
The Paediatric Intensive Care Audit Network (PICANet)

Project protocol

Version 3.0 January 2013

Document History

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BACKGROUND AND AIMS

The Paediatric Intensive care Audit Network (PICANet) is a national audit of paediatric intensive care activity in the UK and Ireland. It was established in 2001 with the aim of providing a secure and confidential, high quality clinical database of paediatric intensive care activity in England and Wales, including case mix, structure and utilization, to facilitate the following:

- identification of best practice;
- monitoring of supply and demand;
- monitoring and review of outcomes of treatment episodes;
- strategic planning and resource requirements;
- study of the epidemiology of critical illness.

The study now covers the whole of the UK and Ireland. A list of participating organisations and hospital characteristics is given in Appendix A.

This document forms a substantial revision of the protocol submitted to the Research Ethics Committee as the first Substantial Amendment following a change in the way PICANet was managed (version 2.0, September 2006) and subsequent substantial amendments submitted on the 9th August 2007, 22nd January 2009 and 3rd August 2010. It will remain a dynamic document and be reviewed annually and updated following any major change in policy or practice.

FUNDING

PICANet is funded by the National Clinical Audit & Patient Outcomes Programme, administered by the Healthcare Quality Improvement Partnership (HQIP), Welsh Health Specialised Services Committee Specialised Services, NHS Lothian/National Service Division NHS Scotland, the Royal Belfast Hospital for Sick Children, Our Lady's Children's Hospital, Crumlin and the Children's University Hospital, Temple Street from Dublin, Ireland and The Harley Street Clinic, London.

MANAGEMENT AND GOVERNANCE

The PICANet Management Team consists of the Principle Investigators and staff from the Universities of Leeds (PI: Parslow) and Leicester (PI: Draper). This team meets monthly to review progress against the timelines and contract deliverables, to consider any actual or potential barriers to satisfactory progress and to agree the work programme in the long and short term.

The entire project is overseen and guided by the PICANet Steering Group, which consists of external members, representatives from PICANet and the clinical community. The Steering Group oversees the wider governance of the project, providing advice and guidance on policy and operation to ensure that PICANet provides a sound evidence-base for audit and research in paediatric intensive care. The Steering Group has representatives from a broad range of organisations with an interest in paediatric intensive care and include lay representation, the Paediatric Intensive Care Society, and the Royal Colleges of Paediatrics and Child Health, Anaesthetists and Nursing. A full membership list is provided in Appendix B.

In addition to these formal management structures, a Clinical Advisory Group (CAG), whose members represent the paediatric intensive care units (PICUs) that submit data to PICANet. The CAG has the following functions: to provide practical clinical advice to the PICANet team; to act as a forum in which PICU staff can raise practical operational issues about data entry and transmission and validation; to contribute to discussions about the long term strategic development of PICANet; to identify important audit and research questions that the PICANet database could address; and to review the results and interpretation of analyses from a clinical perspective. It also acts as the natural forum for the co-ordination of multi-centre clinical research studies. The CAG has a representative on the Steering Group to give feedback from a clinical perspective. Appendix C contains a list of past and present Clinical Advisory Group Members

The PICANet principle investigators have regular contract review meetings with the main sponsor who monitor contract deliverables and finance and also provide advice on current Government policy objectives.

CONSENT AND CONFIDENTIALITY

PICANet collects patient identifiable information including names, addresses, date of birth and NHS number. With this information, PICANet can identify multiple admissions for the same individual, making the dataset person and episode-based. Personally identifiable information has been linked with death registration details held by the Office for National Statistics (now the Data Linkage Service of the Health and Social Care Information Centre) to assess long-term mortality in children admitted to paediatric intensive care. In addition, national census and other geographical data can be linked with individual children using validated postcodes, enabling PICANet to assess the association between geo-demographic and environmental information and paediatric intensive care admissions as well as assess patient flows across the country.

Collection of personally identifiable data has been approved by the National Information Governance Board (Formerly the Patient Information Advisory Group and now the Health Research Authority Confidentiality Advisory Group)

<http://www.nigb.nhs.uk/s251/registerapp/piagregister190313.xls>. Exemption was given under specified conditions in December 2002 and has been renewed annually since this date.

Ethical approval granted by the Trent Medical Research Ethics Committee, ref.

05/MRE04/17. A list of patient identifiable data items collected and stored by PICANet is given in Appendix D along with justification for their use.

DATASET DEVELOPMENT

The original PICANet data set was established in consultation with members of the PICANet Clinical Advisory Group (CAG) and the Department of Health. The overriding criteria for inclusion of specific variables were that they provided key information on activity, case mix, demographics and outcome at a national and local level, that they were feasible to collect and that the wider PIC community supported their inclusion in the national database.

Subsequent additions to the dataset have been made to include data items that comprise the Paediatric Critical Care Minimum Data Set (PCCMDS)¹, issued in February 2007 and the PICANet transport and referrals dataset. Data definitions are available in the PICANet Dataset Manual available at:

<http://www.picanet.org.uk/Documents/General/PICANet%20Dataset%20Manual%20Version%203.pdf>, and the Referral and Transport Dataset Manual at:

¹http://www.datadictionary.nhs.uk/data_dictionary/messages/supporting_data_sets/data_sets/paediatric_critical_care_minimum_data_set_fr.asp

http://www.picanet.org.uk/Documents/General/Referral_and_Transport_Data_Definitions_2011-10-24.pdf

Data entry is via a secure web-based application called PICANet Web, either directly or via an upload facility for PICUs that have their own in-house database systems. Appendix E gives an overview of how users input, validate and report on their data using PICANet Web. Training for data entry is carried out on site and at larger training sessions hosted by the PICANet project. There is further guidance available for users on the PICANet website, www.picanet.org.uk.

VALIDATION OF DATA

Data validation is carried out at the point of data entry on the web system and centrally on the database. Validation checks for logical inconsistencies, out of range values and incorrect data are reported back to the individual PICUs on demand via the web interface (see Appendix E). In addition, validation visits are also carried out by PICANet staff to verify submitted data against hospital notes and check on admissions numbers. These validation visits are vitally important to maintain contact with PICU staff and to pick up on systematic errors that may appear in the data, following staff changes.

REPORTING

PICANet produces an annual report on all data for the previous 3 calendar years in the Autumn. All the reports that have been published are available on the PICANet website at www.picanet.org.uk. Local reports are available to contributing PICUs with the option of downloading aggregated data from all PICUs for comparison from PICANet Web.

