



National Pediatric Readiness Project
Ensuring Emergency Care for All Children



EMSC
Emergency Medical Services for Children

The NPRP is funded in part by the HRSA EMSC Program

North Carolina 2021 National Pediatric Readiness State Summary

2021 Pediatric Readiness Response Rate

Numerator: **120**
Denominator: **120**
Response Rate: **100%**

2013-14 Pediatric Readiness Response Rate

Numerator: **86**
Denominator: **114**
Response Rate: **75%**

2021 Average State Score

70

State AVERAGE Hospital Score out of 100
(n=120)

2021 Median State Score

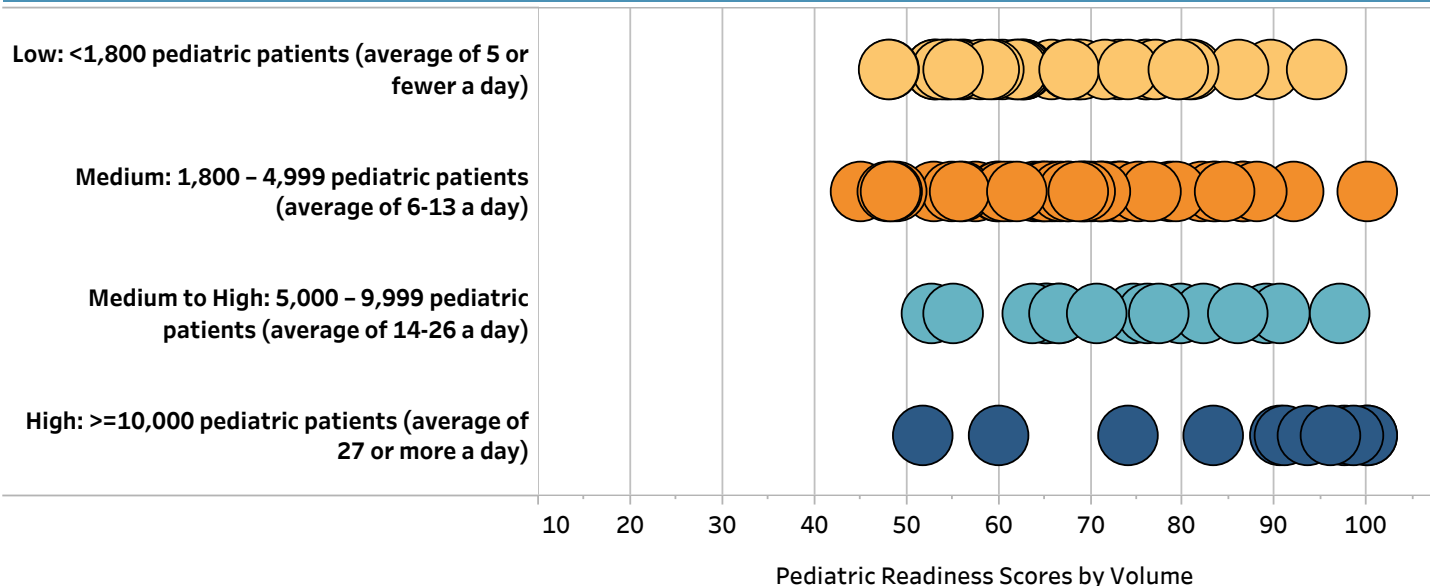
69

State MEDIAN Hospital Score out of 100
(n=120)

The overall 2021 National Pediatric Readiness scores (based on the 2018 Joint Policy Guidelines) are not directly comparable with the 2013-14 state scores (based on the 2009 Joint Policy Guidelines). These were two unique assessments based on two different published sets of guidelines. Questions were added/removed and point values changed based on the new guidelines. Although the overall scores are not comparable, several individual questions remained the same and these components can be compared over time.

