

# Annual Report of the Paediatric Intensive Care Audit Network

January 2009 — December 2011
Appendices



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**Paediatric Intensive Care Audit Network** 

University of Leeds University of Leicester

## **Appendices Contents**

- A Participating Units and Hospital Characteristics
- B Clinical Advisory Group membership
- C Steering Group Membership
- D Families Group Membership
- E Data Collection Form
- F Parent Information Leaflet
- G Data Validation Form
- H Data Validation Report
- I Monthly Admissions Report
- J Data Status Report
- K Publications, Presentations and Abstracts
- L Staffing Study Data Collection Forms
- M Data Requests since last annual report

#### 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	4 ventilated beds	4	General			
Birmingham Children's Hospital NHS Trust	Birmingham Children's Hospital	PICU	20	0	General & Cardiac			
Brighton & Sussex University Hospitals NHS Trust	The Royal Alexandra Children's Hospital	L8 PICU	1	General				
Cambridge University Hospitals NHS Foundation Trust	Addenbrooke's Hospital	PICU	8 <sup>1</sup>	3	General			
Cardiff & Vale University Health Board	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	Great Ormond Street Hospital for Children	ссси	16	0	Cardiac			
Trust	Great Ormond Street Hospital for Children	PICU & NICU	21	0	General & Neonatal Unit			
Guy's & St. Thomas' NHS Foundation Trust	Evelina Children's Hospital	PICU	15 <sup>2</sup>	0	General & Cardiac			
USE (Hoolth Conject Evacutive)	Children's University Hospital, Temple Street, Dublin	PICU	9	0	General			
HSE (Health Services Executive)	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 <sup>3</sup>	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	17	0	General & Cardiac			
	Newcastle General Hospital	PICU	11	0	General			
Newcastle Upon Tyne Hospitals NHS Foundation Trust	Royal Victoria Infirmary	Ward 12 PICU	11	0	Surgical ICU			
	Freeman Hospital	PICU Freeman	8	3	Cardiothoracic surgery & ECMO Orthopaedics and ENT			
NHS Lothian – University Hospitals Division	Royal Hospital for Sick Children, Edinburgh	PICU	8	6 <sup>4</sup>	General (plus neurosurgical and spinal)			
NHS Greater Glasgow and Clyde – Women and Children's Division	Royal Hospital for Sick Children, Yorkhill	PICU	16 <sup>5</sup>	10	General, Cardiac & ECMO			
Oxford Radcliffe Hospitals NHS Trust	The John Radcliffe Hospital	PICU	8	6	General & Cardiac			
Nottingham University Hospitals NHS Trust	Queen's Medical Centre	PICU	6	4	General (plus regional neurosurgical, spinal, supraregional renal service and cleft lip &			

NHS Trust	Participating Hospital	Unit / Ward	Number of ITU beds	Number of HDU beds	Type of unit
					palate services)
Royal Brompton & Harefield NHS Foundation Trust	Royal Brompton Hospital	PICU	14 <sup>6</sup>	4	Cardiac & Respiratory
Royal Liverpool Children's NHS Trust	Royal Liverpool Children's Hospital	PICU	22	0	General & Cardiac
Sheffield Children's NHS Foundation Trust	Sheffield Children's Hospital	PCCU	9	8	General, major trauma, neurosurgery, ENT, oncology, metabolic, paediatric surgery, spinal
	Sheffield Children's Hospital	Neonatal Surgical Unit	2	0	Neonatal Surgical Unit
Southampton University Hospitals NHS Trust	Southampton General Hospital	PICU	12 <sup>7</sup>	8 <sup>7a</sup>	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	10	0	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	19	2	General & Surgery
Belfast Health and Social Care Trust	Royal Belfast Hospital for Sick Children	PICU	8 <sup>10</sup>	0	General
University Hospitals Bristol NHS Foundation Trust	Bristol Royal Hospital for Children	PICU	15 <sup>11</sup>	0	General & Cardiac
	Leicester Royal Infirmary	CICU	6 <sup>13</sup>	2	General
University Hospitals of Leicester NHS Trust	Glenfield Hospital	PICU	7 <sup>12</sup>	0	Cardiac & ECMO
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

- 1 Increase from 6 ITU and 2 HDU beds effective from 1<sup>st</sup> April 2010.
- 2 Physically 20 beds but only 15 are staffed.
- With capacity to ventilate two patients on the Adult ICU.
- 4 At times funded for 10 ITU and 6 HDU beds.
- Staffing covers only 14 ICU beds and 6 HDU beds, however sometimes peak to 16 ICU and 10 HDU.
- 6 ITU/ HDU beds are used flexibly.
- 7 From 1<sup>st</sup> June 2012 unit has 12 beds. Previously 13.
- 7a HDU beds are in 2 separate HDU units (4 Cardiac and 4 General)

- 8 Total capacity 10 beds used flexibly.
- 9 Now closed.
- 10 The unit is anaesthetist-led and only admits patients under 13 years unless remaining under the care of an existing Paedatrician. Discussions currently about increasing beds.
- 11 15 staffed ITU beds in 18 space unit.
- 12 Used flexibly
- Reduced by 1 ITU bed in June, July and August

### **APPENDIX B CLINICAL ADVISORY GROUP MEMBERSHIP** (Current members are highlighted)

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 Paul Baines	Consultant in Paediatric Intensive Care	Royal Liverpool Children's NHS Trust Alder Hey Hospital	2002 - 2012					
Ms Corenna Bowers	Sister	Cardiff & Vale NHS Trust University Hospital of Wales	2002 - 2004					
Dr Anthony Chisakuta	Lead Clinician	The Royal Group of Hospitals & Dental Hospital HSS Trust Royal Belfast Hospital for Sick Children	2008 - present					
Kathryn Claydon - Smith	Research Practitioner	Central Manchester & Manchester Children's University Hospitals NHS Trust Royal Manchester Children's Hospital	2009 - present					
David Cope	Audit Nurse	Sheffield Children's Hospital	2012 - present					
Dr Gillian Colville	Consultant Clinical Psychologist	St George's Healthcare NHS Trust St Georges Hospital, London	2009 - 2012					
Dr Peter Davis	Consultant in Paediatric Intensive Care	United Bristol Healthcare NHS Trust Bristol Royal Hospital for Children	2006 – present (From 2012 Chair)					
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					
Ms Georgina Gymer	Research Nurse	Nottingham University Hospitals NHS Trust Queen's Medical Centre						
Dr James Fraser	Consultant in Paediatric Intensive Care	United Bristol Healthcare NHS Trust Bristol Royal Hospital for Children	2002 – 2006					
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 Christine Mackerness	Sister	Newcastle Upon Tyne Hospitals NHS Foundation Trust Newcastle General Hospital	2002 - 2012					
Maria MacDonald	Research and Audit Nurse Coordinator	Central Manchester & Manchester Children's University Hospitals NHS Trust Royal Manchester Children's Hospital	2009 - 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	Sister	The Royal Group of Hospitals and Dental Hospital HHS Trust Royal Belfast Hospital for Sick Children	2008 - present
Ms Victoria McLaughlin	Audit Nurse	Central Manchester & Manchester Children's University Hospitals NHS Trust Royal Manchester Children's Hospital	2002 - 2007
Cathy McMahon	tbc	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
Brendan O'Hare	Consultant Paediatric Anaesthetist & Intensivist Director of Research	Our Lady's Children's Hospital, Crumlin, Dublin 12	2010 - 2011
Ms Geralyn Oldham	Information Support Manager	Great Ormond Street Hospital for Children NHS Trust Great Ormond Street Hospital for Sick Children	2002 - present
Dr John Pappachan (shared with Dr Peter Wilson)	tbc	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 Gale Pearson	Consultant in Paediatric Intensive Care	Birmingham Children's Hospital NHS Trust Birmingham Children's Hospital	2002 – 2011
Dr Adrian Plunkett	Consultant Paediatric Intensivist	Birmingham Children's Hospital NHS Trust Birmingham Children's Hospital	2012 - present
Dr Damian Pryor	Consultant in Paediatric Intensive Care	Cardiff & Vale NHS Trust University Hospital of Wales	2002 - 2004
Ms Chloe Rishton	CHiP Nurse	Central Manchester & Manchester Children's University Hospitals NHS Trust Royal Manchester Children's Hospital	2008 - 2011
Kay Rushforth	Senior Sister	Leeds Teaching Hospitals NHS Trust Leeds General Infirmary	2012 - present
Shane Tibby (Sharing 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
Ms Debbie White	Sister	Cambridge University Hospitals NHS Foundation Trust Addenbrooke's Hospital	2002 - 2012
Dr Peter Wilson (shared with John Pappachan)	PICU Consultant	Southampton General Hospital Southampton Universities Hospital NHS trust	2011 - present

### APPENDIX C STEERING GROUP MEMBERSHIP (current members are highlighted in grey)

Name	Position	Organisation	Representation	Period Served
Mrs Pamela Barnes	Chair of Action for Sick Children	Action for Sick Children	Lay Member	2002 - present
Professor Nick Black	Head of Health Services Research Unit	London School of Hygiene and Tropical Medicine	Health Services Research / Public Health	2002 - 2007
Mr William Booth	Clinical Nurse Manager	University Hospitals Bristol NHS Foundation Trust Bristol Royal Hospital for Children PICU	Royal College of Nursing	2002 - present
Ms Bev Botting	Child Health and Pregnancy Statistics	Office for National Statistics	Office for National Statistics (data protection)	2002 - 2003
Dr Jean Chapple	Consultant in Perinatal Epidemiology / Public Health	Westminster Primary Care Trust	PICNET founder	2002 - 2006
Dr Bill Chaudhry	Consultant Paediatrician	Newcastle Upon Tyne Hospitals NHS Trust Newcastle General Hospital PICU	Clinical IT	2002 - 2003
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
Mr Noel Durkin	Department of Health	Child Health Services Directorate	Department of Health	2002 – 2007
Dr Ian Jenkins	Consultant in Paediatric Intensive Care	University Hospitals Bristol NHS Foundation Trust Bristol Royal Hospital for Children PICU	Chair of Paediatric Intensive Care Society	2006 - 2010
Dr Steve Kerr	Consultant in Paediatric Intensive Care	Royal Liverpool Children's NHS Trust Alder Hey Hospital PICU	Chair of Paediatric Intensive Care Society	2003 - 2007
Ms Helen Laing	Contracts and Commissioning Manager	Healthcare Quality and Improvement Partnership (HQIP)		2004 - present
Mr Ian Langfield	Audit Co-ordinator	National Assembly of Wales	National Assembly of Wales	2002 - 2003
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 Roddy McFaul	Medical Advisor	Child Health Services Directorate	Department of Health	2002 - 2003

Name	Position	Organisation	Representation	Period Served
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	Lay member	2009 - present
Professor Jon Nicholl	Director of Medical Care Research Unit	School of Health and Related Research University of Sheffield	Health Services Research / Statistics	2002 - 2006
Dr Gale Pearson	Consultant in Paediatric Intensive Care	Birmingham Children's Hospital NHS Trust Birmingham Children's Hospital PICU	Chair of PICANet CAG	2002 - present
Dr Mark Peters	Clinical Unit Chair	Great Ormond Street Hospital for Children NHS Trust Great Ormond Street Hospital, London	Chair of Paediatric Intensive Care Society Study Group	2008 - present
Ms Tanya Ralph	Nursing Research Lead	Sheffield Children's NHS Foundation Trust Sheffield Children's Hospital PICU	PICS	2002 - 2006
Dr Kathy Rowan / Lucy Lloyd Scott	Director / Casemix Programme Manager	ICNARC	Intensive Care National Audit & Research Centre	2002 - present
Mr Stuart Rowe	PCT Commissioner	Commissioning Department Hammersmith & Fulham PCT	PCT Commissioner (Pan-Thames)	2003 - present
Ms Dominique Sammut	Audit Co-ordinator	Health Commission Wales	Health Commission Wales	2003 - present
Dr Jennifer Smith	Medical Advisor	Office Project Team	Commission for Health Improvement	2002 - 2004
Dr Charles Stack	Consultant in Paediatric Intensive Care	Sheffield Children's NHS Foundation Trust Sheffield Children's Hospital PICU	Paediatric Intensive Care Society	2002 - 2006
Professor Stuart Tanner	Medical Advisor in Paediatrics and Child Health	Child Health Services Directorate Department of Health	Department of Health	2003 - 2006
Dr Robert Tasker	Lecturer in Paediatrics	Department of Paediatrics University of Cambridge Clinical School	Paediatric Intensive Care Society Study Group	2004 - 2008
Dr Edward Wozniak	Medical Advisor in Paediatrics and Child Health	Child Health Services Directorate Department of Health	Department of Health	2006 - present