DATA REQUEST AND PUBLICATION PROCEDURES

Requests are sent to the chair of the Paediatric Intensive Society Study Group to ensure that there is good collaboration in the clinical community and no overlap of effort. The chair, currently Dr Mark Peters from Great Ormond Street, is able to give advice to applicants on their proposals and suggest collaborations.

All data requests also have to complete the HQIP National Clinical Audit and Patient Outcome Programmes data access process and sign the Data Sharing Agreement. (<http://www.hqip.org.uk/national-clinical-audit-and-patient-outcomes-programme-data-access-request-process/>)

PICANet publishes all data and information requests on our website (www.picanet.org.uk).

Anyone who receives data or information from PICANet must provide a written response on how the data has been used and acknowledge PICANet in all presentations and reports. In the case of publication, it is expected that a member of the PICANet team will be included as an author and therefore will have reviewed the manuscript and contributed to the analysis and interpretation. Appendix F outlines our policy on use of data, publication and authorship.

Appendix A: Participating units and hospital characteristics

NHS Trust	Participating Hospital	Unit / Ward	Number of ITU beds	Number of HDU beds	Type of unit
Barts and the London NHS Trust	The Royal London Hospital	PCCU	2 ventilated beds	4	General
Birmingham Children's Hospital NHS Trust	Birmingham Children's Hospital	PICU	26	0	General
Brighton & Sussex University Hospitals NHS Trust	The Royal Alexandra Children's Hospital	L8 PICU	1	6	General
Cambridge University Hospitals NHS Foundation Trust	Addenbrooke's Hospital	PICU	8 ¹	3	General
Cardiff & Vale NHS Trust	University Hospital of Wales	PICU	7	0	General
Central Manchester University Hospitals NHS Foundation Trust	Royal Manchester Children's Hospital	PICU	17	0	General
Great Ormond Street Hospital for Children NHS Trust	Great Ormond Street Hospital for Children	CCCU	17	0	Cardiac
		PICU & NICU	22	0	General & Neonatal Unit
Guy's & St. Thomas' NHS Foundation Trust	Evelina Children's Hospital	PICU	18	0	General & Cardiac
HSE (Health Services Executive)	Children's University Hospital, Temple Street, Dublin	PICU	9	0	General
	Our Lady's Children's Hospital, Crumlin, Dublin	PICU	18	5	General & Cardiac
Hull & East Yorkshire Hospitals NHS Trust	Hull Royal Infirmary	PICU beds on AITU	2	4 ²	Adult ICU providing General PICU
King's College Hospital NHS Trust	King's College Hospital	PICU	8	8	General & Hepatic & Neurosurgical
Leeds Teaching Hospitals NHS Trust	Leeds General Infirmary	Wards L2 & L7	16	0	General & Cardiac
Newcastle Upon Tyne Hospitals NHS Foundation Trust	Great North Children's Hospital ³	PICU	11	0	General & Surgical ICU
	Freeman Hospital	PICU Freeman	10	0	Cardiothoracic surgery, heart failure, ECMO & ENT
NHS Lothian – University Hospitals Division	Royal Hospital for Sick Children, Edinburgh	PICU	8	6 ⁴	General (plus neurosurgical and spinal)

NHS Trust	Participating Hospital	Unit / Ward	Number of ITU beds	Number of HDU beds	Type of unit
NHS Greater Glasgow and Clyde – Women and Children’s Division	Yorkhill Hospital, Glasgow	PICU	17	7	General, Cardiac & ECMO
Oxford University Hospitals NHS Trust	The John Radcliffe Hospital	PCCU	8 ⁵	8	General (plus neurosurgical)
Nottingham University Hospitals NHS Trust	Queen’s Medical Centre	PICU	6	4	General (plus Regional oncology, major trauma, ENT, paediatric surgery, regional neurosurgical, spinal, supraregional renal service and cleft lip & palate services)
Royal Brompton & Harefield NHS Foundation Trust	Royal Brompton Hospital	PICU	12 ⁶	4	Cardiac & Respiratory
Royal Liverpool Children’s NHS Trust	Liverpool Alder Hey Children’s Hospital	PICU	22	0	General & Cardiac
Sheffield Children’s NHS Foundation Trust	Sheffield Children’s Hospital	PCCU	9	9	General, major trauma, neurosurgery, ENT, oncology, metabolic, paediatric surgery, spinal
		Neonatal Surgical Unit	2	0	Neonatal Surgical Unit
Southampton University Hospitals NHS Trust	Southampton General Hospital	PICU	12 ⁷	10 ⁸	General & Cardiac
South Tees Hospitals NHS Trust	James Cook University Hospital	PICU	4	3	General
St. George’s Healthcare NHS Trust	St. George’s Hospital	PICU	5	3 ⁹	General, Neurosurgical, Oncology & Paediatric Surgery
St. Mary’s NHS Trust	St. Mary’s Hospital	PICU	8	2	General
The Lewisham Hospital NHS Trust	University Hospital, Lewisham	PICU	1 ¹⁰	2	General & Surgery
Belfast Health and Social Care Trust	Royal Belfast Hospital for Sick Children	PICU	8 ¹¹	0	General
University Hospitals Bristol NHS Foundation Trust	Bristol Royal Hospital for Children	PICU	15 ¹²	0	General & Cardiac
University Hospitals of Leicester NHS Trust	Leicester Royal Infirmary	CICU	9 ¹³	5 ¹⁴	General
	Glenfield Hospital	PICU	12 ¹⁵	0	Cardiac & ECMO

NHS Trust	Participating Hospital	Unit / Ward	Number of ITU beds	Number of HDU beds	Type of unit
University Hospital of North Staffordshire NHS Trust	University Hospital of North Staffordshire	PICU	6	1	General
Non NHS	The Harley Street Clinic	PICU	13	5	General & Cardiac

1 Increasing to 9 ITU and 4 HDU beds effective from April 2013.

2 With capacity to ventilate two patients on the Adult ICU.

3 In 2010 the General and Royal Victoria PICU's merged within the Great North Children's Hospital.

4 At times funded for 10 ITU and 6 HDU beds.

5 2 ITU/ HDU beds are used flexibly when invasive ventilation is required.

6 ITU/ HDU beds are used flexibly.

7 From 1st June 2012 unit has 12 beds. Previously 13.

8 HDU beds are in 2 separate HDU units (4 Cardiac and 6 General).

9 Additional 2 beds available if needed.

10 Now closed.

11 The unit is anaesthetist-led and only admits patients under 13 years unless remaining under the care of an existing Paediatrician. Increasing to 12 beds in June 2013.

