



National Paediatric Critical Care Audit

UPCARE: Programme name - please do not change this field.*	National Paediatric Critical Care Audit
Workstream name (if applicable) - please do not change this field.*	Not applicable
Contract status	Ongoing
Audit or non-audit	Audit
HQIP commissioned*	Yes
HQIP AD	JC
HQIP PM	NP
1.0 Included in current NHS Quality Accounts*	Yes
1.1a Geographical coverage - HQIP agreement*	England
1.1b Geographical coverage - External agreement*	Wales; Scotland; Northern Ireland; Republic of Ireland
1.2a Topic - please select which ONE of the following best describes the topic area for the programme or workstream. If more than one apply, please select 'Other' and add comment to the next question.*	Other (please describe in next question)
1.2b If you selected 'Other' above, please provide details.*	Child & Adolescent; Paediatric Critical Care
1.3a Healthcare setting*	NHS secondary or tertiary care; Independent sector healthcare (non-NHS); NHS-funded care delivered by independent provider; Paediatric
1.4 Inclusion and exclusion criteria*	Data is submitted into the secure web-based application database called PICANet Web by Paediatric Intensive Care Units and Paediatric Intensive Care Transport Services for all children and young people accepted for referral, transported or admitted to designated paediatric intensive care units (PICUs) providing paediatric level 3 critical care (as defined by the Royal College of Paediatrics and Child Health).

1.5 Methods of data submission*	Bespoke data submission by healthcare provider; Extraction from existing data source(s)
1.6a 2023/24 data submission closes - please indicate date, series of dates or frequency.*	Continuous data collection (no closure) 01 Apr 2023 – 31 Mar 2024.
1.6b 2024/25 data submission closes - please indicate date, series of dates or frequency.*	Continuous data collection (no closure) 01 Apr 2024 – 31 Mar 2025.
1.7 Data flow diagram	The PICANet data flows for England, Wales and Scotland are available on the Policies page of the PICANet website: https://www.picanet.org.uk/wp-content/uploads/sites/25/2023/03/PICANet-Data-Flow_v9.0_England_Wales_Scotland.pdf
1.8 Data quality & analysis plan	<p>The PICANet database has inbuilt data validations which reduce the burden of data checking for organisations, e.g. immediate highlighting of missing / inconsistent data.</p> <p>The PICANet clinical validation team work with organisations to answer validation queries via 4-6 weekly validation reports for organisations flagging data quality issues.</p> <p>Plus the following are in place:</p> <ul style="list-style-type: none"> • Data quality checks prior to analysis to identify duplicate records and inconsistencies. • Validation of addresses and postcodes. • Annual review of low matches on patient ID assignment. • NHS number validation using the Modulus 11 algorithm.
1.9 Outlier policy	The <i>PICANet Outlier Policy</i> is published on the PICANet website: https://www.picanet.org.uk/wp-content/uploads/sites/25/2023/07/PICANet_Outlier_Policy_v3.0_2023-07-10.pdf
2.1 Outcome measures	<p>The audit provides comparative performance data for Paediatric Intensive Care Units (PICUs) and Specialist Paediatric Critical Care Transport Services. Each hospital has its performance measured against: - Other units / transports teams across the UK and Republic of Ireland - Paediatric Critical Care Standards - NHS England Specialised Services Quality Dashboard targets Some summary data is presented at a National level.</p> <p>The current outcome metrics are:</p> <ul style="list-style-type: none"> • In-PICU risk adjusted mortality <p>Evidence base: The risk adjustment model used to determine risk-adjusted mortality (Paediatric Index of Mortality version 3) has been externally validated (DOI: 10.1097/PCC.0b013e31829760cf).</p>

Measures quality indicator PIC01 from the NHS England *Paediatric Intensive care (PICU) Quality Dashboard 2021/2022*.

- Emergency re-admissions within 48 hours

Evidence base: Clinical consensus within PICANet Clinical Advisory Group and Steering Group and designed to measure quality indicator PIC04 from the NHS England *Paediatric Intensive care (PICU) Quality Dashboard 2021/2022*.

2.2 Process measures

The current process metric is:

- Retrieval mobilisation times

Evidence base: Clinical consensus within PICANet Clinical Advisory Group and Steering Group and designed to measure quality indicator PIC14i from the NHS England *Paediatric Intensive care (PICU) Quality Dashboard 2021/2022* which recommends that, for emergency retrievals, the team departs the transport base within 30 minutes from the time the referral is accepted for retrieval.

- Unplanned extubations in PICU

Evidence base: Clinical consensus within PICANet Clinical Advisory Group and Steering Group and designed to measure quality indicator PIC08a from the NHS England *Paediatric Intensive care (PICU) Quality Dashboard 2021/2022*.

2.3 Organisational measures

Case ascertainment and timeliness of data submission.

2.4 Patient reported outcome measures

Patient reported outcome measures are not included in the audit.

2.5 Patient reported experience measures

Patient reported experience measures are not included in the audit.