#### APPENDIX D PIC FAMILIES GROUP MEMBERSHIP

Name	Position	Organisation	Period Served
Dr John Alexander	Consultant in Paediatric Intensive care	University Hospital of North Staffordshire PICU	2010 to present
Dr Tariq Ali	Consultant in Paediatric Intensive care and Anaesthesia	John Radcliffe Hospital, Oxford	2010 –2011
Fiona Bickell	Retrieval Nurse Practitioner	South Thames Retrieval Service	2010 - present
Sally Bolsover	Sister	Sheffield Childrens Hospital	2011 to present
Sarah Bundy	Family Liaison Sister	Birmingham Children's Hospital	2010 to present
Dr Gillian Colville	Clinical Psychologist	St Georges Hospital	2009 to present
Helene Craddock	Senior Staff Nurse	Bristol Royal Hospital for Children	2011 to present
Professor Elizabeth Draper	Principle Investigator	PICANet	2009 to present
Debra Ehala	Sister	Great North Childrens Hospital	2009 to present
Phillip Hudnott	Audit Nurse	Manchester Childrens Hospital	2011 to present
Dr Hilary Klonin	Consultant in Paediatric Intensive care	Hull Royal Infirmary	2009 to present
Caroline Lamming	Research Nurse	PICANet	2009 to present
Anna Leather	Critical Care Audit Nurse	Sheffield Children's Hospital	2011 to present
Shelley Marsh	Lay Representative	N/A	2011 to present
Tina McClelland	Audit Sister	Alderhey Hospital	2009 to present
Anna Leather	Critical Care Audit Nurse	Sheffield Children's Hospital	2011 to present
Petra Schroff	Family Liaison Nurse	Great Ormond Street Hospital for Children	2011 to present
Adam Tansey	Lay Representative	N/A	2011 to present
Dr Ulf Thielen	Consultant Paediatric Intensivist	Edinburgh Royal hospital for Sick Children	2009-2011



# PICANet // Paediatric Intensive Care Audit Network // Data Collection Form

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Patient details (or hospital label)	
Family name	NHS number (or CHI number)  Tick if patient is not
First name	Case note number
Postcode	Date of birth (dd/mm/yyyy)  Indicate if date of birth is  Estimated Anonymised Unknown  Sex  Male Female Ambiguous Unknown
Ethnic category (refer to categories on back page)	Gestational age at delivery (if patient is under 2 years old) weeks
GP practice code	Birth order Multiplicity  of
Admission details	
Date and time of admission to unit (dd/mm/yyyy)	Source of admission Same hospital Clinic Other hospital Home
Admission number	Care area admitted from (includes transfers in)  ☐ X-ray / endoscopy / CT scanner ☐ ICU / PICU / NICU ☐ Recovery only ☐ Ward
Type of admission to unit  Planned – following surgery  Unplanned – following surgery  Planned – other  Unplanned – other	HDU (step up/step down unit) Other intermediate care area  Retrieval / transfer No
Previous ICU admission (during current hospital stay)  □ ICU □ PICU □ NICU	Retrieved / transferred by  Own team Specialist non-PIC team Other specialist PIC team Non-specialist team Unknown
☐ None ☐ Unknown	Transport team
Diagnoses and procedures  Primary diagnosis for this admission:	
Other reasons for this admission:	
Operations and procedures performed during this admission	n:
Co-morbidity:	

Daily inter	rventions													
	rd all interventions given on each day of admission usir	ng a cross ⊠. Admis	ssior	n da	te:									
If no interver	ntions given, choose "No defined critical care activity".	Dav	0	1	2 3	4	5	6	7	8	9 1	10 1	1 1	2 13
Basic	No defined critical care activity	Code 99	$\check{\Box}$	İ	T	T	Ť	Ť	Ė	Ť	Ť	T	T	T
	Continuous ECG monitoring	50	П											
	Continuous pulse oximetry	73												
Airway	Invasive ventilation via endotracheal tube	51			T		T			П	T	Т		П
and	Invasive ventilation via tracheostomy tube	52	1			İ					1		İ	
ventilatory	Non-invasive ventilatory support	53												
	Advanced ventilatory support (jet ventilation)	56												
	Advanced ventilatory support (oscillatory ventilation)	56	Щ			_					4		_	
	Nasopharyngeal airway	55	Н			╁	-				4	-	╬	
	Tracheostomy cared for by nursing staff Supplemental oxygen therapy (irrespective of ventilatory st		$\vdash$	-	-	-	-	$\vdash$			-	+	-	+
	Upper airway obstruction requiring nebulised adrenaline (e		-	-		$\dagger$	t	H				+	+	+
	Apnoea requiring intervention (>3 in 24 hours or need for b		Н			┢					T	1	T	T
	Acute severe asthma requiring IV bronchodilator therapy o	r continuous nebuliser 59												
Cardio-	Arterial line monitoring	60	П			T	T						T	П
vascular	External pacing	61	╁			╁	1				-	t	$\dagger$	+
	Central venous pressure monitoring	62	+			╁	$\dagger$						$\dagger$	
	Continuous infusion of inotrope, vasodilator or prostagland	in 06	т			╁	1							
	Bolus IV fluids (>80 ml/kg/day) in addition to maintenance	V fluids 63	П			T	İ				T		╽	П
	Cardio-pulmonary resuscitation	64										Ī		
	Extracorporeal membrane oxygenation (ECMO)	65												
	Ventricular assist device (VAD)	65												
	Aortic balloon pump	65												
Renal	Peritoneal dialysis	05												
	Haemofiltration	16												
	Haemodialysis	66												
	Plasma filtration	67	Щ.			↓	<u> </u>							
	Plasma exchange	67												
Neuro-	ICP-intracranial pressure monitoring	68												
logical	Intraventricular catheter or external ventricular drain	69												
Metabolic	Diabetic ketoacidosis (DKA) requiring continuous infusion of	of insulin 70												
Other	Exchange transfusion	04									1	T		
Out of	Intravenous thrombolysis	71	+			┢	t				1	T	╁	$\dagger$
	Extracorporeal liver support using molecular absorbent rec	irculating system (MARS) 72	T									T		
	Patient nursed in single occupancy cubicle (state reason for	or isolation below†) †74												
High cost	Medical gases Band 1 - nitric oxide	X841	П			T	T				Т		T	П
drugs	Surfactant	X842	1									T		
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	raised in single occupancy cubicle, state reason for isc	ланоп												
PIM2														
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face contac	ct with ICU doctor until one hour after admission.	☐ Yes ☐ No												
	the first recorded measurement during this time	If yes, tick all that apply												
period.		Cardiac arrest before IC		dmis	sion									
Elective ac	dmission	Cardiac arrest OUT of hospital												
Tick if th	is is an elective admission	<u> </u>												
Main reaso	on for PICU admission	Cardiomyopathy or myocarditis												
Asthma	-	Severe combined immune deficiency												
1=	Nitio	Hypoplastic left heart syndrome												
Bronchio	лио	Leukaemia or lymphoma after first induction												
Croup		Liver failure main reason for ICU admission												
☐ Obstruct	ive sleep apnoea													
I <u> </u>	y from surgery	Admitted following cardiac bypass												
		Spontaneous cerebral haemorrhage												
Diabetic	ketoacidosis	☐ Neurodegenerative disorder												
Other (ne	one of the above)	Human Immunodeficien	cy V	ïrus	(HI\	/)								
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Clinical trial		Custom fields	
Is the patient on a clinical t	trial?	Field name	Field value
Yes (specify name of trial)	☐ No		-
Crowth magaziromento /	if required by your unit		
Growth measurements (i	required by your urill)		
Height			
cm			
Weight			
	9		
Abdominal circumference			
cm			
Discharge information			
Status at discharge from your Alive Dead	our unit		
Discharged for palliative ca   ☐ Yes ☐ No	are		
Date and time of discharge	(dd/mm/yyyy hh:mm)		
Date and time of death (dd/	/mm/yyyy hh:mm)	Comments	
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Destination following disch	parge from your unit		
_	same hospital ] [   ICU		
Hospice C	Other hospital PICU		
	☐ NICU		
	□ HDU		
	SCBU		
	☐ Ward		
	L ☐ Other		
Follow-up 30 days post-o	discharge from your unit	Form completed by	
Status			
Alive Dead	Unknown	Ethnic categories	
Date of death (dd/mm/yyyy)			
/     / 2 0		White – British, Irish, Any other Whixed – White and Black Caribbea	· ·
Lasstian		White and Asian, Any other mixe	ed background*
Location	tama haanital ] [	Asian or Asian British – Indian, P Any other Asian background*	'akistani, Bangladeshi,
I — —	Same hospital ICU Other hospital PICU	Black or Black British – Caribbea	an, African,
	☐ NICU	Any other Black background*	
	□ HDU	Chinese  Any other ethnic group*	
	SCBU	Not stated – if the patient had bee	n asked and had declined
	☐ Ward	Unknown – if the patient had not b	peen asked
	☐ Other	* Specify ethnicity alongside category	ory
		L	
Contact us	Loo Norman	Carolina I amarina	Dhil Machana
PICANet Office General enquiries	<b>Lee Norman</b> Database manager	Caroline Lamming Research nurse	Phil McShane Statistician
(0113) 343 8125	(0113) 343 8125	(0116) 252 5414	(0113) 343 8304
picanet@leeds.ac.uk	l.j.norman@leeds.ac.uk	crl4@leicester.ac.uk	p.mcshane@leeds.ac.uk

# APPENDIX F INFORMATION LEAFLET

#### What does PICANet do?

PICANet collects information on all children who are admitted to a paediatric (children's) intensive care unit. You don't need to do anything for your child to be included.

#### Why is PICANet important?

The information that we collect for PICANet is helping to find out the best ways to treat and care for children who are ill, so that intensive care services can be better planned for and provided.

#### **How is PICANet funded?**

Funding is provided by the Healthcare Quality Improvement Partnership, Health Commission Wales Specialised Services, NHS Lothian / National Service Division NHS Scotland and The Royal Belfast Hospital for Sick Children.

#### What information is needed?

PICANet collects exactly the same information on all children cared for in paediatric intensive care units.

Personal details, like name and date of birth, help us to follow your child's progress, if they are moved to another paediatric intensive care unit. Information about your child's care, treatment and condition is also collected.

We can use your postcode to help plan future paediatric intensive care services in your area.

#### How is information collected?

A member of staff records details about your child's condition or illness onto a form from information in their medical notes. This information is then put onto a computer, sent to the University of Leeds and kept there on a computer.

#### Will the information be safe?

We send all information in a very safe way and keep it stored confidentially on a main computer, which is kept in a safe room. No-one can see the information, unless it is their job to do so.

There is no way at all that your child can be identified in any of our reports.

# What will the information be used for?

We use the information to help us write

reports and to decide what further information on children's intensive care is needed to help hospitals plan for the future.

Because we collect a lot of information, it means that we can look at what is happening all over the country and not just in this hospital.

We have linked up with the Office of National Statistics, so that we can see how your child's health is, after they have left the intensive care unit.

#### What have we found out so far?

During the past few years, we have shown that about 15,000 children are admitted to paediatric intensive care units in England, Wales and Scotland. Almost half of these children are less than one year old. This type of information is useful, because it helps the hospitals and the people who plan health services to know what to expect and to be better prepared.

#### Does my child have to be included?

If you do not want information on your child included in PICANet, please tell the nurse or doctor caring for your child. Your decision will not alter the care your child receives in this, or any other hospital.