12 15 staffed ITU beds in 18 space unit.

13 9 ITU beds but only 6 staffed.

14 5 HDU beds on adjacent ward (not part of PICU).

15 12 ITU beds but only 6 staffed.

Appendix B: PICANet Steering Group Membership

Name	Position	Organisation	Representation	Period Served
Ms Sue Burkin	Lead Nurse	Sheffield Children's Hospital	PICS Nurse Managers Group	2013 - present
Dr Anthony Chisakuta	Lead Clinician	Belfast Health and Social Care Trust Royal Belfast Hospital for Sick Children	Northern Ireland	2008 - present
Dr Mark Darowski	Consultant Paediatric Anaesthetist	Leeds Teaching Hospitals NHS Trust Leeds General Infirmary PICU	Royal College of Anaesthetists	2002 - present
Dr Peter Davis	Consultant in Paediatric Intensive Care	University Hospitals Bristol NHS Foundation Trust Bristol Royal Hospital for Children	Chair of PICANet CAG	2011 - present
Ms Helen Laing	Contracts and Commissioning Manager	Healthcare Quality and Improvement Partnership (HQIP)	Healthcare Quality and Improvement Partnership (HQIP)	2004 - present
Dr Michael Marsh	Consultant in Paediatric Intensive Care	Southampton University Hospitals NHS Trust Southampton General Hospital PICU	Royal College of Paediatrics and Child Health	2002 - present
Dr Jillian McFadzean / Ms Laura Reekie	Consultant in Anaesthesia & Intensive Care / PA	NHS Lothian – University Hospitals Division Edinburgh Royal Hospital for Sick Children	Edinburgh Royal Hospital for Sick Children	2005 - present
Dr Kevin Morris	Consultant in Paediatric Intensive Care	Birmingham Children's Hospital NHS Trust Birmingham Children's Hospital PICU	Chair of Paediatric Intensive Care Society	2006 - present
Professor John Newton (Chair)	Regional Director of Public Health	South Central Strategic Health Authority	Public Health England	2009 - present
Dr Mark Peters	Clinical Unit Chair	Great Ormond Street Hospital for Children Great Ormond Street Hospital, London	Chair of Paediatric Intensive Care Society Study Group	2008 - present
Dr Kathy Rowan / Lucy Lloyd Scott	Director / Casemix Programme Manager	Intensive Care National Audit & Research Centre (ICNARC)	Intensive Care National Audit & Research Centre (ICNARC)	2002 - present
Mr Stuart Rowe	PCT Commissioner	Commissioning Department Hammersmith & Fulham PCT	PCT Commissioner (Pan-Thames)	2003 - present
Dr Mark Terris	Consultant Anaesthetist	Belfast Health and Social Care Trust Royal Belfast Hospital for Sick Children	Northern Ireland	2008 - present

Ms Dominique Gray Williams	Audit Co-ordinator	Welsh Health Specialised Services Committee	Welsh Health Specialised Services Committee	2003 - present
Ms Lucy Wheeler	Parent	N/A	Parent representation	2011 - present
Dr Peter Wilson	Clinical Director for Child Health	Southampton General Hospital	PICS Secretary	2011 - present

Appendix C: PICANet Clinical Advisory Group Members

Name	Position	NHS Trust / Hospital	Period served
Dr Rachel Agbeko	Paediatric Intensivist	Great North Children's Hospital Newcastle upon Tyne Hospitals NHS Foundation Trust	2012 - present
Dr John Alexander	Consultant in Paediatric Intensive Care	University Hospital of North Staffordshire NHS Trust Stoke On Trent City General	2012 - present
Dr Anthony Chisakuta (shared with Elizabeth McKinty)	Lead Clinician	The Royal Group of Hospitals & Dental Hospital HSS Trust Royal Belfast Hospital for Sick Children	2008 - present
Kathryn Claydon - Smith	Clinical Nurse Specialist	Central Manchester & Manchester Children's University Hospitals NHS Trust Royal Manchester Children's Hospital	2009 - present
David Cope	Clinical Nurse	Sheffield Children's Hospital	2012 - present
Dr Peter Davis (Chair)	Consultant in Paediatric Intensive Care	University Hospitals Bristol NHS Foundation Trust Royal Hospital for Children	2006 - present
Dr Andrew Durward (sharing with Dr Shane Tibby)	Consultant in Paediatric Intensive Care	Guy's & St Thomas' NHS Foundation Trust Evelina Children's Hospital	2002 - present
Dr Hilary Klonin	Consultant in Paediatric Intensive Care	Hull & East Yorkshire Hospitals NHS Trust Hull Royal Infirmary	2002 - present
Helen Laing	Contracts and Commissioning Manager	Healthcare Quality and Improvement Partnership (HQIP)	2008 - present
Ms Tina McClelland	Audit Sister	Royal Liverpool Children's NHS Trust Alder Hey Hospital	2006 - present
Dr Jillian McFadzean (representing Scotland)	Consultant in Paediatric Intensive Care	NHS Lothian – University Hospitals Division Edinburgh Royal Hospital for Sick Children	2005 - present
Elizabeth McKinty (shared with Anthony Chisakuta)	Sister	The Royal Group of Hospitals and Dental Hospital HHS Trust Royal Belfast Hospital for Sick Children	2008 - present

Dr Cathy McMahon	Consultant in Paediatric Intensive Care	Our Lady's Children's Hospital, Crumlin, Dublin 12 and The Children's University Hospital, Dublin	2011 - present
Dr Roddy O'Donnell	Consultant in Paediatric Intensive Care	Cambridge University Hospitals NHS Foundation Trust Addenbrooke's Hospital	2002 - present
Dr Paula Lister	Consultant Paediatric Intensivist	Great Ormond Street Hospital for Children NHS Trust Great Ormond Street Hospital for Sick Children	2012 - present
Dr John Pappachan (shared with Peter Wilson)	Anaesthetics and Paediatric Intensive Care Medicine	Southampton Universities Hospital NHS trust Southampton General Hospital	2012 - present
Dr Nazima Pathan	Consultant in Paediatric Intensive Care	Royal Brompton and Harefield NHS Trust Royal Brompton Hospital	2012 - present
Dr Adrian Plunkett	Consultant Paediatric Intensivist	Birmingham Children's Hospital NHS Trust Birmingham Children's Hospital	2012 - present
Dr Padmanabhan Ramnarayan	Consultant	Children's Acute Transport Service, Great Ormond Street Hospital NHS Trust	2012 - present
Dr Kay Rushforth	Senior Sister	Leeds Teaching Hospitals NHS Trust Leeds General Infirmary	2012 - present
Dr Shane Tibby (Shared with Dr Andrew Durward)	Consultant in Paediatric Intensive care	Guys and St Thomas Foundation Trust Evelina Children's Hospital	2011 - present
Dr Allan Wardhaugh (representing Wales)	Consultant in Paediatric Intensive Care	Cardiff & Vale NHS Trust University Hospital of Wales	2004 - present
Dr Peter Wilson (shared with John Pappachan)	PICU Consultant	Southampton General Hospital Southampton Universities Hospital NHS trust	2011 - present

