIC	Strawberry	Unknown	Unknown	Unknown	54637763	Unknown	20-Jan-2023 13:48	887667	Open
		01-Jul-2022	VOLVIC	Strawberry	01-Oct-2009	Female	Ineligible	54637763	LE5 9RF	31-Aug-2022 11:30	870304	Open

If the patient you want to enter an event for is displayed, click the 'Add Admission (Level 2)' link displayed (you will need to click the 'Open' link for the named patient to see these).

If the patient you are searching for is not in the database, click the 'New Admission (Level 2)' link.

Entering an Event

A blank event screen will open with the details you searched for filled in already. All the event screens are organised the same way. Use the **tab key** to move between fields.

Admission (Level 2) Event ID 887667

VOLVIC, Strawberry Born on Unknown Sex Unknown NHS/CHI/H&C no. Unknown Admitted on 02-Jan-2023 Discharged on Unknown

Save Cancel Delete < Back Next >

Patient details Admission details Severity of illness Ventilation + Growth + Trial Daily interventions Diagnoses and procedures Discharge Comments + Feedback

Family name: VOLVIC First name: Strawberry Date of birth: 01-Oct-2009 Sex: Female NHS/CHI/H&C number: 54637763 Case note number: 54637763

Ethnic group: Other ethnic group: Gestational age at delivery: weeks If patient is under 2 years old: Birth order: Multiplicity:

Postcode: NHS/CHI/H&C number: ☐ Patient not eligible for number

Case note number: 54637763

Save Cancel Delete < Back Next >

Click on the relevant section heading to go to that section.

The patient banner displays the details of the patient. **Locally record the Event ID to permit easy recall of the event**

You do not need to click 'Save' as you go between sections, click the 'Back' and 'Next' buttons. When you have finished entering data click 'Save'. The record will then be saved to the database. If you want to abandon your changes click 'Cancel'.

When a new event is created the error list generated includes all missing data. As you enter data the list will update automatically, diminishing as 'missing' data is recorded. You can click on the '**Tick if unobtainable/correct**' box on any error that should be ignored (for example if you do not have the 'Case note number').

? Case note number expected
Case note number should not be missing
☐ Tick if unobtainable

Event completion status

Each event has a *completion status*, which indicates whether it has any missing, questionable or erroneous data. Throughout the system, we use coloured icons to indicate an event's completion status based on data validation severity

Icons

- ✓ Event is **complete**; no further data is required and all existing data is validated and verified
- 🔵 Event has **missing** data
- 🟡 Event contains **warnings** (questionable data); it may also have missing data
- 🔴 Event contains **errors** (erroneous data); it may also contain warnings and/or have missing data

🔴 Event 1 error 2 warnings 36 missing values Jump to ▾

? Time of admission to unit expected
Time of admission to unit should not be missing
☐ Tick if unobtainable

✖ Admitted before birth
Date of admission cannot be earlier than Date of birth

⚠ Pre-PICANet admission (PILOT) event
Date of admission pre-dates the start of PICANet admission (PILOT) data collection (1 Jul 2022)
☐ Tick if correct

Each event has a coloured icon displaying the status of this event.

Data Entry

Use the tab key to move between fields. The following date and time formats are acceptable.

DATES

Format	Example
dd-MMM-yyyy	3-Oct-2011
dd/mm/yyyy	3/10/2011
ddmmyyyy*	03102011

TIMES

Format	Example
hh:mm	9:00
hhmm*	0900

These formats are shortcuts and require leading the data entry with a zero i.e. 3102011 will not be accepted and error message will be listed in the Event validation list. 03102011 will be accepted. The system will automatically insert the appropriate separator.

Diagnoses and procedures

In order to enter a diagnosis or procedure you need to find the relevant READ code.

SaveCancelDelete

< BackNext >

Patient detailsAdmission detailsSeverity of illnessVentilation + Growth + TrialDaily interventionsDiagnoses and proceduresDischargeComments + Feedback

Primary diagnosis for this admission

H33.. Asthmaasthma

EditRemove

Add Primary Diagnosis

Other reasons for this admission

-

Add Other Reason

Operations and procedures performed prior to and during this admission

-

Add Operation or Procedure

Comorbidities

-

Add Co-morbidity

Was a tracheostomy performed during this admission?