Filter chart below by urbanicity:
All

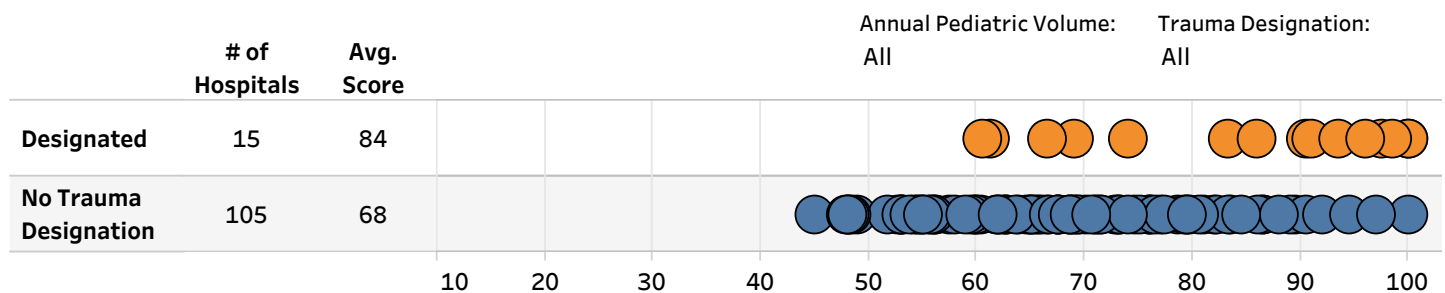
2021 Distribution of Scores by Volume



Breakdown of Scores by Volume Type:

Annual Pediatric Volume	# of Hospitals	Avg. Score	Median Score	Min. Score	Max. Score
Low: <1,800 pediatric patients (average of 5 or fewer a day)	42	65	63	48	95
Medium: 1,800 – 4,999 pediatric patients (average of 6-13 a day)	49	68	69	45	100
Medium to High: 5,000 – 9,999 pediatric patients (average of 14-26 a day)	17	74	75	53	97
High: >=10,000 pediatric patients (average of 27 or more a day)	12	86	92	52	100
Grand Total	120	70	69	45	100

Breakdown of Scores by Trauma Designation



Average Scores By Section

Section	Missing Records	Avg Section Score	Section Score
Guidelines for Administration and Coordination of the ED for the Care of Children (19 pts)	0	5.2	19
Physicians, Nurses, and Other Health Care Providers Who Staff the ED (10 pts)	0	5.9	10
Guidelines QI/PI in the ED (7 pts)	0	2.5	7
Guidelines for Improving Pediatric Patient Safety in the ED (14 pts)	0	13.0	14
Guidelines for Policies, Procedures, and Protocols for the ED (17 pts)	0	11.5	17
Guidelines for Equipment, Supplies, and Medications for the Care of Pediatric Patients in the ED (33 pts)	0	31.9	33

NOTE: If there are missing values from any of the assessments (specifically from PDF assessments), they are shown in the "Missing Records" column. This indicates records that were missing scored questions and could not be included in the calculation of the average section score.

Analysis of Scored Questions in the Assessment by Section

The following analysis is grouped by the six main sections of the assessment. Each section has an average score shown on page 2. Under the section headings are the lists for each of the scored questions in that section along with a comparison between the previous 2013-14 assessment (if applicable) and the most recent national assessment.

If a question has been added since the original 2013-14 national assessment **you will see a blank in the "2013-14 Percent that Had Item,"** indicating that question was not available during the previous assessment.



The KPI (Key Performance Indicator) is shown in the legend on your right in colors and shapes. These symbols are not punitive, rather an indicator of performance to **help you quickly identify areas for quality improvement** based on the 2021 results. Collaborate with stakeholders in your state/territory to identify areas to work on first.