Appendix D: Patient identifiable data items collected by PICANet

Section	Variable	Field Name	Description	Justification
Admission	Admission number	ADNO	Unique admission number from PICU admissions book - usually incremental over a calendar year. This number could be used to establish an individual's identity by referring back to the admissions book. May not be used in all PICUs.	Enables easy internal reference back to an individual in the PICU if there are queries relating to data items collected. Only possible to identify an individual from this number by reference to the PICU admissions book.
Admission	NHS number	NHSNO	Unique national identifier assigned to an individual following birth registration (now assigned by midwives at birth in accordance with the 'NHS Numbers for babies' project). Can also be assigned on entry to the UK from another country.	Once validated, the NHS number provides a unique identifier for an individual that can be used to link to other personal information within a secure information system such as the National Strategic Tracing Service but does not in itself provide information on an individuals' name, address or date of birth.
Admission	Case note number	CASENO	Hospital based identifier: assigned to patients to enable notes to be tracked and for computerised patient administration. Also called Unit Number/Patient Identifier	Unique hospital patient identifier that allows retrieval of personal and clinical data from the hospital Patient Administration System (PAS) by the PICU to confirm discharge dates etc. Only provides information on individuals for those who have access to PAS and this is controlled locally.
Admission	Family name	FAMILYNAME	Family name by which patient is currently known	Required to identify individual who may have multiple admissions to one or PICUs. It is important that multiple admissions by the same individual can be correctly identified to enable assessment of service delivery and to validate descriptive epidemiology.
Admission	2nd Family name	FAMILYNAME2	Other family name by which patient has been known	This additional identifier is required for the same reasons as family name
Admission	First name	FIRSTNAME	Given name by which patient is known	First name is required for same reasons as family name
Admission	Address	ADDRESS	Current residential address of patient. This could change and changes would be recorded	A full residential address is required to enable geographic and demographic information to be linked to the patient for epidemiological analysis and assessment of health services delivery. Postcode alone is not sufficient as many postcodes are recorded inaccurately and a full address is required for robust

Section	Variable	Field Name	Description	Justification
				address validation.
Admission	Postcode	POSTCODE	Postcode relating to current residential address	The patient's postcode provides a means of linkage to geographic and demographic information. On its own it would not necessarily identify an individual but when combined with other information it could be used to increase the likelihood of doing so. The full postal address is required to validate the postcode.
Admission	Date of birth	DOB	Date of birth of patient	Date of birth is necessary to crosscheck the identity of individuals (for instance when a name is recorded with different spelling variants). It is also required to calculate age at admission/discharge, information that is directly relevant to the clinical audit of PICU. Although not specific to an individual, could be used in combination with other information to identify them.
Admission	Multiple birth	MULT	If patient was part of a multiple birth (twin, triplets etc.)	By identifying multiple births, problems with identifying individuals with the same date of birth and family name can be overcome. This would be used rarely in the context of PICU as neonates who have not been given first names are usually treated in a neonatal intensive care unit. Unusually large multiple births could identify a family or individual by virtue of their rarity.
Admission	Sex	SEX	Sex of patient	Required for effective clinical audit of PICU and epidemiological analysis. Also useful as a check identifier. Does not specifically identify an individual.
Admission	Ethnic origin	ETHNIC	Ethnic origin given by patient or parents	Required for epidemiological analysis and assessment of health services delivery. Potentially of value in clinical audit in conjunction with other clinical data. Not capable of identifying specific individual except in combination with other information.
Admission	Other ethnic origin	ETHNICOTHER	Other ethnic origin if not covered by categories given above	As above.

Section	Variable	Field Name	Description	Justification
Discharge	Dead: Date of death	DOD	Date of death of patient	Required information for clinical audit, epidemiological analysis and assess. May also be used in cross-checking identity (e.g. an individual with the same date of birth and name could be successfully identified as different if date of death is recorded).

Appendix E: PICANet Web Quick User Guide



PICANet Web

User Guide

PICANet Web Quick User Guide

The new PICANet database is hosted in the University of Leeds' Secure Electronic Environment for Data (SEED) system.

Logging-In

Open the system by going to:

<https://seed.leeds.ac.uk/picanet>

Note the **https** which indicates a secure server. You will get this dialog box.



Enter your University of Leeds **User name** (e.g.medtjf) and **Password**.

Home

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

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. Updates from PICANet.
Tasks	The number of events with incomplete data and/or errors. A list of these events can be access these by clicking either incomplete events or errors .
Quick View	You can quickly pull up individual events by typing in the Event ID and clicking open . This will take you straight to the event screen.
Featured Report	The feature report displayed gives an instant view of the unit's data when you log-in. You can click More reports to see more detailed reports.
Most recently modified events	Recently edited events will be displayed so you can quickly get to the events you are currently working on.

The new database functions similarly to the current database in terms of data entry, but extends the functionality by allowing for the capture of transport and referral data, and allowing real-time validation and reporting of your data.

Two key points to note:

- Now that referrals and transport data are captured in addition to admissions, the term **event** is used to describe any one of these three things.
- Centralised Transport Services (CTS) and District General Hospitals (DGH) are involved in referrals and transports therefore the term **organisation** is used to describe a PICU, CTS or DGH.

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

- include **NHS number**
- include **Case note number** and one of **Family name, Postcode or Date of birth**
- include **at least 3** different search terms

All terms contributing towards the criteria must contain at least 3 characters. This is a security feature since the search screen allows to you view patients who have been admitted to other PICUs or transported by a CTS. You can not 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.

First name Case note number
Postcode Date of birth

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

- include **NHS number**
- include **Case note number** and one of **Family name, Postcode or Date of birth**
- include **at least 3** different search terms

All terms contributing towards the criteria must contain at least 3 characters.