# Where can I get more information?

If you have any questions about PICANet you can:

- ask your child's nurse or doctor for more information
- visit the PICANet website (see below)
- email PICANet (see below)
- contact a member of the PICANet team on one of the telephone numbers below

#### **PICANet contact information:**

Website: <a href="www.picanet.org.uk">www.picanet.org.uk</a>
Email: <a href="mailto:picanet@leeds.ac.uk">picanet@leeds.ac.uk</a>

# Roger Parslow, Sarah Skinner, Phil McShane & Lee Norman

**PICANet** 

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10113 343 8125

#### **Contact information (cont)**

# Elizabeth Draper, Caroline Lamming & Rachel Hobson

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msn@leicester.ac.uk

10 0116 252 3200

11 0 252 3200

12 0 0116 252 5414

13 0 0116 252 5450





# Paediatric Intensive Care Audit Network

Information leaflet for parents, families and guardians of children admitted to paediatric intensive care



Drawn by Zoe aged 8



#### PICANet data validation audit



	PICU name	Visited by	Date of visit
			//_20
	Variable	Visit value	Discrepancy
Admission	Case note number		
γ	Date of admission	/ 20	
	Time of admission	± 30 minutes is acceptable	•
	Previous ICU admission	☐ ICU ☐ PICU ☐ NICU ☐ None ☐ Not known	
****	Retrieval / transfer	Yes No	
	Retrieved / transferred by	<ul> <li>Own team</li> <li>Other specialist team (PICU)</li> <li>Other specialist team (non-PICU)</li> <li>Non-specialist team</li> <li>Not known</li> </ul>	
	Care area admitted from	<ul> <li>X-ray, endoscopy, CT scanner or similar</li> <li>Recovery only</li> <li>HDU (step up / step down unit)</li> <li>Other intermediate care area (not ICU / PICU / NICU)</li> <li>ICU / PICU / NICU</li> <li>Ward</li> <li>Theatre and recovery</li> <li>A &amp; E</li> </ul>	
Diagnoses	Primary diagnosis for this admission		
PIWIPIWIZ - Keason for admission	Main reason for admission	None of those below  Asthma Bronchiolitis Croup Obstructive sleep apnoea Recovery from surgery Diabetic ketoacidosis	

	Variable	Visit value	Discrepancy
nysiology	Blood gas in first hour?	☐ Yes ☐ No	
PIM/PIM2 - Physiology	Arterial PaO <sub>2</sub>	kPa OR mmHg	
PIM/	FiO <sub>2</sub>		
	Intubation	☐ Yes☐ No	
	Headbox	☐ Yes☐ No	
	Systolic blood pressure	mmHg ± 5 mmHg is acceptable	
	Base excess (arterial/capillary)	±	
	Pupil reaction	<ul><li>□ Both fixed and dilated</li><li>□ Other reaction</li><li>□ Not known</li></ul>	
	Mechanical ventilation	☐ Yes ☐ No	
	СРАР	☐ Yes ☐ No	
Interventions	Invasive ventilation	☐ Yes ☐ No	
Inte	Invasive ventilation days	Start date	
	Non-invasive ventilation	☐ Yes ☐ No	
	Non-invasive ventilation days	Start date Stop date  / 2 0 / 2 0 / 2 0	
Discharge	Date of discharge	/ 20	
	Time of discharge	± 30 minutes is acceptable	

#### APPENDIX H DATA VALIDATION REPORT

(This report was used throughout the reporting period of this publication but has been superseded by the web based system self validating reports)

#### The Royal Hospital

#### Key to clinical code errors

Value(s):

READ code followed by READ code description followed by the text recorded in the unit notes e.g. XSDOK- Bronchiolitis [respiratory distress]

#### Example errors:

- A) (no code) (no description) [(no notes)], this means nothing has been supplied.
- B) X44vY [ASD], this means an invalid READ code and no READ code description have been supplied.
- C) 00000 [abdominal tumour resection], this means no READ code and no READ code description have been supplied.

Admission number 200421	Casenote number 233X	Admitted on 12/02/2004	PICANet ID 450
Reason	Variable(s)	Value(s)	Comment
Missing primary reason	Primary reason for admission	(No code) - (No desription) [(No notes)]	Must have a primary reason for admission recorded
Admission number 200462	Casenote number 433RX	Admitted on 15/04/2004	PICANet ID 552
Reason	Variable(s)	Value(s)	Comment
Missing value	Intubation		
Missing value	Number of days intubated		
Admission number 200479	Casenote number 756X	Admitted on 01/05/2004	PICANet ID 660
Reason	Variable(s)	Value(s)	Comment
Incorrect concept domain	Primary reason for admission	X20UN - Nissen fundoplication [Nissen fundoplication]	Primary reason must be a disorder
Missing value	Follow-up status		
Admission number 2004111	Casenote number 999X	Admitted on 16/12/2004	PICANet ID 1273
Reason	Variable(s)	Value(s)	Comment
Incongruent value	Hospital location	Normal residence / Ward	Discharge destination not hospital but hospital location recorded
Logic error	Admission date / Discharge date	12/03/2003 / 10/03/2003	Please check dates; cannot be discharged before admitted
Missing value	Unit discharge status	Not known	Status at discharge from your unit expected (Alive or Dead)

#### APPENDIX I MONTHLY ADMISSIONS

SITE ID																																								
	2009												2009 Total	2010												2010 Total	2011												2011 Total	TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12		1	2	3	4	5	6	7	8	9	10	11	12		1	2	3	4	5	6	7	8	9	10	11	12		
PIC001		107	102			110	121	105		115		139		114	92	115	105	98	102	115		112	96	103	121	1279		96	104			105	115		104	99			1275	3893
PIC002	53	38	53	39	41	39	27	28	40	37	34	54	483	48	26	43	33	40	33	42	31	36	54	49	50	485	19	13	14	15	12	-/	14	8	14	10	3	20	149	1117
PIC003 PIC004	52 47	51 39	44 56	48 37	58 49	52 39	56 43	47 35	39 48	58 45	61 46	67 49	633 533	57 46	62 48	58 53	62 40	53 47	57 54	54 52	45 41	55 53	57 56	46 48	68 46	674	74 45	58 56	52 61	58 57	56 45	54 40	51 43	51 47	52 57	63 56	58 61	59 47	686 615	1993 1732
PIC004 PIC005	29	31	34	25	16	23	43 27	29	24	23	36	49	344	29	17	29	24	21	22	20	12	18	9	26	36	584 263	24	21	27	19	25	23	19	15	18	17	28	29	265	872
PIC005	75	55	77	69	74	72	62	59	64	63	82	73	825	64	63	60	70	74	63	61	47	60	67	74	69	772		70	85	69	71	63	54	49	65	71	67	88	834	2431
PIC008	30	27	33	32	30	40	35	36	41	27	38	33	402	32	38	41	30	47	37	33	26	29	31	25	25	394	32	28	32	25	15	21	24	26	28	20	36	21	308	1104
PIC009	35	29	37	34	31	30	33	33	40	33	40	35	410	28	23	23	22	31	31	20	23	41	31	31	35	339		26	29	21	28	26	36	32	48	33	43	48	389	1138
PIC010	93	71	95	91	83	103	79	77	104	99		123	1123	98	82	100	100	88	95	100	84	93	106	108	116	1170		93	99	85	86	94	93	79	83	96			1103	3396
PIC011	77	66	84	99	82	76	63	77	75	84	96	91	970	76	58	73	74	70	86	94	82	75	95	85	84	952		78	69	62	96	96	77	78	73	80	100	99	996	2918
PIC012	96	87	102	94	92	104	81	90	92	107		121	1167	106	92	93	97	100	93	96	100	86	82	122	133	1200		105	103		100	98	102	78	93	98		125	1243	3610
PIC013	52	44	51	44	55	48	50	48	51	42	47	49	581	43	40	69	51	55	46	51	45	56	56	45	50	607	51	48	55	32	54	38	48	41	56	48	50	69	590	1778
PIC014	48	53	59	50	55	60	53	58	63	62	66	69	696	58	51	70	74	76	54	56	76	66	61	55	50	747	54	51	49	41	46	62	49	69	68	63	65	59	676	2119
PIC015	36	35	48	43	24	44	42	35	51	53	53	46	510	46	45	54	46	31	26	39	32	27	50	47	50	493	52	42	50	39	48	40	36	30	45	46	32	41	501	1504
PIC016	33	30	30	19	27	24	23	20	24	29	38	39	336	39	31	32	17	20	24	26	21	24	31	32	37	334	24	20	31	30	21	20	24	16	29	30	22	26	293	963
PIC017	7	5	9	11	7	10	6	5	8	14	19	17	118	11	17	16	10	10	6	7	1					78														196
PIC018	60	53	64	65	64	51	73	45	64	61	67	65	732	61	50	57	56	55	60	60	45	63	53	82	80	722	75	76	77	54	49	62	52	39	54	53	74	72	737	2191
PIC019	16	10	22	11	7	12	9	7	19	19	23	17	172	21	12	19	12	18	18	9	12	15	21	25	29	211	29	17	30	26	19	22	22	14	24	19	16	19	257	640
PIC020	18	24	20	26	18	14	21	26	26	23	23	34	273	29	23	20	18	33	25	18	25	9	16			216														489
PIC021	31	24	32	14	22	29	36	31	29	27	27	20	322	25	26	41	35	30	35	28	31	25	28	34	24	362		27	24	26	25	35	23	25	35	45	27	33	355	1039
PIC022	29	30	27	15	28	34	19	21	24	27	30	10	294	37	37	26	25	24	27	35	27	34	22	45	54	393	55	42	63	34	49	44	51	52	39	57	50	56	592	1279
PIC023	25	27	30	35	24	24	37	24	44	33	30	36	369	31	28	31	29	30	27	29	34	26	32	34	43	374	32	35	36	24	27	33	30	14	33	22	30	36	352	1095
PIC024	30	36	31	25	31	25	29	27	29	26	23	36	348	22	23	24	25	24	17	21	19	15	14	21	24	249	25	19	19	22	20	15	17	11	23	24	20	25	240	837
PIC025	6	6	9	10	10	6	11	4	11	8	8	9	98	10	7	7	5	4	6	7	10	8	7	14	6	91	8	3	9	10	10	10	9	9	11	8	5	9	101	290
PIC026	61	62	64	57	54	61	68	57	78	69	76	72	779	73	65	81	81	80	87	78	70	76	74	76	88	929	76	72	82	80	74	88	88	85	86	73	86	92	982	2690
PIC027	27	21	27	14	23	29	27	25	36	33	29	47	338	32	38	37	25	18	23	23	20	23	24	37	37	337	33	36	31	26	27	19	21	25	23	23	33	32	329	1004
PIC028 PIC029	4	3	1	2 26	6	2 35	3	2 25	1	2 23	2 31	42	32	4	5 22	2 43	2 34	4 33	5 26	2 37	3	4	2	2 55	5 57	40 434	25	5	1	43	1	3	4	4 40	64	1	44	1	22	94
PIC029 PIC031	44 45	28 36	29 37	26 29	26 40	32	25 38	39	29 25	34	42	50	363 447	38 40	41	43	34 41	33 40	∠6 41	42	32 32	28 36	29 37	55 40	43	434	35 48	37 43	44 46	43 35	36 32	44 55	29 39	40	33	62 32	41 35	60 36	535 474	1332 1395
PIC031	40	30	37	28	37	38	42	25	36	32	28	28	401	25	31	38	21	34	34	33	34	46	44	56	39	435	28	26	30	30	29	37	31	31	38	33	33	35	381	1217
PIC032	86	75	69	82	31 77	82	80	76	77	93	90	71	958	89	55	76	86	61	93	76	69	83	82	79	94	943	88	73	79	67	68	84	67	88	36 75	59	33 78	69	895	2796
PIC033	45	31	38	46	36	51	33	32	40	52	40	42	486	39	36	47	29	37	34	34	37	33	40	38	46	450	35	40	49	33	31	35	24	37	38	40	45	38	445	1381
PIC035	70	01	50	70	00	01	55	02	40	02	40	74	700	85	78	90	95	63	84	86	86	87	84	85	71	994	82	82	86	72	77	76	83	81	93	98	105	85	1020	2014
PIC036														49	37	34	44	33	43	33	32	45	41	45	52	488	50	48	62	46	37	39	38	33	31	36	48	51	519	1007
PIC037														.5	٠.	٠.	• •	-	.0		-	19	41	38	21	119		38	28	28	41	51	47	36	34	36	43	26	434	553
PIC039	58	46	52	45	60	59	62	52	62	68	62	56	682	55	60	58	65	63	80	68	59	69	59	67	66	769		64	59	58	63	70	78	75	72	68	49	66	788	2239
	7	0	ღ	و و	œ	œ	4	0	4	-	6	-	49	0	و و	Ţ	ဗ	rὑ	4	ŕΟ	6	īυ	Ŋ	6	စ	Σ	ဖွ	œ	2	4	ტ	စ္	œ	0	0	6	စ္	o	2	46
TOTAL	1487	131	150	1359	1398	1458	1414	1300	151	1521	1609	1691	17564	1660	1459	1701	1583	154	1594	1585	1449	157	163	1769	184	19401	1706	1588	17	1454	153	1609	1538	1470	1640	1619	1709	1800	19381	56346