The importance of having each of these items can be found in the "Importance Statements" document: <https://www.pedsready.org/docs/NPRP%20Gap%20Report%20Importance%20Statements.pdf>





KPI Legend:

-  100% of EDs Have Item
-  80 to 99% Have Item
-  60 to 79% Have Item
-  30 to 59% Have Item
-  29% or Less Have Item






Guidelines for Administration and Coordination of the ED for the Care of Children (19 points)

	KPI	2021 Number of EDs that Have Item	2021 Percent that Have Item	2013-14 Percent that Had Item	Difference Between Assessments
Physician Coordinator		34/120 (Missing = 0)	28%	35%	-7% ▼
Nurse Coordinator		32/120 (Missing = 0)	27%	38%	-12% ▼








Physicians, Nurses, and Other Health Care Providers Who Staff the ED (10 points)

Physician Competency Evaluations		86/120 (Missing = 0)	72%	53%	18% ▲
Physician Maintenance of Board Certification		67/120 (Missing = 0)	56%		
Nurse Competency Evaluations		110/120 (Missing = 0)	92%	78%	14% ▲
Nurse Maintenance of Specialty Certification		19/120 (Missing = 0)	16%		





Guidelines QI/PI in the ED (7 points)

	KPI	2021 Number of EDs that Have Item	2021 Percent that Have Item	2013-14 Percent that Had Item	Difference Between Assessments
Patient care-review process (chart review)		49/120 (Missing = 0)	41%	40%	1% ▲
Identification of quality indicators for children		35/120 (Missing = 0)	29%	24%	5% ▲
Collection and analysis of pediatric emergency care data		41/120 (Missing = 0)	34%	31%	3% ▲
Development of a plan for improvement in pediatric emergency care		44/120 (Missing = 0)	37%	33%	4% ▲
Re-evaluation of performance using outcomes-based measures		41/120 (Missing = 0)	34%	33%	2% ▲









Guidelines for Improving Pediatric Patient Safety in the ED (14 points)

Children seen in the ED weighed in kilograms (without conversion from pounds)		98/120 (Missing = 0)	82%	77%	5% ▲
Children's weights recorded in the ED medical record in kilograms only		94/120 (Missing = 0)	78%		
Temperature, heart rate, and respiratory rate recorded		120/120 (Missing = 0)	100%	98%	2% ▲
Blood pressure monitoring available based on severity of illness		119/120 (Missing = 0)	99%	100%	-1% ▼
Pulse oximetry monitoring available based on severity of illness		120/120 (Missing = 0)	100%	100%	0% ▲
End tidal CO2 monitoring available based on severity of illness		104/120 (Missing = 0)	87%		
Process in place for notification (manual or automated) of physicians when abnormal vital signs are found		118/120 (Missing = 0)	98%	80%	18% ▲













Guidelines for Improving Pediatric Patient Safety in the ED (14 points)

	KPI	2021 Number of EDs that Have Item	2021 Percent that Have Item	2013-14 Percent that Had Item	Difference Between Assessments
Process in place for the use of pre-calculated drug dosing in all children		113/120 (Missing = 0)	94%	84%	10% ▲
Process in place that allows for 24/7 access to interpreter services in the ED		119/120 (Missing = 0)	99%	100%	-1% ▼
Level of consciousness (e.g. AVPU or GCS) assessed in all children		106/120 (Missing = 0)	88%		
Level of pain assessed in all children		117/120 (Missing = 0)	98%		













Guidelines for Policies, Procedures, and Protocols for the ED (17 points)

Triage policy that specifically addresses ill and injured children		83/120 (Missing = 0)	69%	63%	6% ▲
Policy for pediatric patient assessment and reassessment		94/120 (Missing = 0)	78%	85%	-7% ▼
Policy for immunization assessment and management of the under-immunized child		61/120 (Missing = 0)	51%	53%	-3% ▼
Policy for child maltreatment		118/120 (Missing = 0)	98%	94%	4% ▲
Policy for death of the child in the ED		83/120 (Missing = 0)	69%	52%	17% ▲
Policy for reduced-dose radiation for CT and x-ray imaging based on pediatric age or weight		95/120 (Missing = 0)	79%	59%	20% ▲
Policy for behavioral health issues for children of all ages		98/120 (Missing = 0)	82%		
Involving families and caregivers in patient care decision-making		89/120 (Missing = 0)	74%		

