

What Can Colorado EMS for Children Do for You?



EMS for Children Program

Since 1985, EMSC is administered through the Health Resources and Services Administration (HRSA) the Maternal and Child Health Bureau (MCHB).

EMSC expands and improves emergency care for children through research, partnership, and practice through 71 grants and cooperative agreements to state governments and schools of medicine. Work includes:

State and Territory EMSC Programs

Pediatric Emergency Care Applied Research Network (PECARN)

EMSC Improvement and Innovation Center (EIIC)

EMS Data Center

EMS for Children Programs and Grants



EIIC
EMSC Innovation and
Improvement Center



EDC
EMSC Data Center



PECARN
Pediatric Emergency Care
Applied Research Network



You are here



**State
Partnership
Program**



**Family
Advisory
Network**



**Targeted
Issues
Grants**

EMSC Colorado



EMS for Children (EMSC) Colorado is charged with integrating, expanding, and improving pediatric emergency care by promoting the value and importance of integrating pediatric emergency care into the state emergency medical system.

MISSION

To promote optimal care for pediatric acute illness and injury across Colorado through prevention, advocacy and education

VISION

All children in Colorado receive the best pediatric emergency care

VALUES

Collaborative, Family-Centered, Evidence-Based, Compassionate, Responsible, and Equitable

EMSC Colorado Programs

- ❑ COPPER - Colorado Pediatric Preparedness for the ER
- ❑ COPECC – Colorado Pediatric Emergency Care Coordinators
- ❑ PREPARE - Pediatric Readiness for Prehospital Care
- ❑ Mobile Simulation and Education

Why Pediatric Readiness?

THE WALL STREET JOURNAL.

SIGN IN

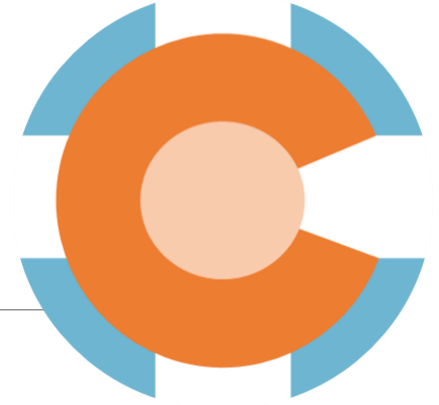


EXCLUSIVE

Children Are Dying in Ill-Prepared Emergency Rooms Across America

Hospitals and regulators have done little to ensure E.R.s are ready to treat children in emergencies, while researchers prove taking basic steps can save lives

What is COPPER?



COPPER is a voluntary pediatric readiness recognition program for Colorado emergency departments.

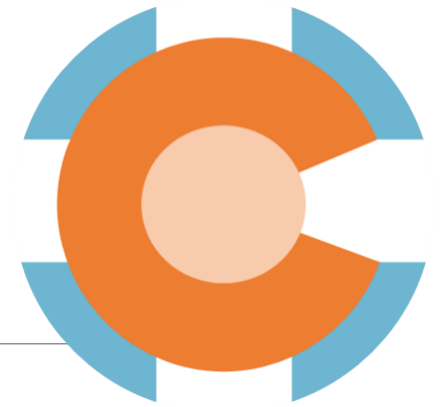
The program has two levels of recognition:

- Pediatric Prepared
- Pediatric Advanced

Requirements for COPPER include:

Pediatric Emergency Care Coordinators	Competencies of ED Health Care Providers
Quality and/or Performance Improvement	Pediatric Patient and Medication Safety
Policies, Procedures, and Protocols	ED Support Services
Equipment and Supplies	Medication

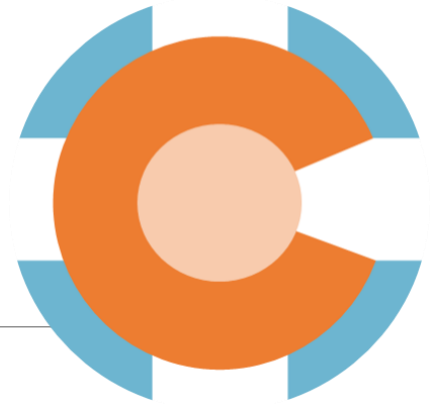
What is COPPER?



COPPER was developed by Colorado EMS for Children in collaboration with several statewide partners. The program strives to help emergency departments achieve a higher level of pediatric readiness by providing key resources, support, and education.



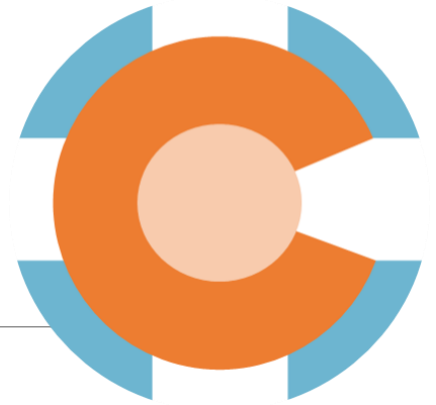
Why COPPER?