### (This is an example report only)

OrganisationID	First Event	Last Event	First Edit	Last Edit	Events	Events With No Errors	Missing Values	Warnings	Errors	Total Errors
PIC001	01/11/2002	31/05/2012	22/03/2012	19/06/2012	10901	10539	437	17	19	473
PIC002	02/01/2003	18/05/2012	01/11/2011	21/05/2012	2570	2570	0	0	0	0
PIC003	02/11/2002	30/12/2011	20/04/2012	20/04/2012	6341	6341	0	0	0	0
PIC004	05/03/2002	10/05/2012	19/01/2012	22/05/2012	5044	3690	7427	68	90	7585
PIC005	04/11/2002	14/06/2012	13/12/2011	15/06/2012	2827	2802	36	0	0	36
PIC006	01/11/1993	29/05/2012	05/10/2011	20/06/2012	8330	8260	70	0	0	70
PIC008	01/11/2002	16/05/2012	20/10/2011	18/06/2012	4301	4276	26	0	0	26
PIC009	01/11/2002	18/06/2012	25/10/2011	20/06/2012	3759	3703	56	1	0	57
PICO10	02/11/2002	04/04/2012	21/06/2011	20/04/2012	10380	10380	0	0	0	0
PIC011	16/01/2003	20/03/2012	20/04/2012	20/04/2012	8667	8667	0	0	0	0
PIC012	01/01/2003	28/03/2012	21/02/2012	13/04/2012	10771	7196	3836	787	4724	9347
PIC013	01/03/2003	02/06/2012	16/01/2012	07/06/2012	3955	2563	2249	60	5	2314
PIC014	01/03/2003	15/04/2012	20/02/2012	26/04/2012	5823	5745	182	0	8	190
PIC015	01/03/2003	11/06/2012	06/10/2011	13/06/2012	4130	3899	423	0	32	455
PIC016	16/06/2003	29/04/2012	19/01/2012	22/05/2012	3126	2942	341	43	3	387
PIC017	04/03/2003	05/08/2010	10/05/2012	10/05/2012	776	776	0	0	0	0
PIC018	01/11/2002	20/06/2012	10/10/2011	21/06/2012	6344	6072	833	4	0	837
PIC019	01/11/2002	11/06/2012	10/10/2011	15/06/2012	1875	1867	14	0	0	14
PICO20	02/11/2002	31/10/2010	21/05/2012	21/05/2012	2393	2393	0	0	0	0
PIC021	01/11/2002	31/01/2012	20/04/2012	20/04/2012	3136	3136	0	0	0	0
PIC022	02/11/2002	09/06/2012	21/06/2011	18/06/2012	3232	3210	68	1	0	69
PIC023	01/11/2002	31/05/2012	01/11/2011	20/06/2012	3672	3629	119	0	0	119
PIC024	01/11/2002	01/02/2012	20/04/2012	20/04/2012	2804	2804	0	0	0	0
PIC025	01/11/2002	30/12/2011	20/04/2012	20/04/2012	819	819	0	0	0	0
PIC026	01/11/2002	07/06/2012	09/12/2011	14/06/2012	7357	7277	251	3	4	258
PIC027	01/11/2002	10/06/2012	17/10/2011	15/06/2012	3019	2985	37	0	0	37
PIC028	01/11/2002	05/04/2012	01/11/2011	31/05/2012	396	396	0	0	0	0
PIC029	01/11/2002	16/06/2012	06/10/2011	20/06/2012	4598	4555	64	0	0	64
PIC031	07/12/2004	10/04/2012	20/04/2012	20/04/2012	3356	3356	0	0	0	0
PIC032	13/02/2007	18/05/2012	23/01/2012	11/06/2012	2141	2140	1	0	0	1
PIC033	01/01/2001	04/10/2012	17/01/2012	12/06/2012	4704	4400	4061	136	2	4199
PIC034	21/04/2008	11/03/2012	18/11/2011	15/06/2012	1735	1686	99	40	1	140
PIC035	18/12/2008	09/04/2012	20/04/2012	20/04/2012	3128	3128	0	0	0	0
PIC036	01/01/2010	21/03/2012	20/04/2012	20/04/2012	1134	1134	0	Ŭ	_	_
PIC037	03/09/2010	12/06/2012	01/12/2011	21/06/2012	656	570	506	19	9	534
PIC038	20/01/2012	26/03/2012	12/03/2012	29/05/2012	15	0	15	0	0	15
PIC039	01/03/2003	03/02/2012	20/04/2012	20/04/2012	6471	6471	0	0	0	0
					154686	146377	21151	1179	4897	27227

### APPENDIX K PUBLICATIONS / PRESENTATIONS

#### **K.1** Publications

Journal	Title	Authors
Pediatrics (2004) <b>113</b> 1653-1657	Trends in the incidence of severe retinopathy of prematurity in a geographically defined population over a 10-year period	Hameed B, Shyamanur K, Kotecha S, Manktelow B, Woodruff G, Draper ES & Field D
Archives of Disease in Childhood (2005) <b>90</b> 380-387	Neuropsychological and educational problems at school age associated with neonatal encephalopathy	Marlow N, Rose AS, Rands CE & Draper ES
Archives of Disease in Childhood (2005) <b>90</b> 1182-1187	Epidemiology of traumatic brain injury in children receiving intensive care in the UK	Parslow RC, Morris KP, Tasker RC, Forsyth RJ & Hawley C
British Medical Journal (2005) <b>330</b> 43 (1 January)	Paediatric cardiac surgical mortality after Bristol: details of risk adjustment tools were not given (letter)	Parry GJ, Draper ES & McKinney P
British Medical Journal (2005) <b>330</b> 877-879 (16 April)	A feasibility study of signed consent for the collection of patient identifiable information for a national paediatric clinical audit database	McKinney PA, Jones S, Parslow R, Davey N, Darowski M, Chaudhry B, Stack C, Parry G, Draper ES for the PICANet Consent Study Group
European Journal of Obstetrics, Gynecology & Reproductive Biology (2005) <b>118</b> 272-274	Presentation of the European project models of organising access to intensive care for very preterm births in Europe (MOSAIC) using European diversity to explore models for the care of the very preterm babies.	Zeitlin J, Papiernik E, Breart G, Draper E & Kollee L
Prenatal Diagnosis (2005) <b>25</b> 286-291	Population based study of the outcome following the antenatal diagnosis of cystic hygroma	Howart ES, Draper ES, Budd JLS, Konje J, Kurinczuk JJ & Clarke M
Emergency Medical Journal (2006) <b>23</b> 519-522	Emergency access to neurosurgery in the United Kingdom	Tasker RC, Morris KP, Forsyth RJ, Hawley CA, Parslow RC, on behalf of the UK Paediatric Brain Injury Study
Intensive Care Medicine (2006) <b>32</b> (9) 1458	Organ donation in paediatric traumatic brain injury	Morris KP, Tasker RC, Parslow RC, Forsyth RJ, Hawley CA
Intensive Care Medicine (2006) <b>32</b> (10) 1606-1612	Monitoring and management of intracranial pressure complicating severe traumatic brain injury in children	Morris KP, Forsyth RJ, Parslow RC, Tasker RC, Hawley CA on behalf of the UK Paediatric Traumatic Brain Injury Study Group and the Paediatric Intensive Care Society Study Group
Pediatrics (2006) <b>117</b> 733-742	Assessment and optimisation of mortality prediction tools for admissions to paediatric intensive care in the United Kingdom	Brady AR, Harrison D, Black S, Jones S, Rowan K, Pearson G, Ratcliffe J, Parry GJ; UK PICOS Study Group
Archives of Disease in Childhood Fetal & Neonatal Ed (2007) <b>92</b> 356-360.	Mortality patterns of very preterm babies: a comparative analysis of two European regions in France and England	Draper ES, Zeitlin J, Field DJ, Manktelow BN, Truffert P.
Paediatric Intensive Care Medicine, (2008) <b>9</b> (1) 8-14	Prediction of raised intracranial pressure complicating severe traumatic brain injury in children: implications for trial design	Forsyth RJ, Parslow RC, Tasker RC, Hawley CA, Morris KP. On behalf of the UK Paediatric Traumatic Brain Injury Study Group and the Paediatric Intensive Care Society Study Group (PICS SG)
British Medical Journal (2008) <b>336</b> 7655	Survival of extremely preterm babies in a geographically defined population: prospective cohort study of 1994-9 compared to 2000-5.	Field DJ, Dorling JS, Manktelow B, Draper ES
American Journal of Epidemiology, (2008) <b>167</b> 485- 491.	Recreational drug use: a major risk factor for gastroschisis?	Draper ES, Rankin J, Tonks A, Abrams K, Field DJ, Clarke M, Kurinczuk JJ
Archives of Disease in Childhood (2009) <b>94</b> 210 - 215	Epidemiology of Critical III Children in England and Wales: incidence, mortality, deprivation and ethnicity	Parslow RC, Tasker RC, Draper ES, Parry GJ, Jones S, Chater T, Thiru K, McKinney P on behalf of Paediatric Intensive Care Audit Network
British Medical Journal (2009) <b>338</b> b1749	Institutional Performance (letter)	McShane P, Draper ES, McKinney P, Parslow R
Pediatric Critical Care Medicine 27 Feb 2009.	Hyperglycemia and insulin therapy in the critically ill child.	Nayak P, Lang H, Parslow RC, Davies P, Morris KP, on behalf of UK Paediatric Intensive Care Society Study Group.

Diabet. Med, 2010; 27, 705–708	Paediatric intensive care admissions for acute diabetic complications.	Burns MR, Bodansky HJ, Parslow RC
Acta Paediatr, 2010 99(8):1186- 119.1	Deprivation, ethnicity and prematurity in infant respiratory failure in PICU in the UK.	O'Donnell DR, Parslow RC, Draper ES
Palliative Med (September 2010) <b>6</b> 608-615	Palliative care discharge from paediatric intensive care units in Great Britain.	Fraser LK, Fleming T, Miller M, Draper ES, McKinney PA, Parslow RC
Archives of Disease in Childhood [2010] doi:10.1136/adc.2009.178269	Place of Death and Palliative Care following discharge from Paediatric Intensive Care Units.	Fraser LK, Miller M, Draper ES, McKinney PA, Parslow RC
Multiple Sclerosis [Sep 27 <sup>th</sup> 2010] Doi:10.1177/1352458510382554	Inflammatory Demyelination Working Group and the Paediatric Intensive Care Audit Network. Severe Acute Disseminated Encephalomyelitis: A Paediatric Intensive Care population based study	M Absoud, R C Parslow, E Wassmer, C Hemingway, H P Duncan, C Cummins, M J Lim On behalf of The UK & Ireland Childhood CNS Inflammatory Demyelination Working Group and PICANet
Lancet <b>376</b> (9742):698-704.	Effect of specialist retrieval teams on outcomes in children admitted to paediatric intensive care units in England and Wales: a retrospective cohort study.	Ramnarayan P, Thiru K, Parslow RC, Harrison DA, Draper ES, Rowan KM.
Br J Neurosurg [2011] Feb 25(1):68-77.	Severe Head Injury in Children: intensive care unit activity and mortality in England and Wales.	Tasker RC, Fleming TJ, Young AER, Morris KP, Parslow RC.
Anaesthesia 2012 doi:10.1111/j.1365- 2044.2012.07159.x	Anaphylaxis admissions to UK critical care units between 2005-2009	B Gibbison D Harrison P McShane C Haddow A Sheikh J Soar
Archives of Disease in Childhood 2011; <b>96</b> :Suppl 1 A90	Tracheostomy in children admitted to Paediatric Intensive Care	Dora Wood, Philip McShane, Peter Davis
Intensive Care Medicine, online 1 <sup>st</sup> , 9 <sup>th</sup> May 2012	International comparison of the performance of the paediatric index of mortality (PIM) 2 score in two national data sets.	Stéphane Leteurtre, Bruno Grandbastien, Francis Leclerc, Roger Parslow and Groupe Francophone de Réanimation et Urgences Pédiatriques, et al.

#### K.2 Abstracts

Abstract	Title	Authors
Health Protection Agency (HPA) Annual Conference, 12-15 September 2005, Warwick (oral presentation)	Mortality, deprivation and ethnicity of critically ill children in England and Wales: preliminary findings from the Paediatric Intensive Care Audit Network (PICANet)	Parslow RC, Tasker RC, Chater T, Davey N, Draper ES, Jones S, Parry GJ & McKinney PA.
European Society for Paediatric and Neonatal Intensive Care (ESPNIC) annual conference, 15-17 September 2005, Antwerp (oral presentation)	Mortality, deprivation and ethnicity of critically ill children in England and Wales: preliminary findings from the Paediatric Intensive Care Audit Network (PICANet)	Parslow RC, Tasker RC, Chater T, Davey N, Draper ES, Jones S, Parry GJ, Thiru K & McKinney PA.
Developmental Medicine and Child Neurology (2005) <b>47</b> (Suppl 101) 4	Design of randomized controlled trials of the management of raised intracranial pressure in paediatric traumatic brain injury	Forsyth RJ, Morris K, Parslow RC, Hawley C & Tasker RC
5 <sup>th</sup> World Congress on Pediatric Critical Care, 24-28 June 2007, Geneva, Switzerland (oral presentation)	Infants admitted to paediatric intensive care with acute respiratory failure in England and Wales	Parslow RC, McKinney PA, Draper ES, O'Donnell R
5 <sup>th</sup> World Congress on Pediatric Critical Care, 24-28 June 2007, Geneva, Switzerland (poster presentation)	Collecting national data for clinical audit: The Paediatric Intensive Care Audit Network in Great Britain	Parslow RC, McKinney PA, Draper ES, Thiru K
5 <sup>th</sup> World Congress on Pediatric Critical Care, 24-28 June 2007, Geneva, Switzerland (poster presentation)	Admission to PICU with severe bronchiolitis and acute respiratory failure after preterm birth is associated with a longer duration of stay and a higher incidence of apnoeas but not mortality	O'Donnell DR, Parslow RC, McKinney PA, Draper ES
5 <sup>th</sup> World Congress on Pediatric Critical Care, 24-28 June 2007, Geneva, Switzerland (poster presentation)	Severe bronchiolitis is associated with the annual UK winter increase in PICU admissions and prolonged stay compared with other diagnoses	O'Donnell DR, Parslow RC, McKinney PA, Draper ES
5 <sup>th</sup> World Congress on Pediatric Critical Care, 24-28 June 2007, Geneva, Switzerland (poster presentation)	Hyperglycaemia and insulin therapy in UK paediatric intensive care units	Nayak P, Morris KP, Parslow RC
5 <sup>th</sup> World Congress on Pediatric Critical	The effect of missing data on PIM-predicted SMR	Emsden S, Baines P, McClelland T, Parslow