Guidelines for Policies, Procedures, and Protocols for the ED (17 points)

	KPI	2021 Number of EDs that Have Item	2021 Percent that Have Item	2013-14 Percent that Had Item	Difference Between Assessments
Involving families and caregivers in medication safety processes		79/120 (Missing = 0)	66%		
Family and guardian presence during all aspects of emergency care, including resuscitation		85/120 (Missing = 0)	71%		
Education of the patient, family, and caregivers on treatment plan and disposition		88/120 (Missing = 0)	73%		
Bereavement counseling		61/120 (Missing = 0)	51%		
Disaster plan includes availability of medications, vaccines, equipment, supplies, and appropriately trained providers		41/120 (Missing = 0)	34%		
Disaster plan includes decontamination, isolation, and quarantine of families and children		41/120 (Missing = 0)	34%		
Disaster plan includes minimization of parent-child separation and methods for reuniting separated children with their families		39/120 (Missing = 0)	33%		
All disaster drills include pediatric patients		34/120 (Missing = 0)	28%		
Disaster plan includes pediatric surge capacity for both injured and non-injured children		36/120 (Missing = 0)	30%		
Disaster plan includes access to behavioral health resources for children		32/120 (Missing = 0)	27%		
Disaster plan includes care of children with special health care needs		33/120 (Missing = 0)	28%		
Written inter-facility transfer guidelines		79/120 (Missing = 0)	66%	66%	0% ▼

Guidelines for Equipment, Supplies, and Medications for the Care of Pediatric Patients in the ED (33 points)

	KPI	2021 Number of EDs that Have Item	2021 Percent that Have Item	2013-14 Percent that Had Item	Difference Between Assessments
All staff trained on the location of all pediatric equipment and medications		119/120 (Missing = 0)	99%	100%	-1% ▼
Daily method used to verify the proper location and function of pediatric equipment and supplies		106/120 (Missing = 0)	88%	92%	-4% ▼
Standardized chart or tool to estimate weight if resuscitation precludes the use of a weight scale (e.g., length-based tape)		120/120 (Missing = 0)	100%	100%	0% ▲
Neonatal blood pressure cuff		112/120 (Missing = 0)	93%	97%	-3% ▼
Infant blood pressure cuff		119/120 (Missing = 0)	99%	100%	-1% ▼
Child blood pressure cuff		120/120 (Missing = 0)	100%	100%	0% ▲
Defibrillator with pediatric and adult capabilities including pads and or paddles		120/120 (Missing = 0)	100%	100%	0% ▲
Pulse oximeter with pediatric and adult probes		120/120 (Missing = 0)	100%	100%	0% ▲
Continuous end-tidal CO2 monitoring device		115/120 (Missing = 0)	96%	81%	14% ▲
22 gauge catheter-over-the-needle		120/120 (Missing = 0)	100%	100%	0% ▲
24 gauge catheter-over-the-needle		119/120 (Missing = 0)	99%	100%	-1% ▼
Pediatric intra-osseus needles		119/120 (Missing = 0)	99%	95%	4% ▲
IV administration sets with calibrated chambers or an infusion pump		117/120 (Missing = 0)	98%	95%	2% ▲

Guidelines for Equipment, Supplies, and Medications for the Care of Pediatric Patients in the ED (33 points)