SaveCancelDelete

< BackNext >

Click on add diagnosis or procedure to activate the coding search tool.

Select the type of code required.

procedure Operation or procedure

Description (as recorded in the patient's notes)

Code

Unspecified - please select a code from the panel below

Concept domain

☐ Cause ☐ Disorder ☒ Procedure ☐ History and observation ☐ Unspecified

Match

☒ any of the words ☐ all of the words ☐ the exact phrase ☐ similar words (fuzzy match)

Search

Copy Search diagnosis or proced Search

Recently used

Heart transplant X011q Temporary cardiac pacemaker procedure

Save Cancel

The search engine has the option to search for: 'Any of the words', 'All of the words', 'The exact phrase' or 'Similar words'.

Record a description of the diagnosis or procedure. Click 'Copy' to paste the text in the Search box.

As with the patient search; the number of stars indicates how strongly your search criteria match a code in the database. Five stars being the strongest.

Diagnosis or procedure Primary diagnosis

Description (as recorded in the patient's notes)

Code

H33.. Asthma x Remove

Concept domain

☐ Cause ☒ Disorder ☐ Procedure ☐ History and observation ☐ Unspecified

Match

☒ any of the words ☐ all of the words ☐ the exact phrase ☐ similar words (fuzzy match)

Search

Copy asthma Search

50 items (0.3 seconds)

Rating	Matching term	Code and preferred term
★★★★★	Asthma	H33.. Asthma
★★★★★	Bronchial asthma	H33.. Asthma
★★★★★	Childhood asthma	X101t Childhood asthma
★★★★★	Late onset asthma	X101u Late onset asthma
★★★★★	Asthma unspecified	H33z. Asthma unspecified

1 2 3 4 5 6 7 8 9 10

Frequently used

XA048 Brain tissue injury

Recently used

H33.. Asthma

Click to Select and then Save to record the code.

Save Cancel

Organisation

The term **organisation** is used to describe a PICU, CTS or DGH.

Retrieval / transfer

Yes

Type of transport team

Transport team

Pick...

Clear

Other transport team

Collection unit (or location)

Pick...

Clear

Other collection unit

In order to enter an organisation you will need to click on the **Pick** button.

To delete an organisation, click on the **Clear** button.

Click on the **'Organisation type'** and a list will be generated. Click on the name to select or enter the name in the search box and click **'Search'** (useful for finding a DGH).

Collection unit (or location)

Organisation type ☒ PICU ☐ CTS ☐ DGH ☐ Airport

Organisation name

Search

Clear

None of the these?

[Other organisation](#)

[Unknown organisation](#)

PICU Birmingham Children's Hospital
PICU Bristol Royal Hospital for Children
PICU Cambridge Addenbrooke's Hospital
PICU Cardiff Noah's Ark children's Hospital for Wales
PICU Leeds General Infirmary
PICU Leicester Glenfield Hospital
PICU Leicester Royal Infirmary
PICU Liverpool Alder Hey
PICU London Great Ormond Street Hospital - PICU_NICU
PICU London Evelina Children's Hospital

1 2 3 4

Cancel

For all non-PICU units and wards (including Level 2/HDU units) record the DGH name e.g. Milton Keynes Hospital. You should also record the DGH code for non-PICU units or wards in a hospital with a PICU – these organisations will have a PICU code and a DGH code.

If you can't find the organisation then select **Other organisation** and type in the name.

Events

The events page lists all your organisation's events and provides you with tools to sort your data into a number of useful lists; in particular incomplete and complete events.

Select on the relevant filters and click **apply**.

By clicking on the column heading the list will sort by that field i.e. click on **'Modified on'** and the list will appear in date order.

Events

Use the filter to narrow down the list of your organisation's events. For example, you can show only **incomplete events** or only events that contain **erroneous data**. To sort the list's contents, click a column header to sort the list in ascending order based on that column. Click the same column header again to sort in descending order.