- Children make up 1 out every 5 ED visits
- 90% of children are seen at a hospital without a pediatric specialty ED
- 53.5% of Colorado children live in counties without a pediatric hospital
- Being a Level 1 trauma center has no association with improved outcomes (unless they have completed pediatric readiness work and a score higher than 86)

Research has shown that high pediatric readiness in EDs (scoring 87> on the National Pediatric Readiness Project Assessment improves outcomes for children.

Why COPPER?



Research has shown that high pediatric readiness in EDs (scoring 87+ on the National Pediatric Readiness Project Assessment) improves outcomes for children.

High pediatric readiness in EDs is associated with:

76%

lower mortality rate in ill children¹

60%

lower mortality rate in injured children²

AT LEAST 1,400

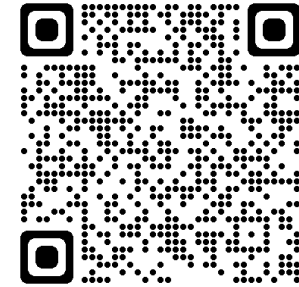
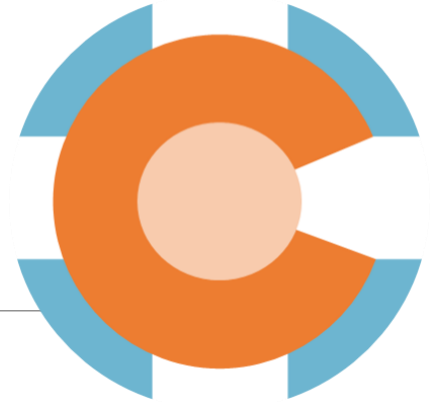
children's lives saved across the US each year²

1. "Emergency Department Pediatric Readiness and Mortality in Critically Ill Children" *Pediatrics*, 2019, Ames et al.

2. "Emergency Department Pediatric Readiness and Short-term and Long-term Mortality Among Children Receiving Emergency Care" *JAMA Network Open*, 2023, Newgard et al.

How do we get started?

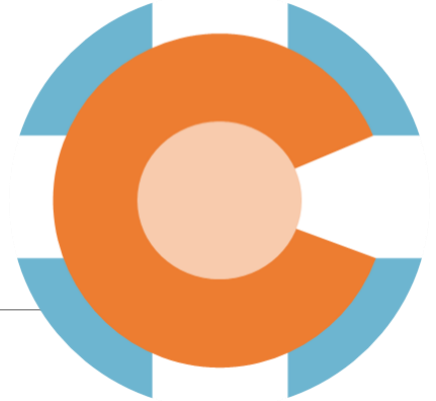
www.EMSCColorado.com



Resources to Support Your Emergency Department's Pediatric Readiness

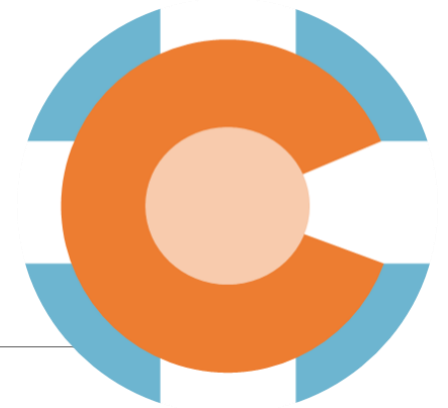
Overwhelmed? We've created a curriculum guide to walk you through pediatric readiness improvement and to help you navigate the COPPER Resource Library.

How do we get started?



- If you have not complete the NPRP Assessment, go to: pedsready.org
- Identify your Nurse and Physician PECC
- Build your team – ED, Pharmacy, Radiology, QI/QA, Nursing Leadership, Education,
- Go to the EMSC Colorado website: www.emsccolorado.com and download the COPPER Checklist
- Complete the COPPER application
- Review the checklist with your team and pick a place to start