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

When you have entered a valid search, your results will be displayed.

PICANet Web Holby City Hospital DSIFairhead Log out

Home Search Events Import Reports Contact Us Help

Search

You must search for a patient before you can add a new event. Matching patients are listed according to the strength of the match. To see a patient's events, click the patient's header row to expand the panel.

- To **add an event for an existing patient** (i.e. a patient who is displayed in the results), expand the panel, and then click Add Referral, Add Transport or Add Admission.
- To **view, edit or delete** a patient's event, expand the panel and click Open on the relevant row. You may only open events that belong to your organisation.
- To **create a new event for a new patient** (i.e. a patient who is not displayed in the results), click New Referral, New Transport or New Admission.

Family name NHS number
First name Case note number
Postcode Date of birth

Results

3 patients matched **JOHNSON, CARL, 05/07/2005** (0.0 seconds)

[New Referral](#) [New Transport](#) [New Admission](#)

★★★★★	JOHNSON, Carl	Born 05-Jul-2005	Sex Unknown	NHS no Unknown	(1 event)
★★★★★	JOHNSON, Carl	Born 05-Jul-2005	Sex Male	NHS no 555 100 1237	(1 event)
★★★★★	JOHNSON, Carl	Born 05-Jul-2005	Sex Male	NHS no 555 100 1237	(1 event)

[Add Referral](#) [Add Transport](#) [Add Admission](#)

	Family name	First name	Date of birth	Sex	NHS number	Case note number	Postcode	Event date	
<input type="checkbox"/>	JOHNSON	Carl	05-Jul-2005	Male	555 100 1237	555123	LE1 6TP	01-Aug-2011	Open

< Previous Next > Patients 1 to 3 of 3

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

The number of events already in the database for that patient is displayed.

Searching for a patient *(continued)*

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 can add a new event. Matching patients are listed according to the strength of the match. To see a patient's events, click the patient's header row to expand the panel.

- To **add an event for an existing patient** (i.e. a patient who is displayed in the results), expand the panel, and then click Add Referral, Add Transport or Add Admission.
- To **view, edit or delete** a patient's event, expand the panel and click Open on the relevant row. You may only open events that belong to your organisation.
- To **create a new event for a new patient** (i.e. a patient who is not displayed in the results), click New Referral, New Transport or New Admission.

Family name: NHS number:
 First name: Case note number:
 Postcode: Date of birth:

Results
 3 patients matched **JOHNSON, CARL, 05.07.2005** (0.0 seconds)
[New Referral](#) [New Transport](#) [New Admission](#)

★★★★★	JOHNSON, Carl	Born 05-Jul-2005	Sex Unknown	NHS no. Unknown	(1 event)
★★★★★	JOHNSON, Carl	Born 05-Jul-2005	Sex Male	NHS no. 555 100 1237	(1 event)
★★★★★	JOHNSON, Carl	Born 05-Jul-2005	Sex Male	NHS no. 555 100 1237	(1 event)

[Add Referral](#) [Add Transport](#) [Add Admission](#)

	Family name	First name	Date of birth	Sex	NHS number	Case note number	Postcode	Event date	
<input type="checkbox"/>	JOHNSON	Carl	05-Jul-2005	Male	555 100 1237	555123	LE1 6TP	01-Aug-2011	Open

< Previous Next > Patients 1 to 3 of 3

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Clicking the patient will expand the details and show you those events.

If the event is associated with your organisation you will be able to see the Case note number and the Postcode, and an **Open** link will be displayed to allow you to open the event.

The Event Type

Icon	Description
A	Admission
R	Referral
T	Transport

Creating an Event

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

Results
 3 patients matched **JOHNSON, CARL, 05.07.2005** (0.0 seconds)
[New Referral](#) [New Transport](#) [New Admission](#)

★★★★★	JOHNSON, Carl	Born 05-Jul-2005	Sex Unknown	NHS no. Unknown	(1 event)
★★★★★	JOHNSON, Carl	Born 05-Jul-2005	Sex Male	NHS no. 555 100 1237	(1 event)
★★★★★	JOHNSON, Carl	Born 05-Jul-2005	Sex Male	NHS no. 555 100 1237	(1 event)

[Add Referral](#) [Add Transport](#) [Add Admission](#)

	Family name	First name	Date of birth	Sex	NHS number	Case note number	Postcode	Event date	
<input checked="" type="checkbox"/>	JOHNSON	Carl	05-Jul-2005	Male	555 100 1237	555123	LE1 6TP	01-Aug-2011	Open

< Previous Next > Patients 1 to 3 of 3

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If the patient you want to enter an event for is displayed, click the **Add Referral**, **Add Transport** or **Add Admission** link displayed (you will need to expand that patient to see these).

If the patient you are looking for is not in the database, click the **New Referral**, **New Transport** or **New Admission** 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.

The patient banner displays the details of the patient .

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

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

When a new event is created the error list generated includes all missing data. When you enter data the list will update automatically , the list will diminish as 'missing' data is entered. You can click on the '**Tick if correct**' box on any error that should be ignored (for example if the patient was older than 17 years). You can save an incomplete event and come back

Each event has a shield displaying the status of this event

ICONS

Icon	Description	Status
	Checked green shield	Indicates an event is complete
	Blue shield	Indicates an event has one or more missing values
	Yellow shield	Indicates an event has one or more warnings
	Red shield	Indicates an event has one or more errors

Data Entry

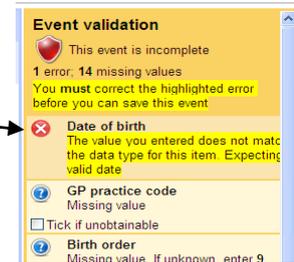
For PICANet DE the return key was used to move between fields. For PICANet Web the **Tab key** should be used. The following date and time formats are acceptable.