Filter

Event type ☐ Admission (PILOT)

Event date ☒ All ☐ Between and

Section

Completion status ☐ Complete ☐ Incomplete with missing values ☐ Incomplete with warnings ☐ Incomplete with errors

Admission status ☐ Current (on unit) ☐ Discharged ☐ 30 day follow-up overdue

6 events

CS	ET	Event date	Family name	First name	Date of birth	Sex	NHS/CHI/H&C number	Case note number	Postcode	Modified on	Event ID
		31-Aug-2022	MAX	Pepsi	19-Apr-1997	Unknown	Unknown	Unknown	KW147AX	31-Aug-2022 11:32	870394 <input type="button" value="Open"/>
		01-Jul-2022	VOLVIC	Strawberry	01-Oct-2009	Female	Ineligible	54637763	LE5 9RF	31-Aug-2022 11:30	870304 <input type="button" value="Open"/>
		05-Aug-2022	SPRINGWATER	Purelle	07-Aug-2021	Unknown	Unknown	Unknown	Unknown	31-Aug-2022 10:58	870389 <input type="button" value="Open"/>
		22-Aug-2022	ENERGY	Monster	10-May-2016	Male	Ineligible	64352	LE649TF	30-Aug-2022 16:12	870324 <input type="button" value="Open"/>
		23-Jul-2022	VOLVIC	Strawberries	01-Oct-2009	Unknown	243 555 5534	Unknown	LE5 7TH	30-Aug-2022 14:55	870318 <input type="button" value="Open"/>

Importing Events

If you use your own clinical system to collect data, you can export data in a format specified by PICA^{Net} to be imported into the PICA^{Net} LASER system. Click the **Import** menu item.

PICANet Web TrainSacred HeartHomeSearchEventsImportExportReportsNewsContact UsHelpTracy HarrisLog out

Import

Use this page to import your organisation's data in the format defined by the PICA^{Net} Import Schema.
To import PICA^{Net} data, select the file and then click Upload. The file will be validated and then imported into to the database.

Choose fileNo file chosen

Upload

Click **Choose file** and find your import file. Select the file and click **Open**.

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PICANet Web TrainSacred HeartHomeSearchEventsImportExportReportsNewsContact UsHelpTracy HarrisLog out

Import

Use this page to import your organisation's data in the format defined by the PICA^{Net} Import Schema.
To import PICA^{Net} data, select the file and then click Upload. The file will be validated and then imported into to the database.

Choose fileSacred Heart Data_ Jan2017 .xlsx

Upload

Click **Upload** when you have picked the correct file. A summary of the data imported will be displayed.

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Import

PICANet Web successfully imported the file into the database.
View an up-to-the-minute Validation Report
Return to the Dashboard

Summary	
File name:	180203_C08med9_PICANetReferralExtract_2016.xml
File size (bytes):	557503
Import time (seconds):	39.10
Referral events	
Total:	1915
Earliest:	02/01/2016
Latest:	31/12/2016
Transport events	
Total:	0
Earliest:	N/A
Latest:	N/A
Admission events	
Total:	0
Earliest:	N/A
Latest:	N/A
Total admission days:	N/A
Average admission days:	N/A

Exporting Data

To download your organisation's data for local use and analysis click the **Export** menu item and select your event types and dates. PICUs can also download PCCMDS data.

Export

Use this page to export your organisation's data for local use and analysis. Files can take a while to generate depending on the amount of data you request and the current load on our server. When your file has been generated, it will appear in the list of files available to download, below.

Event data PCCMDS Other

Event types ☒ Referrals ☒ ECMD Referrals ☒ Transports ☒ Admissions ☒ = Diagnoses and procedures ☒ = Daily interventions

Event dates ☐ All ☒ Between and

Include ☐ Personally identifiable information ☐ Value labels ☐ Additional derived items
This option is not available because your role does not allow you to export personal data.

[Generate Export File](#)

Files available to download

The list below shows the data files that are currently available for you to download. Files are removed from our server after 24 hours. To copy a file to your computer, click Download on the row that you require.
Please save the file in a secure network location. You **MUST NOT** open the file directly from your browser because it may lead to personally identifiable information being stored on your computer's local drive.