Care, 24-28 June 2007, Geneva, Switzerland (oral presentation)		RC
5 <sup>th</sup> World Congress on Pediatric Critical Care, 24-28 June 2007, Geneva, Switzerland (poster presentation)	Clinical information system utilisation in paediatric intensive care: A UK perspective	Ramnarayan P, Thiru K, Rowe S on behalf of pan Thames Health Informatics Group
The 15th Annual Public Health Forum, Edinburgh International Conference Centre, 28-29 March 2007, Edinburgh, UK (poster presentation)	Using Data to Inform Commissioning of Paediatric Intensive Care	Sidhu S, Rowe S & Thiru K
HSRN and NIHR SDO Programme joint annual conference. 4 & 5 June 2008, Manchester University Conference Centre (oral presentation)	Workforce wellbeing in paediatric intensive care units with and without extended nursing roles.	Coleby D, Tucker J, Draper E, Parry G, McKee L, Skatun D, Davey N, Darowski M
EASD Rome, 44th Annual Meeting of the European Association for the Study of Diabetes Rome, 7-11 September 2008 (Oral Presentation)	Title: Intensive care admissions for acute diabetic complications of children and adolescents in England and Wales.	Bodansky HJ, Parslow RC, Feltbower RG, McKinney PA.
PICS Annual Meeting, Holland House, Cardiff. 20 <sup>th</sup> November 2008	PIM Recalibration	Parslow RC
Royal College of Paediatrics and Child Health Conference 2009 30th March- 2nd April 2009 – York. (Poster presentation)	Exploring Gender Ratios in Child Mortality and Severe Illness in an Ethnically Mixed Population.	Robin L, Oddie S, Parslow RC.
6th World Congress on Paediatric Critical Care, 13 <sup>th</sup> -17 <sup>th</sup> March 2011 (oral presentation)	Paediatric Index of Mortality (PIM) score performance is improved by inclusion of admission blood lactate concentration.	P McShane, R C Parslow, J Stickley, K P Morris
6th World Congress on Paediatric Critical Care, 13 <sup>th</sup> -17 <sup>th</sup> March 2011 (oral presentation)	Increased mortality for long-stay patients on PICU: PIM2 is not predictive	D. Wood, P. McShane, P. Davis
6th World Congress on Paediatric Critical Care, 13 <sup>th</sup> -17 <sup>th</sup> March 2011 (poster presentation)	Tracheostomy On The Paediatric Intensive Care Unit.	D. Wood; P. McShane; P. Davis
6th World Congress on Paediatric Critical Care, 13 <sup>th</sup> -17 <sup>th</sup> March 2011 (poster presentation)	Implications Of Data Quality And Interface Problems Between Audit Management Systems On Mortality Outcome Of PICU	A.Deep , P McShane R.C Parslow
6th World Congress on Paediatric Critical Care, 13 <sup>th</sup> -17 <sup>th</sup> March 2011 (oral presentation)	Cardiac Arrest Requiring Intensive Care Admission: A United Kingdom Epidemiology Study.	B. Scholefield; H. Duncan; P. McShane; R. Parslow; R. Tasker; F. Gao; K. Morris
6th World Congress on Paediatric Critical Care, 13 <sup>th</sup> -17 <sup>th</sup> March 2011 (mini oral presentation)	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; H. Duncan; P. McShane; R. Parslow; R. Tasker; F. Gao; K. Morris
22 <sup>nd</sup> ESPNIC Medical and Nursing Annual Congress, 2 <sup>nd</sup> – 5 <sup>th</sup> Nov 2011 Hannover. (oral presentation)	Hospital admissions and mortality of children admitted to paediatric intensive care in the UK - a linkage study	P. Mc Shane, R.C. Parslow, P.A. Mc Kinney, E.S. Draper
22 <sup>nd</sup> ESPNIC Medical and Nursing Annual Congress, 2 <sup>nd</sup> – 5 <sup>th</sup> Nov 2011 Hannover. (oral presentation)	Lactate predicts mortality in a multicentre population in paediatric intensive care	P. McShane, S. Leteurtre, R.C. Parslow, F. Leclerc, E.S. Draper
22 <sup>nd</sup> ESPNIC Medical and Nursing Annual Congress, 2 <sup>nd</sup> – 5 <sup>th</sup> Nov 2011 Hannover. (oral presentation)	H1N1 influenza in paediatric intensive care in the UK and Ireland	R.C. Parslow, P. McShane, P. Lister, P.A. Mc Kinney, E.S. Draper
92 <sup>nd</sup> British Association Dermatologists meeting, 3 <sup>rd</sup> – 5 <sup>th</sup> July 2012(poster presentation)	Children with dermatological conditions admitted to paediatric intensive care: analysis of national clinical audit database	S George, D Harrison, P McShane, Kamal Patel, C Darley,

#### K.3 Presentations

Meeting/Conference	Venue	Date	Presentation Title	PICANet Team Attendees
NW Paediatric Intensive Care Seminar (North West Specialised Commissioning Group)	Dunkenhalgh Hotel, Clayton-le-Moors, Lancashire	23/06/2004	PICANet: Results of national activity	Sam Jones & Roger Parslow

PICANet AGM	London	24/06/2004	Presentation of National report	PICANet Team
Welsh National	Royal Welsh	28/07/2004	PICANet: Presentation of National	Liz Draper & Nicky
Commissioning Advisory Board Meeting	Showground, Builth Wells		and Welsh report	Davey
Strategic Issues in Health	University of St	02/09/2004	Collection of personally identifiable	Sam Jones
Care Management, Sixth	Andrews		information for a national clinical	
International Conference			database: how feasible is it to	
			obtain signed consent?	
PICS SG	Cambridge University	09/09/2004	PICANet: How can it be used for research and audit?	Nicky Davey, Sam Jones, Roger Parslow & Krish Thiru
Confidential Enquiry into	London	08/03/2005	National Paediatric Intensive Care	Liz Draper
Maternal and Child Health			Database (PICANet)	·
Intensive Care National	Savoy Hotel, London	13/04/2005	Why is it important to include	Sam Jones
Audit & Research Centre			information on paediatric	
(ICNARC): Eight Annual			admissions in the new Case Mix	
Meeting of the Case Mix Programme			Programme Dataset?	
Pan Thames Report Update:	London	06/05/2005	DICANIata Lindata on Dan Thomas	Krish Thiru & Sam
Commissioning Consortium	London	06/05/2005	PICANet: Update on Pan Thames data quality for commissioning	Jones
Paediatric Intensive Care	Royal Manchester	10/05/2005	The epidemiology of critical illness	Roger Parslow
Study Day	Children's Hospital		in children	
Trent PIC commissioners	QMC, Nottingham	12/05/2005	PICANet: Presentation of National	Liz Draper
Paediatric Intensive Care	Royal Liverpool	13/05/2005	report 2003-2004  Role of PICANet and the relevance	Nicky Davey & Sam
Trainee Meeting	Children's Hospital	13/03/2003	of the national audit to the clinical	Jones
Trained Miceling	(Alder Hey)		community	301103
PICANet AGM	London	24/05/2005	Presentation of National report	PICANet Team
NORCOM, TRENTCOM &	Leicester	13/06/2005	PICANet in LNR, Trent & South	Liz Draper
LNR PIC commissioners			Yorkshire PCTs	
Health Protection Agency	Warwick	12/09/2005	Mortality, deprivation and	Roger Parslow
(HPA) annual conference			ethnicity of critically ill children in	
			England and Wales: preliminary	
			findings from the Paediatric	
			Intensive Care Audit Network	
Dandintuin Cuitinal Coun	Landa	06/10/2005	(PICANet) PICANet: Presentation of national	Tuicia Mal/inua
Paediatric Critical Care	Leeds	06/10/2005	data and relevance to	Tricia McKinney
Network Board (East Leeds PCT)			commissioning	
Welsh National	Lamb and Flag	11/10/2005	PICANet: Presentation of National	Gareth Parry
Commissioning Advisory	Hotel, Llanwenarth,	11/10/2003	and Welsh Report	Garcentany
Board Meeting	Abergavenny		and Weish Report	
PICANet AGM	Perinatal Institute,	29/06/2006	Presentation of the National	PICANet Team
	Birmingham		Report	
Pan Thames Commissioners	London	28/07/2006	Pan Thames PICANet Report 2004-	Krish Thiru, Tricia
Meeting		16.6	2005	McKinney
Paediatric Intensive Care	Glasgow	16 &	PICU Health Informatics	Krish Thiru
Society Scientific Meeting	Donartment of	17/11/2006	The LIV Pandiatric Traumatic Prair	Pogor Parelow
University of Leicester,	Department of Health Sciences.	14/03/2007	The UK Paediatric Traumatic Brain Injury Study	Roger Parslow
	University of		injury study	
	Leicester			
Pan Thames Commissioners	ASIA House	14/06/2007	PICANet and the PCCMDS	Roger Parslow
PbR Roadmap		2., 30, 2007		
Exploiting Existing Data for	University of St	19/09/2007	Privacy preserving record linkage	Tom Fleming
Health Research	Andrews			
PICANet AGM	Leeds University	04/07/2007	Presentation of the National	PICANet Team
	Business School		Report	
PICANet Annual Meeting	Bristol Children's	06/11/2008	Revision and recalibration of PIM2	Roger Parslow
DICC Amount or set!	Hospital	20/44/2000	for great Britain	Dames Davida
PICS Annual meeting	Holland House Cardiff	20/11/2008	The PICANet Report	Roger Parslow
	Į	/ /	Clinical Information systems in UK	Krish Thiru
PICS Annual Meeting	Holland House.	20/11/2008	Cillical illiornation systems in un	KIISH HIII U
PICS Annual Meeting	Holland House, Cardiff	20/11/2008	PIC: Opportunities and challenges	KIISH IIIII U
PICS Annual Meeting		20/11/2008		Kiisii iiiiiu
PICS Annual Meeting  National Clinical Advisory		20/11/2008	PIC: Opportunities and challenges	Roger Parslow

Group (NCAAG)			outputs.	
PICS Annual Meeting	Cambridge	3 & 4/09/2009	The PICANet Report	Liz Draper
PICANet AGM	Institute of Child Health, London	12/11/2009	Presentation of the National Report	PICANet Team
2010 International Trauma Care Conference	Park Inn, Telford	13/05/2010	PICANet Data	Roger Parslow
PICS SG Summer Meeting	Lord's Cricket Ground, London	09/07/2010	H1N1 – How should we use our data?	Roger Parslow
PICANet AGM	Perinatal Institute, Birmingham	14/10/2010	Presentation on National Report	Roger Parslow/ Liz Draper
PICANet AGM	Thackray Medical Museum, Leeds	11/10/2011	Presentation on National Report	Roger Parslow/ Liz Draper

# WEEK COMMENCING – 14<sup>th</sup> November 2011



# PICU Staffing Study 2011

A study of occupancy & nursing and medical staffing provision

# Nursing Establishment and Staffing Information

_	DI	instructions	
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_	I ICase see	mon actions	UVCIICA

•	Please complete every	column,	insert zero	if no	staff	at this	grade
---	-----------------------	---------	-------------	-------	-------	---------	-------

PLEASE COMPLETE:-	Site ID
Hospital	
Unit	
Form completed by:	
(print name)	

Nu	Bands of ursing Staff
Band	2 - 4
Band	5
Band	6
Band	7

8 Modern Matron

8 Nurse Consultant

3.