DATES

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

Format	Example
hh:mm	9:00
hhmm*	0900

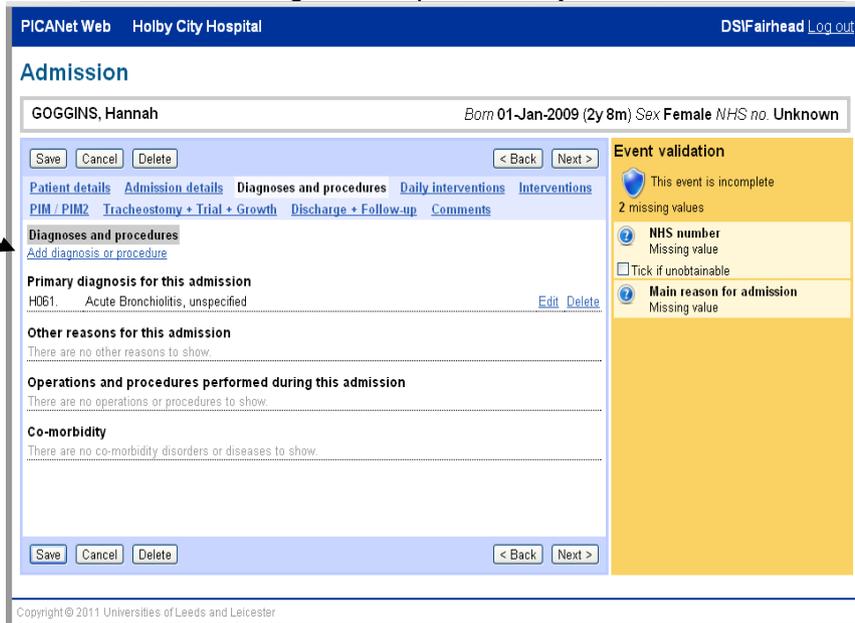
* These formats are shortcuts and require leading zeros i.e. 3102011 will not be accepted an error message will be listed in the Event validation list 03102011 will be accepted. The system will automatically insert the appropriate separator.



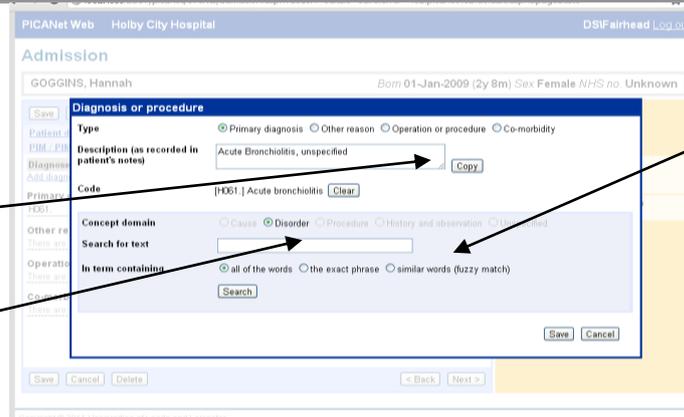
Diagnoses and procedures

As with PICANet DE, in order to enter a diagnosis or procedure you need find the relevant READ code.

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



As with PICANet DE the text is noted and then click on the 'copy' to paste the text in the 'search for text' box.



The search engine has the option to look for:-
 'all of the words', 'the exact phrase' or 'similar words'.

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

Type Primary diagnosis Other reason Operation or procedure Co-morbidity

Description (as recorded in patient's notes)

Code None (Find and select a code using the section below)

Concept domain Cause Disorder Procedure History and observation Unspecified

Search for text

In term containing all of the words the exact phrase similar words (fuzzy match)

24 items (0.2 seconds)

Rating	Code	Description	
★★★★★	XSDOK	Bronchiolitis	Select
★★★★★	H061	Acute bronchiolitis	Select
★★★★★	H061z	Acute bronchiolitis NOS	Select
★★★★★	X1011	Bronchiolitis obliterans	Select
★★★★★	X100C	Acute viral bronchiolitis	Select
★★★★★	X1011	Obliterative bronchiolitis	Select
★★★★★	H0613	Acute exudative bronchiolitis	Select
★★★★★	H0610	Acute capillary bronchiolitis	Select
★★★★★	H4641	Toxic bronchiolitis obliterans	Select
★★★★★	X1011	OB - Obliterative bronchiolitis	Select

Click on 'select' and then 'Save' to enter the code.

Organisation

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

In order to enter an organisation you will need to click on the 'pick' button

Referral

HOBBY, Hortense Born 13-Mar-2009 (2y 6m) Sex Female NHS no. Unknown

[Patient details](#) [Referral details](#) [Comments](#)

Referral details

Date and time of referral call

Referring unit

Other

Referring speciality

Grade of referring doctor or nurse

Was patient receiving invasive ventilation at time of referral call

Decision of this referral call

Transport team

Other

Destination unit (or location)

Other

Event validation

This event is incomplete

5 missing values

- NHS number
Missing value
 Tick: if unobtainable
- Referring unit
Missing value
 Tick: if unobtainable
- Referring speciality
Missing value
 Tick: if unobtainable
- Transport team
Missing value
 Tick: if unobtainable
- Destination unit
Missing value
 Tick: if unobtainable

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To delete an organisation, click on 'Clear'.

PICANet Web Holby City Hospital DSIFairhead Log out

Transport

JOHNSON, Carl Born 05-Jul-2005 (6y 2m) Sex Male NHS no. 555 100 1237

Destination unit (or location)

Organisation type: PICU OCS DGH Airport

PICU organisations

Search by name: Search Clear

35 organisations

Organisation name

- [PICU] Belfast Royal Belfast Hospital for Sick Children
- [PICU] Brighton Royal Alexandra Hospital
- [PICU] Bristol Royal Hospital for Children
- [PICU] Cambridge Addenbrooke's Hospital
- [PICU] Cardiff University Hospital of Wales
- [PICU] Dublin Children's University Hospital Temple Street
- [PICU] Dublin Our Lady's Children's Hospital Crumlin
- [PICU] Edinburgh Royal Hospital for Sick Children
- [PICU] Glasgow Yorkhill
- [PICU] Great North Childrens Hospital

1 2 3 4

Most frequently used

- [PICU] Holby City Hospital
- [PICU] Brighton Royal Alexandra Hospital
- [PICU] Bristol Royal Hospital for Children
- [PICU] Cambridge Addenbrooke's Hospital
- [PICU] Cardiff University Hospital of Wales
- [PICU] Leeds General Infirmary
- [PICU] Leicester Glenfield Hospital
- [PICU] Leicester Royal Infirmary
- [PICU] Liverpool Alder Hey
- [PICU] London Great Ormond Street Hospital

Most recently used

- [PICU] Holby City Hospital
- [PICU] Glasgow Yorkhill

None of the above?

- Other organisation Unknown organisation

Cancel

Did a medical technician accompany the patient? Yes

Did a parent accompany the patient? Yes

Outcome of this transport event Patient transported

Destination type Ward

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).

You can also pick from the 'Most frequently used' list

If you can't find the organisation then click '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.