☐ Tick to acknowledge that you are solely responsible for any data you download from PICANet Web

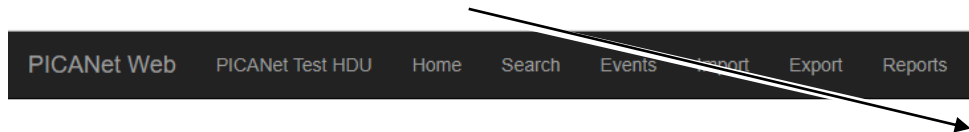
There are no data files available to download.

You can access PCCMDS data by clicking on the **PCCMDS** tab.

You will need to tick the box to acknowledge that you are solely responsible for any data you download from PICANet Web and then click **Generate Export File** to generate the file. Once downloaded, you can open the data will then open in Microsoft Excel

Reports

Click the **Reports** menu item to access live reports for your organisation. If there are additional data/tables you would like to be added to this resource please ask the PICANet team by emailing picanet@leeds.ac.uk.



Reports

Event validation report

Show a list of events with unresolved validation queries

[Open](#)

Validation review tool

Explore an overview of validation queries for your organisation

[Open](#)

Validation Reports.

Units can generate their own validation reports via the reporting tool.

Event validation

Filter

Event type

☐ Admission (PILOT)

Section

Core Dataset

▼ Apply Filter

Clear

Download

Admission (Level 2) events (7)

Event ID 870148	Event date 25-Aug-2022	Event number 680	Case note number Unknown
<div>Admission (Level 2) core dataset</div> <ul style="list-style-type: none">Address line 1 expected – Address line 1 should not be missing (Rule 0.7008)NHS/CHI/H&C number expected – NHS/CHI/H&C number should not be missing (Rule 0.7008)Case note number expected – Case note number should not be missing (Rule 0.7011)Date of birth expected – Date of birth cannot be missing (Rule 0.7012)Date of birth indicator expected – Indicate if date of birth is cannot be missing (Rule 0.7016)Sex expected – Sex cannot be missing (Rule 0.7017)Birth order expected – Birth order cannot be missing. If unknown, enter 9 (Rule 0.7025)Multiplicity expected – Multiplicity cannot be missing. If unknown, enter 9 (Rule 0.7023)PIM eligibility expected – PIM eligibility cannot be missing (Rule 0.7073)Blood glucose source expected – Blood glucose source cannot be missing (Rule 0.7150)Unlikely weight – Expecting a Weight value between 2.5 and 80.0 (Rule 0.7173)Primary diagnosis for this admission expected – Diagnoses and procedures must include a Primary diagnosis for this admission (Rule 0.7195)Operation or procedure performed during this admission expected – Diagnoses and procedures must include an operation or procedure when Type of admission to unit is Planned - following surgery or Unplanned - following surgery (Rule 0.7197)Was a tracheostomy performed during this admission expected – Was a tracheostomy performed during this admission cannot be missing (Rule 0.7199)Status at 30 days post-discharge expected – Status at 30 days post-discharge cannot be missing (Rule 0.7223)			
Event ID 870318	Event date 23-Jul-2022	Event number Unknown	Case note number Unknown
<div>Admission (Level 2) core dataset</div> <ul style="list-style-type: none">Invalid NHS/CHI/H&C number – NHS/CHI/H&C number must be 10 digits long and meet the checksum test (Rule 0.7009)Case note number expected – Case note number should not be missing (Rule 0.7011)Sex expected – Sex cannot be missing (Rule 0.7017)Time of admission to unit expected – Time of admission to unit should not be missing (Rule 0.7035)Admission number expected – Admission number should not be missing (Rule 0.7042)Previous critical care admission expected – Previous critical care admission cannot be missing (Rule 0.7044)Source of admission expected – Source of admission cannot be missing (Rule 0.7045)Retrieval / transfer expected – Retrieval / transfer cannot be missing (Rule 0.7052)			

If you have any additional queries please view the HELP page or contact us

General enquiries – picanet@leeds.ac.uk

or Emily Evans (Research and Audit Assistant) – ece3@leicester.ac.uk

Web Access enquiries – PICANetWebAccess@leeds.ac.uk

Clinical/Diagnosis coding queries – please direct these to the PICANet Inbox where our Research Nurse will pick these up - picanet@leeds.ac.uk