9 Nurse Consultant higher

Other please specify detailsi.e. Agency / Bank incl: Band

1.	<b>4.</b>	3.	4.	5.	0.	/•
Nursing establishment W.T.E. Exclude supernumerary student nurses, receptionists, clerks, housekeepers	No. of persons currently in post	Combined W.T.E. of persons currently in post	No. of specialist nurses with paediatric intensive care qualification	No. of registered children's nurses  RSCN or degree or diploma recognised by NMC in children's branch of nursing	No. with Valid Paediatric Resuscitation Training	No. with Valid Advanced Paediatric Resuscitation Training

Additional information:-	(Please tick appropriate bo			x)
1. Does your unit have a Family Care Sister?	YES		NO	
2. Does your unit have a Discharge co-ordinator?	YES		NO	
3. Does your unit provide training for nursing staff in PIC in collaboration with local universities?	YES		NO	

Please return in FREEPOST envelope supplied to:-

Caroline Lamming, PICANet Research Nurse, University of Leicester, Dept. of Health Sciences, FREEPOST LE3296, 22-28 Princess Road West, Leicester LE1 6TP

By 25/11/2011

# PICU Staffing Study 2011



# HOW TO FILL IN THE Nursing Establishment and Staffing Information Form

This form applies to the **designated paediatric intensive care unit** in your hospital. **Only count HDU** if located in the same unit and staffed by the PICU shift staffing roster. The form collects information on both *STAFF and skill mix*.

Each PICU should complete one copy of this form. Every section should be completed once on the first day of the staffing study (Please enter zeros to show you have not missed a column).

#### **COUNTING STAFF - DIFFERENT GROUPS OF STAFF**

Only count the staff included in the establishment to deliver clinical care to patients. EXCLUDE clerical staff, receptionists, housekeepers and supernumerary student nurses

- 1. The current combined, whole time equivalent, funded nursing establishment of persons working at this grade to give clinical care. Include all clinical nursing staff, any link nurses employed to give clinical care, any learners or nurses in training but only if not supernumerary.
- 2. The overall total number of (persons) on your PICU currently in post at this grade.
- 3. The combined whole time equivalents of staff currently in post at this grade i.e. a nurse working part time may only be 0.5 WTE.
- **4.** The number of specialist nurses with a paediatric nursing intensive care qualification currently in post. Include all specialist nurses in PIC with a critical care course qualification (equivalent to the former ENB 415).
- 5. The number of registered children's nurses currently in post to give clinical care. Include all nurses with an RSCN or degree or diploma in children's branch nursing recognised by the NMC.
- 6. The number of nurses currently in post with valid Paediatric Resuscitation training or equivalent
- 7. The number of nurses currently in post with valid Advanced Paediatric Resuscitation training or equivalent

If you have any additional queries please contact: Caroline Lamming tel: 0116 252 5414 or email:crl4@leicester.ac.uk

We advise you to retain a photocopy of the completed form.

Using the FREEPOST envelope supplied, please return the completed forms by FRIDAY 25th NOVEMBER 2011, to:-

Caroline Lamming PICANet Research Nurse University of Leicester, Dept. of Health Sciences, FREEPOST LE3296 22-28 Princess Road West, Leicester LE1 7ZE



# PICU Staffing Study 2011 A study of occupancy & nursing and medical staffing provision

# Medical Establishment Information

- Please see instructions overleaf
- Please complete every column, insert zero if no staff at this

grade							
Type of Medical staff	1. Medical establishment W.T.E.	2. No. of staff currently in post	3. Combined W.T.E. of staff currently in post	4. No. with valid APLS training			
Foundation Year 1 -2							
ST1-3 Paediatrics							
ST4-8 Paediatrics							
ST1-3 Anaesthesia							
ST4-8 Anaesthesia							
Consultant Paediatric Intensivists							
Consultant Paediatricians							
Consultant Anaesthetists							
Other Consultants working on PICU							
Any other medical staff working on PICU Insert grade  1. Grade:  2. Grade:  3. Grade							
Hospital Unit Form completed by	_	ease return in FREER roline Lamming, CANet Research Nur iversity of Leicester epartment of Health S EEEPOST LE3296	se				

	Site ID
Hospital	
Unit	
Form completed by (print name) Email address	

22-28 Princess Road West, Leicester LE1 7ZE

By 25/11/2011



### HOW TO FILL IN THE Medical Establishment Information Form

This form applies to the **designated paediatric intensive care unit** in your hospital. **Only count HDU** if located in the same unit and staffed by the PICU shift staffing roster. The form collects information on both *STAFF and skill mix*.

Each PICU should complete one copy of this form. Every section should be completed once on the first day of the staffing study. (Please enter zeros to show you have not missed a column)

#### **COUNTING STAFF - DIFFERENT GROUPS OF STAFF**

Only count the staff who deliver or are on call to deliver clinical care to patients. EXCLUDE supernumerary medical students etc.

- 1. The current combined, whole time equivalent, funded medical establishment of persons working at this grade. Include all medical staff but only if <u>NOT</u> supernumerary.
- 2. The overall total number of staff (persons) on your PICU currently in post at this grade.
- 3. The combined whole time equivalents of staff currently in post at this grade i.e. a doctor working half time will be 0.5 WTE.
- 4. The shift pattern of staff at this grade e.g. 12 hour shifts to cover a 24 hour period.
- 5. The number of doctors currently in post with valid Advanced Paediatric Life Support or equivalent.

If you have any additional queries please contact: Caroline Lamming tel: 0116 252 5414 or email:crl4@leicester.ac.uk

We advise you to retain a photocopy of the completed form.

Using the FREEPOST envelope supplied, please return the completed forms by FRIDAY  $25^{TH}$  NOVEMBER 2011, to:-

Caroline Lamming PICANet Research Nurse, University of Leicester, Dept. of Health Sciences, FREEPOST LE3296, 22-28 Princess Road West,

Leicester LE1 7ZE

# PICU Staffing Study 2011



A study of occupancy & nursing and medical staffing provision

# Other Professionals Survey Form

- Applies to the designated PICU in your hospital
- Please complete every column, insert zero if no staff at this grade or access to this service
- If you have any queries please contact Caroline Lamming 0116 252 5414 or email <a href="mailto:crl4@leicester.ac.uk">crl4@leicester.ac.uk</a>

1.	2.		3.	4.
Type of Staff	Please tick if your unit has dedicated time	of sess week	number sions per i.e. half 1 session	Please tick if attends the daily clinical round
Paediatric Pharmacist				
Paediatric Physiotherapist				
Paediatric Dietician				
Play Specialists				
Any other staff group working on PICU				
1.				
2.				
Please tick the boxes below if your PI		ving:-		
5.	6. Access to service	7. Time dedicated to PICU		8. Time dedicated
Type of Service	in hospital	to ]	PICU	to paediatrics services
Type of Service  Interfaith support	in hospital	to ]	PICU	-
	in hospital	to ]	PICU	-
Interfaith support	in hospital	to ]	PICU	-
Interfaith support Social Workers	in hospital	to	PICU	-
Interfaith support Social Workers Interpreters	in hospital	to	PICU	-
Interfaith support  Social Workers  Interpreters  Bereavement Support	in hospital	to	PICU	-
Interfaith support  Social Workers  Interpreters  Bereavement Support  Patient Advice and Advocacy Service	in hospital	to	PICU	-

### Occupancy/ Nursing & Medical Log A



- Please complete at 12 noon on Wednesday 16/11/2011
- Please see notes for completion overleaf

Bands of Nursing staff	No. on duty at 12 noon	Total number with PIC qualification	Grades of Medical staff	No. on duty at 12 noon	No. on call at 12 noon
Band 2 - 4			Foundation Years 1-2		
Band 5			ST1-3 equivalent		
Band 6			ST4-8 equivalent		
Band 7			Cons. Paediatric Intensivists		
Band 8 Modern Matron			Consultant Paediatricians		
Band 8 Nurse Consultant			Consultant Anaesthetists		
Band 9 Nurse Consultant higher level					
Other please specify details- i.e. Agency / Bank incl. band			Other Consultants wo speciality below:-	rking on PIC	<b>U</b> , specify
1.			1.		
2.			2.		
3.			3.		

**Additional Information** to be collected at 12 noon

Number of beds on PICU	No. of funded beds	No. of Beds Open & Open & Closed occupied empty		Reason for closure i.e. sickness, infection, staff shortage	
ICU designated					
HDU designated					

Total number of children in the unit	No. Level IV	No. Level III	No. Level II	No. Level I	No. Retrievals/Transfers during prev. 12 hr period.

PLEASE COMPLETE:-	Site ID	Please retu FREEPOS
Hospital		Caroline I PICANet
Unit		University
Form completed by: (print name) Contact tel. no:		Dept. of F FREEPOS 28 Princes Leicester
Email address:		by 25/11

urn in ST envelope to:-

Lamming, Research Nurse, y of Leicester, Health Sciences, ST LE3296, 22ss Road West, LE1 7ZE.

1/2011

### Occupancy/ Nursing & Medical Log B

- Please complete at 12 midnight on Weds 16/11/2011
- Please see notes for completion overleaf

Bands of Nursing staff	No. on duty at 12 midnight	Total number with PIC qualification	Grades of Medical staff	No. on duty at 12 midnight	No. on call at 12 midnight
Band 2 - 4			Foundation Years 1-2		
Band 5			ST1-3 equivalent		
Band 6			ST4-8 equivalent		
Band 7			Cons. Paediatric Intensivists		
Band 8 Modern Matron			Consultant Paediatricians		
Band 8 Nurse Consultant			Consultant Anaesthetists		
Band 9 Nurse Consultant higher level					
Other please specify details- i.e. Agency / Bank incl. band			Other Consultants was speciality below:-	orking on PI	CU, specify
1.			1.		
2.			2.		
3.			3.		

Additional
Information
to be
collected at
12 midnight

Number of beds	No. of funded		No. of Beds	Reason for closure i.e. sickness, infection,	
on PICU	beds	Open & occupied	Open & empty	Closed	staff shortage, financial
ICU designated					
HDU designated					

Total number of children in the unit	No. Level IV	No. Level III	No. Level II	No. Level I	No. Retrievals/Transfers during prev. 12 hr period.

PLEASE COMPLETE:-	Site ID
Hospital	
Unit	
Form completed by: (print name) Contact tel. no: Email address:	
Linaii addiess.	

Please return in FREEPOST envelope to:-

Caroline Lamming, PICANet Research Nurse University of Leicester Dept. of Health Sciences, FREEPOST LE3296 22-28 Princess Road West Leicester, LE1 7ZE.

 $by\ 25/11/2011$ 

### Occupancy/ Nursing & Medical Log C



- Please complete at 12 noon on Sunday 20/11/2011
- Please see notes for completion overleaf

Bands of Nursing staff	No. on duty at 12 noon	Total number with PIC qualification	Grades of Medical staff	No. on duty at 12 noon	No. on call at 12 noon
Band 2 - 4			Foundation Years 1-2		
Band 5			ST1-3 equivalent		
Band 6			ST4-8 equivalent		
Band 7			Cons. Paediatric Intensivists		
Band 8 Modern Matron			Consultant Paediatricians		
Band 8 Nurse Consultant			Consultant Anaesthetists		
Band 9 Nurse Consultant higher level					
Other please specify details- i.e. Agency / Bank incl. band			Other Consultants wo speciality below:-	rking on PIC	U, specify
1.			1.		
2.			2.		
3.			3.		

Additional Information to be collected at 12 noon

Number of beds	No. of funded		No. of Beds	Reason for closure i.e. sickness, infection,	
on PICU	beds	Open & occupied	Open & empty	Closed	staff shortage, financial
ICU designated					
HDU designated					

Total number of children in the unit	No.	No.	No.	No.	No. of
	Level	Level	Level	Level	Retrievals/Transfers
	IV	III	II	I	during prev. 12 hr period.

PLEASE COMPLETE:-	Site ID
Hospital	
Unit	
Form completed by: (print name) Contact tel. no: Email address:	

Please return in *FREEPOST envelope* to:-

Caroline Lamming PICANet Research Nurse University of Leicester Dept. of Health Sciences FREEPOST LE3296 22-28 Princess Road West Leicester, LE1 7ZE

by 25/11/2011



## PICU Staffing Study

November 2011

### HOW TO FILL IN THE Occupancy/Nursing & Medical Log

This form applies to the **designated paediatric intensive care unit** in your hospital. **Only count HDU** if located in the same unit and staffed by the PICU shift staffing roster. The form collects information on both *STAFF and skill mix* and *OCCUPANCY and illness severity* by actual **counts on the unit at noon and midnight** 

EVERY section of the form should be completed by the nurse in charge of the unit at the time and date specified

Please complete every column, insert zero if no staff at this grade

#### **COUNTING STAFF - DIFFERENT GROUPS OF STAFF**

#### **NURSING STAFF**

Only count the staff on duty to deliver clinical care to patients. INCLUDE nurse in charge and runner EXCLUDE clerical staff, receptionists, housekeepers and supernumerary student nurses

- 1. The <u>overall total number</u> of nurses on duty <u>at this time</u> to give clinical care. Include all clinical nursing staff, any link nurse present giving clinical care, any learners or nurse in training but only if not supernumerary.
- **2.** The number of nurses with a nationally paediatric nursing intensive care qualification on duty at this time to give clinical care. Include all specialist nurses in PIC with a critical care course qualification: equivalent to the former ENB 415.

