

# Paediatric Intensive Care Audit Network



**Merry Christmas  
from all the PICANet  
team**

## The Past Year.....

Has seen some real development on the web based system. The system will enable us to simplify support and software update procedures allowing rapid development and deployment of new features, and for units to do their own real time comparative analysis and validation of data. We are planning to pilot the system in some units in January with roll out shortly after.

We have also welcomed The Children's University Hospital Dublin and the Harley Street Clinic to PICANet and data collection has begun. We look forward to working with them in the future.

We have had confirmation of 1 further year of funding from HQIP with another year planned subject to satisfactory performance. This allows us to make longer term plans.

We have had an increase in the number of data/information requests this year which is great news. A list of these can be found at [www.picanet.co.uk](http://www.picanet.co.uk). In future, provision of data or information will be conditional on the requester providing feedback to PICANet on how the data/information has been used. This feedback will be published annually. In addition, requesters will be expected to present research/audit findings at the PICS SG meeting. Mark Peters, the current PICS SG chair receives a copy of all requests.

Several publications in 2010 have used PICANet data:

Palliative care discharge from paediatric intensive care units in Great Britain	PALLIATIVE MEDICINE
Effect of specialist retrieval teams on outcomes in children admitted to paediatric intensive care units in England and Wales: a retrospective cohort study	LANCET
Deprivation, ethnicity and prematurity in infant respiratory failure in PICU in UK	ACTA PAEDIATRICA
Paediatric intensive care admissions for acute diabetes complications	DIABETIC MEDICINE
Place of death and palliative care following discharge from paediatric intensive care units.	ARCHIVES OF DISEASE IN CHILDHOOD
Severe Acute Disseminated Encephalomyelitis: A Paediatric Intensive Care population based study. Multiple Sclerosis	MULTIPLE SCLEROSIS
Severe Head Injury in Children: intensive care unit activity and mortality in England and Wales.	BRITISH JOURNAL OF NEUROSURGERY

## The Year Ahead.....

Rolling out of the secure web based system will be a major task for year ahead and other projects include:

- *Developing an electronic data collection system to facilitate the collection of data for the annual staffing study.*
- *Continuing the work of the PICU Families Sub-group - for involving parents in determining the quality standards of care in PICUs.*
- *Developing and implementing a local audit data collection tool to allow units to create simple to use data collection tools linked to the PICANet dataset that allow them to run short-term audits on specific topics (e.g. accidental extubation; line infections) without the need to re-record details already entered for PICANet.*
- *Recalibration of the mortality risk-adjustment tool - the risk adjustment tool is essential for presenting all PICU data and current PICANet data shows clearly that it requires recalibration to accurately identify unit performance.*
- *Using the PCCMDS activity data to produce a better activity profile for individual units.*

## PICANet staff changes

Sarah Skinner (PICANet Administrator) has returned from maternity leave and can be contacted with any enquiries on [picanet@leeds.ac.uk](mailto:picanet@leeds.ac.uk) or 0113 3438125. She will normally work Wednesday to Friday.

## PICANet Annual Meeting 2010

The 2010 Annual Meeting took place on the 14<sup>th</sup> October at the West Midlands Perinatal Institute in Birmingham. Thank you to everyone that attended on the day. A big thank you also to anyone that submitted feedback forms; your comments are greatly appreciated and will be helpful in the planning of future events.

As soon as we have details of the 2011 event, you will all be informed.

## PICU families sub group

The subgroup comprising a group of nurses, clinicians, clinical psychologists, parents and PICANet team members are working together to develop research projects on aspects of patient and public involvement within the paediatric intensive care service.

The group are currently designing two questionnaires to facilitate the monitoring of the appropriate Standards of the Paediatric Intensive Care Society. From January 2011 a short questionnaire looking at the information and facilities available to the PICU family, when their child is admitted to paediatric intensive care; will be completed with clinical staff during the course of the annual PICANet validation visit.

A second questionnaire is being developed for completion by parents and guardians, enquiring about the information and facilities available to the family.

In 2011 we will be inviting units to participate in the second phase of the work, recruiting parents to complete this questionnaire for a defined period of time. This will enable the answers from the families to be compared with the information collected during the validation visit, in relation to the appropriate PICS Standards.

If your unit would like to participate in the PICANet Families Subgroup or you require further information please contact [Caroline Lamming](#).

## PICANet Staffing Study 2010

Thank you to all the units who promptly completed and returned the data collection forms for this annual study of occupancy, nursing and medical staffing provision in the week commencing November 8<sup>th</sup> 2010.

Units with outstanding data have been contacted individually. PICANet hope to attain a 100% return of the 2010 medical and staffing data which will be included in the next annual report. If you have not already returned your data please do so immediately, this will enable us to include your PICU in the analysis and report.

## The PICANet ARF audit

This audit is collecting information on children, aged less than one year, who are transferred from their admitting hospital to a PICU, with diagnoses associated with acute respiratory failure.

Data collection began on November 1<sup>st</sup> 2010 and will complete with those children admitted on January 31<sup>st</sup> 2011.

This will enable us to identify if there has been a change in the proportion of children who have had access to non-invasive ventilation (NIV) prior to their PICU admission. Completed data collection forms should be returned to the Leicester PICANet office at the end of each calendar month.

PICANet is funded by the National Clinical Audit and Patient Outcomes Programme administered by the Healthcare Quality Improvement Partnership ([hqip.org.uk](#)), Health Commission Wales Specialised Services, NHS Lothian / National Service Division NHS Scotland, Royal Belfast Hospital for Sick Children, Our Lady's Hospital for Sick Children, Dublin, Children's University Hospital, Temple Street, Dublin, The Harley Street Clinic, London..

## PICANet Annual Report 2011

The deadline for submission of all 2010 data is 3<sup>rd</sup> March 2010. Let [Sarah Skinner](#) know if you have any queries, comments or concerns that you may not be able to achieve this.

## PCCMDS update

We will be writing to unit leads in the New Year requesting that they allow us to report on their PCCMDS data in the next annual report, identifying individual units. Please note that if you submit PCCMDS data to PICANet, we can process this for you and send you a breakdown by patient by day of the HRG allocated and the variables used. This will be in a spreadsheet format: contact Sarah Skinner or Lee Norman for more details.

## PICANet 'down under'

Data provided by PICANet has been used in 6 successful abstract submissions to the 6th World Congress on Pediatric Critical Care, in Sydney, 13 - 17 March 2011 (<http://www.pcc2011.com/>).

Abstracts and first authors are:

Use Of A National Picu Database To Inform The Design Of A Post-Cardiac Arrest Intervention Study - The Cold-Pack Study (Post Arrest Cooling In Kids).	B. Scholefield
Cardiac Arrest Requiring Intensive Care Admission: A United Kingdom Epidemiology Study.	B. Scholefield
Implications Of Data Quality And Interface Problems Between Audit Management Systems On Mortality Outcome Of PICU	A.Deep
Tracheostomy On The Paediatric Intensive Care Unit.	D. Wood
Increased mortality for long-stay patients on PICU: PIM2 is not predictive	D. Wood
Paediatric Index of Mortality (PIM) score performance is improved by inclusion of admission blood lactate concentration.	P McShane





# PICANet Contact Details



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