PICANet Web Holby City Hospital DSIFairhead Log out

Home Search Events Import Reports Contact Us Help

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](#). In due course, we will add more filters based on the feedback we receive from users.

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: Referral Transport Admission

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

Admission status (PICUs only): Current (on unit) Discharged 30 day follow-up overdue

Apply Clear

5 events

CS	ET	Event date	Family name	First name	Date of birth	Sex	NHS number	Case note number	Postcode	Modified on
	R	01-Oct-2010	FIELD	Jamie	07-Jun-2010	Male	555 324 4935	Unknown	HUS 1TF	16-Sep-2011 17:55 Open
	T	01-May-2011	JOHNSON	Carl	05-Jul-2005	Male	555 100 1237	Unknown	LE1 6TP	16-Sep-2011 17:51 Open
	A	01-Aug-2011	JOHNSON	Carl	05-Jul-2005	Male	555 100 1237	555123	LE1 6TP	16-Sep-2011 17:41 Open
	A	26-May-2010	GOGGINS	Hannah	01-Jan-2009	Female	Unknown	111111	SE1 1AA	16-Sep-2011 17:07 Open
	R	01-Aug-2011	SMITH	Tom	01-Sep-2000	Male	Unknown	Unknown	Unknown	05-Sep-2011 17:05 Open

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Click 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

Importing Events

If you use your own clinical system to collect data, you can export data in a format specified by PICANet to be imported into the PICANet SEED system. Click the **Import** menu item.

If you are associated with more than one organisation, a warning will be displayed so you can check that your are importing data for the correct organisation.

Home Search Events Import Export Reports PCCMDS PCCMD

Import

Use this page to import your organisation's data in the format defined by the PICANet Import XML Schema file.

WARNING: Your PICANet user name is associated with more than one organisation. If the data file you want to import does not belong to Leeds General Infirmary, please [select the relevant organisation](#) before you continue.

To import PICANet data, click Browse, and then select the file. After you have selected the file, click Upload. The file will be uploaded to the database.

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

Choose File to Upload

File name: picanet test data.xml

All Files (*.*)

Import

PICANet successfully imported the file into the database.

[Return to the Dashboard](#)

Summary

Import details

File name: picanet test data.xml
 File size (bytes): 2,855
 Import time (s): 4.52

Referral events

Total: 0
 Earliest: N/A
 Latest: N/A

Transport events

Total: 0
 Earliest: N/A
 Latest: N/A

Admission events

Total: 1
 Earliest: 26/05/2010
 Latest: 26/05/2010
 Total activity days: 1
 Average activity days: 1

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

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. PICU's can also download PCCMDS data.

Home Search Events Export Reports Contact Us Help

Export

You can download your organisation's data for local use and analysis. PICUs can also download PCCMDS data.

Event Data **PCCMDS**

Event types: Referral Transport Admission

Event dates: All Between 01/11/2011 and: 27/11/2012

Include Personally Identifiable Information

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

PICU's 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 **Export**. The data will then open in Microsoft Access.

Reports

Click the **Reports** menu item or click **More reports** from the *Quick Reports* panel on the dashboard screen to access reports. If there are additional data/tables you would like please ask for these directly from the PICANet team by emailing picanet@leeds.ac.uk.

Hover over the category of report you want to run, e.g. **Admissions** and a list of quick reports will be displayed

You can choose between your own data being displayed or data from all PICUs.

The screenshot shows the reporting tool interface. At the top, there is a navigation menu with options: Home, Search, Events, Import, Reports, Contact Us, Help. Below this is a sub-menu: Admissions, Referrals, Transport, Validation. The main area has a header 'Select a report from the menu above' and 'Show data for: Your PICU | All PICUs'. There are date filters: 'Date from: 21/09/2010' and 'Date to: 20/09/2011'. A 'View Report' button is on the right. Below the filters is a bar chart titled 'Admissions by age and sex' showing admissions by age (0-14) and sex (Male, Female, Ambiguous, Unknown). A data table is shown below the chart, with columns for Age/Year, Male, Female, Ambiguous, Unknown, and Total. A 'View Report' button is also present in the table area.

Default values are set for parameters. To adjust parameters, simply change the value and click **View Report** to update the report.

All reports will have an associated table detailing the figures used. This will either appear on the bottom of the report or for larger graphs, on a second page.

Click on this button to save the report.

Click on the required format.

Validation Reports

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

The screenshot shows a 'Validation Report' page. It lists several events with outstanding data validation issues. Each event entry includes: Event Type, Event Date, EventID, Reference No, Case Note No, Date Of Birth, and NHS No. Below each event, there is a table with columns: RuleID, Title, and Message. The messages indicate missing values for certain fields. A 'View Report' button is visible at the bottom right of the report area.

As with other reports the validation report can be saved in various formats.

Appendix F: Data and information requests policy

PICANet

Data and information requests: policy on use of data, publication and authorship

Version 1.2.1 February 2011

Document History

Version	Author	Date	Comments
1.1	Roger Parslow	26/10/2010	First draft
1.2	Roger Parslow	09/02/2011	Second draft following comments from Steering Group
1.2.1	Roger Parslow	11/02/2011	Minor modifications from Mark Peters, Chair of PICS SG

The purpose of this document

This document sets out the information governance policies that apply to the provision and use of data supplied by the Paediatric Intensive Care Audit network (PICANet) including the publication and dissemination of analyses in the form of reports and peer-review journal articles.

It also provides guidelines on how authorship is determined and how the contribution of all those involved in the collection, validation and analysis of data are acknowledged.

It supersedes the following documents:

PICANet Publication Procedures Version 1.2 July 2006
Policy / procedure for the release of PICANet data July 2006
Request procedures July 2006

The PICANet dataset and routine reporting

PICANet collects demographic and clinical data on all children admitted to designated Paediatric Intensive Care Units (PICUs) in the UK and Eire.

Each admission constitutes an episode, and an individual may have a number of episodes within the database. Episodes may be aggregated by individual PICU or by census/administrative geographies using standard postcode lookup tables (the National Statistics Postcode Directory).

Annual reports are produced that include a large amount data on activity and outcome for contributing PICUs. Individual PICUs also receive calendar and financial year reports detailing activity.

The proposed PICANet Web Access Reporting Tool will provide dynamic access to reports and enable PICUs to query their own data.

Information governance

Demographic details from Eire are anonymised in accordance with the requirements of the Irish Data Protection Officer. PICANet has permission to collect patient identifiable data under section 251 of the NHS Act 2006 (originally enacted under Section 60 of the Health and Social Care Act 2001).