NOTE only count YOUR CLINICAL NURSE MANAGER for example, if on the unit at noon or midnight giving clinical care. (includes on ward round)

#### MEDICAL STAFF

Count the number of medical staff on duty and the number on call at the specified time.

#### COUNTING INFANTS/CHILDREN - DIFFERENT GROUPS OF CHILDREN

Count the overall total children on your unit <u>at this time</u>. INCLUDE any children being retrieved in or transferred out from your unit at this time <u>by staff from your shift roster</u>

Count the number of children receiving each Level of Care I to IV (adhere to the PICS Standards)

If you have any additional queries please contact: Caroline Lamming tel: 0116 252 5414 or email:crl4@leicester.ac.uk

Using the FREEPOST envelope supplied, please return the completed forms by FRIDAY 25TH NOVEMBER, 2011, to:-

Caroline Lamming PICANet Research Nurse, University of Leicester, Dept. of Health Sciences, FREEPOST LE3296, 22-28 Princess Road West, Leicester LE1 7ZE

### Occupancy/ Nursing & Medical Log D



- Please complete at 12 midnight on Sunday 20/11/2011
- Please see notes for completion overleaf

Bands of Nursing staff	No. on duty at 12 midnight	Total number with PIC qualification	Grades of Medical staff	No. on duty at 12 midnight	No. on call at 12 midnight
Band 2 - 4			Foundation Years 1-2		
Band 5			ST1-3 equivalent		
Band 6			ST4-8 equivalent		
Band 7			Cons. Paediatric Intensivists		
Band 8 Modern Matron			Consultant Paediatricians		
Band 8 Nurse Consultant			Consultant Anaesthetists		
Band 9 Nurse Consultant higher level					
Other please specify details- i.e. Agency / Bank incl. band			Other Consultants was speciality below:-	vorking on PI	CU, specify
1.			1.		
2.			2.		
3.			3.		

Additional Information to be collected at 12 midnight

Number of beds	No. of funded		No. of Beds		Reason for closure
on PICU	beds	Open & occupied	Open & empty	Closed	i.e. sickness, infection, staff shortage, financial
ICU designated					
HDU designated	_				

Total number of children in the unit	No. Level IV	No. Level III	No. Level II	No. Level I	No. of Retrievals/Transfers during prev. 12 hr period.

PLEASE COMPLETE:-	Site ID
Hospital	
Unit	
Form completed by:  (print name)  Contact tel. no:  Email address:	

Please return in *FREEPOST envelope* to:-

Caroline Lamming PICANet Research Nurse University of Leicester Dept. of Health Sciences FREEPOST LE3296 22-28 Princess Road West Leicester, LE1 7ZE

By 25/11/2011

### APPENDIX M DATA REQUESTS RECEIVED SINCE LAST ANNUAL REPORT

More detailed information can be requested from picanet@leeds.ac.uk

Request date	Name	Position & Place of Work	Data requested	Date Provided	Data Provided by	Follow up – What has been done with the data?
03/05/12	David Fell	Consultant in Anaesthesia, Leicester Royal Infirmary	SURGICAL ADMISSIONS  Number of admissions to PICU in LRI from surgical specialty. i.e. children "admitted after surgery" and "recovery from surgery"	03/05/12	Phil McShane	Planning future strategy within unit
16/04/12	Anne Brown,	Secretary, Royal Belfast Hospital.	CARDIAC PATIENTS IN 2010/2011  Number of cardiac patients admitted, their length of stay and if possible, what day of the week did they were admitted.	17/04/12	Roger Parslow	Data needed for a cardiac review
13/04/12	Carla Hayes	PICU Audit Clerk, Queens Medical Centre, Nottingham	BRONCHIOLITIS  To find out if there are any differences in severity of illness that can be predicted by the microbiological organism isolated in the NPA and to assess severity of illness – PRISM score, length of stay, inotropes etc	02/05/12	Lee Norman	We will use data to predict outcomes in future bronchiolitics
09/03/12	Kesava Ananth Ramakrishnan	Consultant, PICU, Southampton General Hospital	The number of children admitted to PICU in UK with a diagnosis of septic shock, mortality, timing of death (<24 hours, 24-48 hours 48-72 hours, >72 hours), length of PICU and hospital stay, length of mechanical ventilation.  I am aware that we have not been collecting the cause of mortality. I am also aware PICANET was trying to link with death registry. If this has already happened I would like to know what proportion had nosocomial infection causing or contributing to their death	Not yet provided		I plan to publish the results and consider the feasibility of clinical trials aimed at reducing nosocomial infections using immunomodulatory therapy
28/02/12	Georgina Scarff, Shervin Poladi, Afsha Ahmed, Samin Amin	2 <sup>nd</sup> year Medical Students, University of Leeds	ADMISSION RATES AND SOCIAL DEPRIVATION  Identifying possible factors that might affect regional admission rates between Paediatric Intensive Care Units (PICUs) in the UK and the role of social deprivation  So we would like to request the England and Wales data from 2006 to 2010. The variable fields we would like are: Date of admission, date of discharge, age in months, sex, diagnostic group - ventilation status (invasive, non-invasive, both, none), patient IMD, PCT average IMD for the patient, mortality rate (discharge status: alive/dead), the paediatric index of mortality.	, ,	Phil McShane	This is being used for a university teaching module only and is not being published.
13/02/12	Catherine Whibley	Paediatric Epidemiology Group, Uni of Leeds	GASTROSCHISIS and EXOMPHALOS  Number of cases of gastroschisis and Exomphalos in period of 01/03/07 to 30/06/11. Diagnosis codes: J3200, J3210, J3220, J3230, J32y0, XE2eb, PG71., Xa9ZS, Xa9ZT. Our data shows low numbers of these diagnosis. We need to determine how many cases are missing from our data.	13/02/12	Roger Parslow	This is for information purposes only to determine our levels of ascertainment for the specified anomalies.

02/02/12	Simon Nadal	Consultant in PICU, St Mary's Hospital, London	MENINGGOCOCCAL DISEASE  Can I have data for the number of patients with meningococcal disease admitted for the last year?	23/02/11	Phil McShane	
09/02/12	Peter Barry	Consultant Paediatric Intensivist, University Hospitals of Leicester,	TRANSFERS OUT OF REGION  How many children with East Midland postcodes were admitted to PICU other than University Hospitals of Leicester (Glenfield or LRI) or Nottingham University Hospitals.  For each year 2006 to present: Split if possible by primary diagnosis, Split if possible by dependency level, Split if possible by % ROM (ie >30%; 20-30% etc), Overall ROM for this group as a whole	09/02/11	Phil McShane	To identify variations in our acceptance of patients from our SHA, and identify any trends
12/01/12	Claire Magner	Clinical Audit and Research Nurse, Our Lady's Children's Hospital	PIM SCORES Follow on request from 16/08/11	12/01/11	Phil McShane	
12/01/12	Andrew Nyman	PICU Fellow, Evelina Children's Hospital, St Thomas Hospital, London,	PICU ASTHMA  Follow up data from request 11/05/10	12/01/11	Phil McShane	Results to be published, 1st results published in PICANet annual report
12/01/12	Nick Kirk	Service Manager, Paediatric Surgery and Critical Care, Leicester Royal Infirmary	BUSINESS PLANNING  I would like to be able to quantify the percentage of patients treated at LRI children's intensive care unit, that are L1, L2 and L3 care	12/01/11	Phil McShane	Use in Business Planning for 2012/13 to inform decisions around finance, and staff/environment planning
07/12/11	Semeer Kallaroth	PICU SpR, Glenfield Hospital	TRENT PHOSPHATE AUDIT,  To look at phosphate correction needed for patients needed CRRT excluding PD. To find Non ECMO patients who received CVVH/DF.	07/12/11	Phil McShane	Present results of this retrospective audit internally
09/11/11	Carla Hayes	PICU Audit Clerk, Nottingham Universities Hospital	HAEMOFILTRATION AND HAEMODIALYSIS  Can I please have a report on the last 20 patients by day of admission, who have received haemofiltration and Haemodialysis?	09/11/11	Lee Norman	Will be used for Ward Review
05/11/11	Madhuri Dasarathi	ST7, PICU, Great North Children's Hospital,	BONE MARROW TRANSPLANT  List of paediatric cases known to have undergone BMT and admitted to PICU within a year post transplantation. BMT cases with neurological complications within 6 months of BMT admitted to PICU	10/11/11	Phil McShane	Plan to Analyse and present data at meetings and aim to publish the findings.
09/11/11	Ramesh Kumar	Evelina Children's Hospital, Westminster Bridge Road, London,	HFOV  Evaluate the use of High frequency Oscillation since 2005 (is use changing with time) and its relationship to	10/11/11	Phil McShane	Local audit and subsequent publication if national data useful. Need

10/11/10	Emer Aldridge	SE1 7EH  CLINICAL Nurse	ECMO use as end point  Total number of HFO cases since 2005 as % of MV with outcome as Death, Alive, ECMO. Detail needed is age, weight, sex, PIM2, diagnosis, comorbid diagnosis, (PIM2 components), LOV, LOS, Prematurity. Also use of surfactant, Nitric oxide, CVVH. Individual anonymised data but with tag if PICU is ECMO centre or not. Include local identifier for our PICU (Evelina). Is it possible to tag on PICU unit size (ie <700 admisisons per year or not) to see if volume effect)  PCCMDS	10/11/10	Phil	to evaluate if use of HFO influenced by availability of in house ECMO.  Will be presented in our
		Manager 2, Children's university hospital, Temple street Dublin	Can I request the PCCMDS data for 2010 and the HRG information for 2010		McShane	report
19/10/11	Claire Magner	Clinical Audit and Research Nurse, Our Lady's Childrens Hospital. Crumlin	The number of PICU patients who received HFOV in PICANet hospitals 2010 and to end of September 2011. Is it possible to subdivide this number into neonates and paediatrics? Also, the number of these PICU patients who received HFOV as a percentage of the total admissions in PICANet hospitals in 2010 and to the end of September 2011.  We are aiming to develop a MDT protocol on the management of HFOV patients in PICU. We are trying to gain background knowledge on this patient group to see how critically ill they were, and also see how well this patient group has done after HFOV intervention.	31/10/11	Phil McShane	We will analyse the data and use it as a basis for our protocol/guideline of the management of HFOV patients in our unit.
09/09/11	Stephen Playfor	Consultant Paediatric Intensivist, Clinical Manager for PICU, Royal Manchester Children's Hospital	H1N1 Is it possible to retrieve data regarding our unit's experience of H1N1 in the 2009-10 pandemic? Number of cases, length of stay, mortality etc.	30/09/11	Phil McShane	Upcoming presentation to regional Critical Care Network
08/09/11	Roz Jones	North West Specialist Commissioning Manager, North West Specialised Commissioning Team Warrington,	CAPACITY PLANNING IN NORTH WEST  For capacity planning purposes to identify if the programme of investment locally has reduced the number of inappropriate North West out of area referrals. To identify non north west patient inflows into the North West 2009/10 and 2010/11	31/10/11	Phil McShane	
12/10/11	Dr John Pappachan	Consultant Paediatric Intensivist, Southampton general Hospital.	REMOTE ISCHEMIC PRECONDITIONING  LOS (hospital and PICU), Age, Days of ventilation [51 Invasive ventilation via endotracheal tube,52 Invasive ventilation via tracheostomy tube,53 Non-invasive ventilatory support,55 Nasopharyngeal airway, 56 Advanced ventilatory support (Jet or Oscillatory ventilation) and , 06 Continuous infusion of inotrope, pulmonary vasodilator or prostaglandin FOR	20/09/11	Phil McShane	