2.6a Do measures align with any of the following sources of evidence (select all that apply)

Professional society; Other (please describe in next question)

2.6b Evidence supplemental information

NHS England Specialised Services Quality Dashboards - Paediatric Intensive Care (PICU) Quality Dashboard

3.1 Results visualisation

Interactive online portal (run charts available); Annual report; Static data files

3.2a Levels of reporting*

National; Trust or health board; Hospital or specialist unit; Integrated care system (ICS); NHS region or other geographic area; Team/ ward

3.3 Timeliness of results feedback

Within 24 hours; Within 3 months; Within 1 month; Within 1 year

3.4 Link to dynamic reporting*	https://www.picanet.org.uk/data-collection/picanet-data-dashboard/
2023/24 Dataset covers the period FROM/TO (within financial year 01/04 to 31/03)*	04/01/2023 - 03/31/2024
2024/25 Dataset covers the period FROM/TO (within financial year 01/04 to 31/03)*	04/01/2024 - 03/31/2025
Dataset #1 name	Core dataset (admission)
Dataset #1 type*	Clinical audit
Dataset #1 population coverage*	All eligible patients
Dataset #1 items collected (n)	133
Dataset #1 items from existing national datasets (n)	0
Dataset #1 use of existing national datasets	Paediatric critical care minimum dataset (PCCMDS)
Dataset #1 specification	The PICANet Admission Dataset Definitions Manual is available on the PICANet website: https://www.picanet.org.uk/wp-content/uploads/sites/25/2023/12/PICANet-Web-Admission-Dataset-Manual-v5.8-2023-12.pdf
Dataset #2 name	Core dataset (referral)
Dataset #2 type*	Clinical audit
Dataset #2 population coverage*	All eligible patients
Dataset #2 items collected (n)	17
Dataset #2 items from existing national datasets (n)	0
Dataset #2 use of existing national datasets	N/A

Dataset #2 specification	The PICANet Referral & Transport Dataset Definitions Manual is available on the PICANet website: https://www.picanet.org.uk/wp-content/uploads/sites/25/2020/11/PICANet-Web-Referral-Transport-Dataset-Manual-v2.2-FINAL_Nov-2020.pdf
Dataset #3 name	Core dataset (transport)
Dataset #3 type*	Clinical audit
Dataset #3 population coverage*	All eligible patients
Dataset #3 items collected (n)	184
Dataset #3 items from existing national datasets (n)	0
Dataset #3 use of existing national datasets	N/A
Dataset #3 specification	The PICANet Referral & Transport Dataset Definitions Manual is available on the PICANet website: https://www.picanet.org.uk/wp-content/uploads/sites/25/2020/11/PICANet-Web-Referral-Transport-Dataset-Manual-v2.2-FINAL_Nov-2020.pdf
Dataset #4 name	Customised data collections (multiple custom collections accounted for, some collected on an opt in basis)
Dataset #4 type*	Clinical audit
Dataset #4 population coverage*	All eligible patients
Dataset #4 items collected (n)	200
Dataset #4 items from existing national datasets (n)	0
Dataset #4 use of existing national datasets	Paediatric critical care minimum dataset (PCCMDS)
Dataset #4 specification	<p>Customised data collections collect additional data beyond the PICANet core dataset for the purposes of audit. Current customised collections are listed here with links to their data definitions manuals which are available on the PICANet website:</p> <ul style="list-style-type: none"> • COVID-19 customised data collection: https://www.picanet.org.uk/wp-content/uploads/sites/25/2022/02/PICANet-COVID-19-II-Dataset-

[Definitions-Manual-v2.0_11Feb2022.pdf](#)

The following custom audits were collected at a PICU level opt in basis for admissions up to 30 April 2022 :

- Renal Dataset: <https://www.picanet.org.uk/wp-content/uploads/sites/25/2018/05/PICANet-Renal-Dataset-Definitions-v2.0.pdf>
- Renal Daily Interventions: <https://www.picanet.org.uk/wp-content/uploads/sites/25/2018/06/PICANET-Renal-Daily-Data-Definitions-Manual-v2.0.pdf>

<p>When was your Healthcare Improvement Plan (sometimes referred to as a Quality Improvement Plan) last reviewed? Please upload under 'Files' below using naming convention ('yyyymmdd_PROGRAMME-Workstream-HIplan').</p>	<p>09/29/2022</p>
<p>National report publication date (within calendar year 01/01 - 31/12/2023)*</p>	<p>State of the Nation Report 2023, describing paediatric critical care activity occurring within PICUs in the UK and ROI during 2020 – 2022, published 14 Dec 2023.</p>
<p>Published/planned national report publication date (within calendar year 01/01 - 31/12/2024)*</p>	<p>State of the Nation Report 2024, describing paediatric critical care activity occurring within PICUs in the UK and ROI during 2021 – 2023, planned publication date 12 Dec 2024.</p>
<p>Planned national report publication date (within calendar year 01/01 - 31/12/2025)*</p>	<p>State of the Nation Report 2025, describing paediatric critical care activity occurring within PICUs in the UK and ROI during 2022 – 2024, planned publication date Oct -Nov 2025.</p>
<p>Please add the most recent date that you have reviewed and updated an online version of UPCARE Workstream section(s) on your project's website (click into the response to see pop-up guidance).</p>	<p>03/11/2024</p>
<p>Please add a hyperlink to UPCARE Workstream section(s) on your website (click into the response to see pop-up guidance).*</p>	<p>https://www.picanet.org.uk/</p>

- Files** 20230821_Metrics_NPCCA.xlsx
- 20220929_NPCCA PICANet-Workstream-HIplan.pdf