	KPI	2021 Number of EDs that Have Item	2021 Percent that Have Item	2013-14 Percent that Had Item	Difference Between Assessments
Endotracheal tubes: cuffed or uncuffed 2.5 mm	●	117/120 (Missing = 0)	98%	95%	2% ▲
Endotracheal tubes: cuffed or uncuffed 3.0 mm	✓	119/120 (Missing = 0)	99%	98%	1% ▲
Endotracheal tubes: cuffed or uncuffed 3.5 mm	✓	119/120 (Missing = 0)	99%	100%	-1% ▼
Endotracheal tubes: cuffed or uncuffed 4.0 mm	✓	120/120 (Missing = 0)	100%	99%	1% ▲
Endotracheal tubes: cuffed or uncuffed 4.5 mm	●	118/120 (Missing = 0)	98%	99%	-1% ▼
Endotracheal tubes: cuffed or uncuffed 5.0 mm	✓	120/120 (Missing = 0)	100%	100%	0% ▲
Endotracheal tubes: cuffed or uncuffed 5.5 mm	●	118/120 (Missing = 0)	98%	99%	-1% ▼
Endotracheal tubes: cuffed 6.0 mm	✓	120/120 (Missing = 0)	100%	99%	1% ▲
Laryngoscope blades: straight, size 0	●	116/120 (Missing = 0)	97%	94%	2% ▲
Laryngoscope blades: straight, size 1	✓	120/120 (Missing = 0)	100%	100%	0% ▲
Laryngoscope blades: straight, size 2	●	116/120 (Missing = 0)	97%	98%	-1% ▼
Laryngoscope blades: curved, size 2	●	118/120 (Missing = 0)	98%	99%	-1% ▼
Pediatric-sized Magill forcep	●	106/120 (Missing = 0)	88%	88%	0% ▲
Nasopharyngeal airways: infant-size	●	112/120 (Missing = 0)	93%	86%	7% ▲
Nasopharyngeal airways: child-size	●	114/120 (Missing = 0)	95%	88%	7% ▲

Guidelines for Equipment, Supplies, and Medications for the Care of Pediatric Patients in the ED (33 points)

	KPI	2021 Number of EDs that Have Item	2021 Percent that Have Item	2013-14 Percent that Had Item	Difference Between Assessments
Oropharyngeal airways: size 0 (50mm)	●	113/120 (Missing = 0)	94%	93%	1% ▲
Oropharyngeal airways: size 1 (60mm)	●	114/120 (Missing = 0)	95%	99%	-4% ▼
Oropharyngeal airways: size 2 (70mm)	●	113/120 (Missing = 0)	94%	99%	-5% ▼
Oropharyngeal airways: size 3 (80mm)	●	114/120 (Missing = 0)	95%	99%	-4% ▼
Stylets for pediatric/infant-sized endotracheal tube	●	118/120 (Missing = 0)	98%	100%	-2% ▼
Bag-mask device, self-inflating (infant/child)	✓	120/120 (Missing = 0)	100%	94%	6% ▲
Masks (neonatal size) to fit bag-mask device	●	113/120 (Missing = 0)	94%	98%	-4% ▼
Masks (infant size) to fit bag-mask device	●	118/120 (Missing = 0)	98%	100%	-2% ▼
Masks (child size) to fit bag-mask device	✓	119/120 (Missing = 0)	99%	100%	-1% ▼
Simple oxygen face masks: standard infant	●	115/120 (Missing = 0)	96%	97%	-1% ▼
Clear oxygen masks: standard child	●	117/120 (Missing = 0)	98%	95%	2% ▲
Non-rebreather masks: infant-sized	●	108/120 (Missing = 0)	90%	92%	-2% ▼
Non-rebreather masks: child-size	●	114/120 (Missing = 0)	95%	95%	0% ▼
Nasal cannulas: infant	●	114/120 (Missing = 0)	95%	94%	1% ▲
Nasal cannulas: child	●	118/120 (Missing = 0)	98%	97%	2% ▲
Suction catheters: at least one in range 6-8F	●	118/120 (Missing = 0)	98%	93%	5% ▲
Suction catheters: at least one in range 10-12F	✓	119/120 (Missing = 0)	99%	99%	0% ▲
Supplies/kit for pediatric patients with difficult airways	●	106/120 (Missing = 0)	88%	87%	1% ▲