20/09/11	Dr Dhushy Surendra Kumar	Medical Director Warwickshire and Northampton shire Air Ambulance	Planned following surgery groups: Hypoplastic left heart syndrome (P67) Ventricular septal defect (P54) Tetralogy of Fallot (P52) Discordant ventriculoarterial connection (P51) Atrioventricular septal defect & common atriovent junction (X77wc) Hypoplastic left heart syndrome (P67) BT shunt Cavo Pulmonary connection Fontan/TCPC  OPERATIONAL PLANNING To assess the seasonal need for paediatric transfers on a month by month basis. Operational planning only. Distance from home to receiving hospital (as surrogate for transferring hospital) Numbers of patients transferred by month Last full 12 months on record for England and Wales	23/09/11	Lee Norman	Local operational planning
14/09/11	Dr Ruth Trinick	Clinical Research Fellow	INTERVENTIONAL RCT  To gather background information for an HTA funding application for a future interventional RCT for children	pending		
13/10/11	Dr. Dotor Dorne	Institute of Child Health, Alder Hey Children's Hospital NHS Trust. Liverpool	with severe neurodisability and chronic respiratory difficulties. The current evidence base for the majority of our medical respiratory interventions in this group of patients is extremely limited.  We would like information firstly, about the burden of the problem in terms of national PICU admissions/outcomes and secondly, if possible, some further detailed information about the background medical history of the children being admitted and microbiological/viral growth on respiratory specimens during admission. We request information about: -number of PICU admissions/year of children with neurodisability being admitted with respiratory failure secondary to a suspected lower respiratory tract infection or aspirationthe above expressed in bed days as % of total acute PICU bed days -neurological diagnoses of the above group, if available -breakdown of patient numbers according to age -proportion on home oxygen, nocturnal non-invasive ventilation or long term invasive ventilation -mean and median length of admission (bed occupancy) -mean and median number of ventilated days -mortality (total number and percentage of admissions) -microbiological/viral growth on respiratory secretions (number of samples taken and positive/negative growth)		Dhil	
12/10/11	Dr Peter Barry	Consultant Paediatric Intensivist Department of Child Health,	R-SPRT plots, EWMA charts  and underlying data for all admissions to Glenfield hospital for the period 1/1/2010 to the present day (or as near as possible);  Adjusted and unadjusted mortality, R-SPRT plots, EWMA charts and underlying data for admissions to	12/10/11	Phil McShane	
		University Hospitals of Leicester	Glenfield hospital where the primary diagnostic group is cardiac for the period 1/1/2010 to the present day (or as near as possible);  Adjusted and unadjusted mortality, R-SPRT plots, EWMA charts and underlying data for admissions to Glenfield hospital where the primary diagnostic group is cardiac and the admission type is planned or			

			unplanned following surgery for the period 1/1/2010 to the present day (or as near as possible).		
			To respond to issues raised by the recent review of cardiac services, and other reports on cardiac services performance.		
29/09/11	Dr Christopher Flannagan	Paediatric Intensive Care Unit, Royal Belfast Hospital for Sick Children	WEIGHT  To determine if APLS formula for estimating weight in children are appropriate for use in PICU patients.  Anonymised data on weight and age (in years and months) of children admitted to PICU. For children under 1 year information on gestation age would also be required. To cover for variations with location admitting unit would also be required.	20/10/11	Phil McShane
27/09/11	Dr David Inwald	Senior Lecturer PICU, Imperial College London	FEASIBILITY OF A TRIAL OF FLUIDS IN SEPTIC SHOCK  All 2010 admissions – no patient or unit identifiers  Diagnoses/codes, Care area admitted from, PIM2 score (%), PICU mortality (Y/N), ventilation (Y/N), length of ventilation, length of PICU stay	27/09/11	Phil McShane
16/09/11	Jessica Veitch	Medical Student, PICU, Royal Manchester Childrens Hospital	TOGD Assess the PICU course of neurologically impaired children following total oesophago-gastric dissociation (TOGD) – compare with other elective PICU post-surgical admissions.  Need data on: ELECTIVE SURGICAL ADMISSIONS TO PICU Length of stay % requiring ventilation, ventilator days, % requiring inotropes	14/09/11	Phil McShane
17/08/11	Peter Wilson	Consultant Paediatric intensivist, Clinical Director Paediatrics, Southampton General Hospital	CYSTIC FIBROSIS  Understand the number and reasons for cystic fibrosis patients being admitted to PICU. All cystic fibrosis patients admitted to Southampton PICU between 2002 and 2011 with the following details: Ventilatory status, Primary Diagnosis, Secondary Diagnosis, Age, Outcome, Length of stay, PIM 2 score	25/08/11	Phil McShane
17/08/11	Peter Wilson	Consultant Paediatric intensivist, Clinical Director Paediatrics, Southampton General Hospital	CYSTIC FIBROSIS  Understand the number and reasons for cystic fibrosis patients being admitted to PICU. All cystic fibrosis patients admitted to PICU nationally between 2002 and 2011 with the following details: Ventilatory status, Primary Diagnosis, Secondary Diagnosis, Age, Outcome, Length of stay, PIM 2 score Unit admitted to PICU	25/08/11	Phil McShane
16/08/11	Claire Magner	Clinical Audit and Research Nurse, Our Lady's Children's Hospital	PIM SCORES Group 1: Admissions to our PICU from March 01 2009- Feb 28 2010 and Group 2: Admissions to our PICU from Aug 01 2010- July 31 2011. I wish to compare these two groups as in June 2010 we introduced a change in practice and would like to do some before and after analysis	16/08/11	Phil McShane
08/08/11	Simon Nadal	Consultant in PICU, St Mary's Hospital, London	IMMUNISATIONS AND INCREASED RISK OF DEATH IN GIRLS  To look at the outcome of girls vs boys due to infection in children < 1 year admitted to PICU. The hypothesis is that girls who have completed their primary course of immunisations are at increased risk of death for reasons that are unclear.  Cause of admission (ie whether infection-related), vs age (< 1 year) by month, and gender?  Length of stay, admission date, ventilation status and outcome. Geographical location	17/08/11	Phil McShane

17/08/11	Peter Wilson	Consultant Paediatric	HRG GROUPINGS – SOUTHAMPTON	17/08/11	Phil McShane	
		intensivist, Clinical Director Paediatrics, Southampton General Hospital	Patients admitted per financial year (1 <sup>st</sup> April to 31 <sup>st</sup> March) For each patient I would require the following informationDate admission, Age, Sex, Diagnosis, Diagnostic category, Length of stay, HRG group, Postcode, Elective or emergency admission Past 3 years (2008/9, 2009/10, 201/11)		Weshalic	
11/08/11	Phil Hyde	Consultant Paediatric Intensivist, PICU, Southampton General Hospital	Three specific groups of information are required:  1) The hospital location that paediatric intensive care is provided for severely injured children with home postcodes within the south coast specialised commissioning cluster. To include the first 4 characters of the postcode of the child's home, the diagnosis for each child, diagnostic category, date and time of admission, duration of admission, whether the child was retrieved from another hospital and by whom. Severely injured children would include any child admitted to an intensive care unit with organ dysfunction secondary to trauma. This is also known as major trauma.  2) The hospital location that paediatric intensive care is provided for children with cardiac disease (acquired and congenital) with home postcodes within the south coast specialised commissioning cluster. To include the first 4 characters of the postcode of the child's home, the diagnosis for each child, diagnostic category, date and time of admission, duration of admission, whether the child was retrieved from another hospital and by whom.  3) The hospital location that paediatric intensive care is provided for all children with home postcodes within the south coast specialised commissioning cluster. To include the first 4 characters of the postcode of the child's home, the diagnosis for each child, diagnostic category, date and time of admission, duration of admission, whether the child was retrieved from another hospital and by whom.	Pending decision about permissio ns		
11/08/11	Phil Hyde	Consultant Paediatric Intensivist, PICU, Southampton General Hospital	SOUTH CENTRAL STRATEGIC HEALTH AUTHORITY PROVISION  Which hospitals outside of Southampton and Oxford provided intensive care to children with South Central strategic health authority home postcodes. Past 3 years (2008, 2009 and 2010)	Pending decision about permissions		
02/08/11	Clare van Miert	NIHR Clinical Doctoral Research Fellow, Alder Hey Children's NHS Foundation Trust	INFANTS WITH BRONCHIOLITIS  I would like data on the number of infants ≤ 12 months of age with a clinical diagnosis of bronchiolitis (± RSV, adenovirus, human meta pneumo virus) admitted to PICU.  I would like data to be stratified - infants who are otherwise healthy and infants with an existing comorbidity.  I would like data on the age, gender and ethnicity of the infants who are admitted picu  I would like data on presenting features / reason for admission to PICU (e.g apnoeas)  I would also like outcome data if possible (ie mortality and morbidity data)	Request withdraw n due to informati on being available in a recently published paper		
05/08/11	Akash Deep	Clinical Lead, PICU Kings College Hospital, London	MORTALITY COMPARISON WITH CHKS  Corelate PICANet mortality data with Trust CHKS mortality data.  Total admissions and Mortality  SMR ( PIM2r adjusted)  RSPRT -'Exponentially weighted moving average' plots (PIM2r adjusted). Currently the Risk Adjusted  Mortality Index (RAMI) provided by CHKS shows us to be an outlier with RAMI > 140 Whilst SMR provided by  PICANet shows us to be having an acceptable SMR. We feel that CHKS does not apply to our patient	24/08/11 3 monthly		

			population and should not be used for mortality calculation in child Health. We propose to use SMR provided by PICANet			
01/08/11	Martin Hart	Head of Information,West Midlands Specialised Commissioning Group	region For each year we wish to see a cross-tabulation of PIM2 score by provider by month (excluding	Withdraw n due to availabilit y of permissio ns		
22/07/11	Phil Wilson	Lead Nurse, WM Paediatric Retrieval Service, Birmingham Children's Hospital NHS Foundation Trust	WMPRS ON REFERRAL PATTERNS IN WEST MIDLANDS  Years 2005,2006,2007,2008,2009,2010  No . Patients from West Midland SHA admitted to PICUs other than BCH and UHNS.Median an Average LOS for these WM patients admitted to these other units.  This is for an Internal Service Review	30/07/11		Will Consider publishing depending on findings
22/07/11	Peter Davis	Consultant Paediatric Intensivist, Bristol Royal Hospital for Children.	BPSU CHYLOTHORAX  This study is supported and has been running via the British Paediatric Surveillance Unit (BPSU) at the Royal College of Paediatrics & Child Health (RCPCH) since June 2010.  The purpose of the study is to determine the frequency with which chylothorax occurs & within which groups of infants and children aged between 24 weeks gestation & 16 years in the UK and Ireland. Additionally we aim to establish the characteristics of children with chylothorax, the clinical management and approaches currently used to treat this condition, the length of symptoms & the treatment options considered & used for individual children, the outcome for these children following the treatment.  Although the BPSU surveillance structure is a comprehensive data collection system, to increase ascertainment and identify any cases not identified via the BPSU, other data collection sources are being accessed. PICANet is one of these additional sources and will assist in promoting the confirmation of true cases and allow for the estimation of completeness of ascertainment.	permissio ns		
06/07/11	David Milford	Consultant, Birmingham Children's Hospital,	RENAL REPLACEMENT THERAPY  The number of children undergoing renal replacement therapy over 12 months The number of children admitted to PICUs in the same 12 months	13/06/11		Data forwarded to NICE to inform NICE AKI guidance
01/07/11	Matthew Norridge	Lecturer Practioner, Guy's & St Thomas' NHS Foundation Trust/King's College London	NURSES  Analysis of how GSTT PICU measures up to recommendations in Bridge to the Future. Number of nurses working in PICU nationally with Child Qualification - Number of nurses working in PICU nationally with ICU qualification	pending	Caroline Lamming	

21/06/11	Dr Claire Westrope	Consultant PICU, Universities Hospital of Leicester	USE OF CRRT  To collect demographic data on use of CRRT in PICU over the last 5 yrs in order to create a prospective RRT dataset as part of the PCCMCDS. Please can you add the PIM data for the patients on the dataset you have already provided me (attached). Want to show whether the patients who received CRRT and died had higher index of mortality on admission to PICU, or of CRRT is a predictor of mortality alone	13/06/11	Phil McShane	
23/06/11	Judith Budd	Co-ordinator, East Midlands & South Yorkshire Congenital Anomalies Register	CONGENITAL ANOMOLIES  The aim is to register every fetus/baby/child up to the age of 16 diagnosed with a congenital anomaly to a mother normally resident within the East Midlands and South Yorkshire region. Every child with a date of birth after January 1 <sup>st</sup> 1997, admitted to any unit since July 1 <sup>st</sup> 2008, coded with a congenital anomaly (as defined by an ICD-10 'Q' code and/or the word 'syndrome' in the text field)	13/06/11	Phil McShane	
10/06/11	Peter Broughton	Senior Information Design Consultant, The NHS Information Centre.	Investigation into the distribution of Paediatric Critical Care HRGs within PICANet contributor organizations. We wish to produce graphs and summaries to present to the HRG4 Paediatric Critical Care Expert Working Group.  Based on previous experience, the PICANet data appears to be of very high quality.  The excellent coverage of data in PICANet makes it the most useful data source for HRGs analysis. The latest SUS dashboard indicates that only 60% of eligible (based on KH03 returns) organisations are submitting data to SUS. Update of previous request on 9/6/09	14/06/11	Lee Norman	
08/06/11	Peter Barry	Consultant Paediatric Intensivist, University Hospitals of Leicester	CARDIAC PICU SERVICE PLANNING  Number of children admitted each year to PICU from the following post codes: PO30; PO31; PO32; PO33; PO34; PO35; PO36: PO37; PO38; PO40; PO41.  Total admissions to any UK PICU, and Admissions where the primary diagnostic group is cardiac.  No unit specific information is required, just the total number. Each calendar year 2008 to 2010	13/06/11	Phil McShane	Not a research study – data used to support PICU service planning and delivery.



#### www.picanet.org.uk picanet@leeds.ac.uk

#### **University of Leeds**

Roger Parslow Phil McShane Thomas Fleming Lee Norman Sarah Skinner

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