1.1 Release of data

Any data released to a third party will be anonymised in accordance with strict policy guidelines [*Centre for Epidemiology and Biostatistics. Security Policies and Procedures, November 2009, University of Leeds*] such that no personally identifiable material will be released in any form and data that produce low cell counts that may result potential identification of individuals will be further aggregated or anonymised.

EXCEPTIONS to this requirement for data to be anonymised are given below:

- i. Researchers who obtain specific ethics permission to do so, may submit patient identifiers to PICANet for linkage on the server. Subject to approval by the PICANet Principle Investigators and independent approval from the PICANet Steering Group Chair, these identifiers will be returned with the associated PICANet data items requested.
- ii. Individual PICU leads may request identifiable data from their own unit for the purposes of local audit and research, or to rectify catastrophic and irreversible destruction of their own local dataset. PICANet recommend that this kind of data request is limited and security procedures (encryption, data transfer methods) should comply with current data protection legislation.
- iii. In some special cases, with appropriate ethics approval, identifiable data may be released to allow data linkage to be carried out either in a third party safe haven or within an organisation that has suitable security and data protection standards to process PICANet data. It is envisaged that such an organisation would be managed by the government or NHS.

In addition, no individual unit or Trust will be identified in a data release to third parties without the express permission of the clinical lead/Trust CEO or their representative.

Data/information request procedures

- All data and information requests must be sent to the PICANet team email using the appropriate form. These are available at www.picanet.org.uk.
- Data requests should specify what variables are required and include date ranges/calculated fields as necessary. Specific requests are much easier to deal with. The purpose of the data request must be clearly stated.
- Information requests also need to be specific and with a clear purpose for the information stated on the form.
- ***All requests for data or information relating to research or clinical trials will be forwarded to the chair of the Paediatric Intensive Care Society Study Group (PICS SG) for consideration and recommendation for approval to allow co-ordination of research in the paediatric intensive care community.***
- Note that information or data requests that require a significant amount of data processing may incur a fee. Charges will be determined according to the level of data processing/analysis required.
- Commercial organisations requesting data or information will be charged for this service. The level of fee will be determined by the complexity of the request in addition to a flat rate charge.
- Data and information requests are logged on receipt and an acknowledgement sent as soon as possible. Further contact will be made by a member of the PICANet team to confirm how long the request will take to complete and to clarify any queries.
- ***It should be noted that not all data/information requests can be turned around quickly – this is dependent on the complexity of the request and the workload of the PICANet team.***
- In some circumstances, requests for information or data may be referred to the Chairs of the Clinical Advisory Group or Steering Group for approval. Their decision is final.
- ***All individuals or organisations must agree to provide information on the use made the information or data requested. PICANet will actively follow up all requests.***
- ***Individuals requesting data or information relating to research or clinical trials may be required to present their results at meetings of the Paediatric Intensive Care Society Study Group.***
- ***All individuals or organisations requesting information or data must confirm their agreement to the terms and conditions detailed in this document.***

Publication using PICANet data: involvement, authorship and acknowledgment

- PICANet has expertise in the manipulation and analysis of the data it collects.
- Where data is requested with a view to publication as research or regional/national reports, it is expected that an appropriate member of the PICANet team should be involved in writing/analysis and interpretation of results. In most circumstances, this would qualify them as an author on any work submitted for publication/circulation.
- Establishing how publications are authored at the outset ensures there are no disputes concerning the ordering of authors and how PICANet is represented. In future, order of authors may be of less relevance if journals ask for a percentage contribution attributable to each author. All authors will be expected to describe their contribution (see 'Criteria for Inclusion' below).
- PICANet has an undertaking with PICS SG to ensure there is a clinical lead on any publication initiated and carried out by the team to ensure we have good clinical support and interpretation.
- ***All research submissions to academic peer-review journals based on or involving PICANet data must be submitted to the Department of Health at least one month prior to publication. This is a contractual obligation and non-negotiable.***

1.2 Criteria for Inclusion

NOTE: All authors must fulfil the criteria for inclusion as an author, detailed in the International Committee of Medical Journal Editors 'Uniform Requirements for Manuscripts Submitted to Biomedical Journals: Writing and Editing for Biomedical Publication' (Updated February 2006) (<http://www.icmje.org/index.html>, accessed July 11, 2006)

1.3 Named Authorship

The notes below summarise the criteria for named authorship.

Any named author on a publication should have contributed to the study in a manner in keeping with the following Vancouver guidelines:

'All persons designated as authors should qualify for authorship, and all those who qualify should be listed. Each author should have participated sufficiently in the work to take public responsibility for appropriate portions of the content. One or more authors should take responsibility for the integrity of the work as a whole, from inception to published article.'

1.4 Authorship Credit

This should be based only on:

1. Substantial contributions to conception and design, or acquisition of data, or analysis and interpretation of data;
2. Drafting the article or revising it critically for important intellectual content; and
3. Final approval of the version to be published.

Conditions 1, 2, and 3 must ALL be met. Acquisition of funding, the collection of data, or general supervision of the research group, by themselves, does not justify authorship.

Authors should provide a description of what each contributed, and editors should publish that information. All others who contributed to the work, who are not authors, should be named in the Acknowledgments, and what they did should also be described.

If authorship is attributed to a team or group, all members of that team or group who are named as authors should fully meet the above criteria for authorship. Team or group members who do not meet these criteria should be listed, with their permission, in the Acknowledgments or in an appendix. The order of authorship on the by-line should be a joint decision of the co-authors. Authors should be prepared to explain the order in which authors are listed.

Decisions Regarding Authorship

Before the outset of a project, it is recommended that the named authorship is agreed and is recorded with study documentation. This can act as a point of reference at the publication stage, but can be changed if deemed appropriate, based on work actually carried out during the study.

Acknowledging the use of PICANet data, funding sources, the contribution of the Steering Group and Clinical Advisory Group members and the contribution of the staff in individual PICUs.

- A huge amount of good will and hard work supports the operation of PICANet and this, along with the funding sources must be acknowledged in any publication.
- Standard acknowledgments are available from PICANet.
- Where space is at a premium, funding must be acknowledged and other contributions (participating Trusts, Clinical and Steering Group members) can be referenced on the PICANet website.

Variation to the terms and conditions set out in this document

The terms and conditions in this document have been agreed by the Principle Investigators of PICANet and the PICANet Steering Group but are subject to change at any time in accordance with changes in UK legislation.