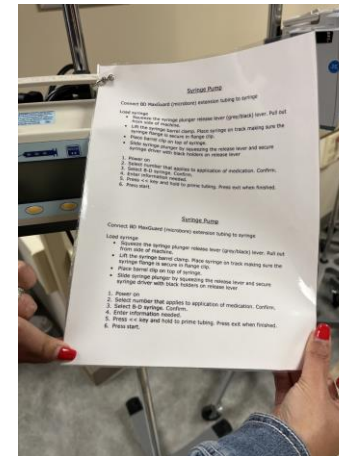
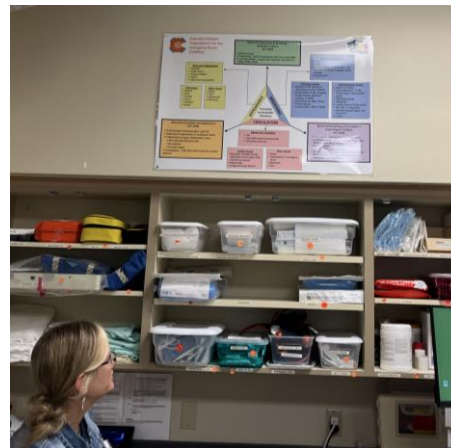
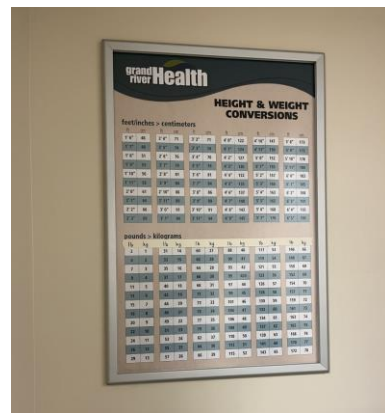
We are here for you! Join our COPPER meetings, email or call.



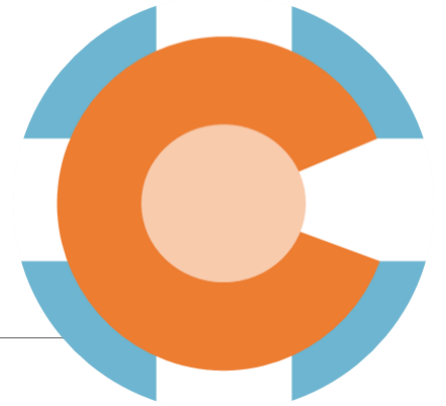
COPPER Success Stories

Grand River Health, Rifle Colorado:

- Level 4 trauma center, 25 bed facility
- 10/12/2020 National Pediatric Readiness Assessment Score: 51
- 5/3/2023 Colorado's 1st COPPER verified facility – Pediatric Advanced
- 6/282/203 National Pediatric Readiness Assessment Score: 97.5



COPPER Success Stories



THE WALL STREET JOURNAL. [SIGN IN](#) [SUBSCRIBE](#)

A photograph showing two healthcare professionals, one in light blue scrubs and one in dark blue scrubs, leaning over a white medical training mannequin lying on a green surface. They appear to be examining the mannequin, possibly for a training exercise. The background shows a blurred indoor setting, likely a hospital or training facility.

HEALTH HEALTHCARE

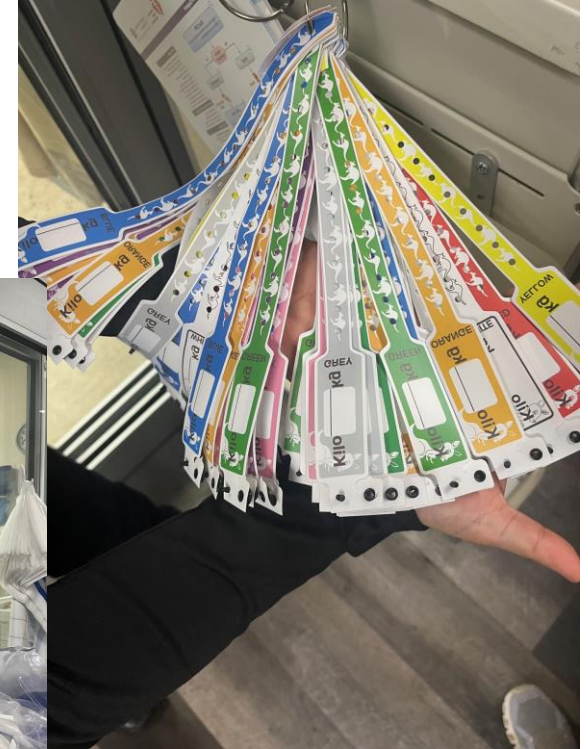
Emergency Rooms Are Failing Kids. This Hospital Stepped Up.

Grand River Health's emergency room improved its readiness to take care of children by color-coding its equipment and training staff

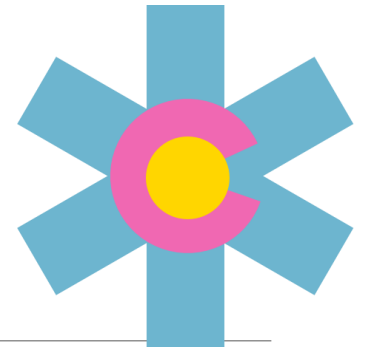
COPPER Success Stories

Delta Health

- Level 4 trauma center
- Pediatric Trauma doubled in 2023
- 2020 NPRP score: 40
- 2024 NPRP score: 100



What the heck is a PECC?

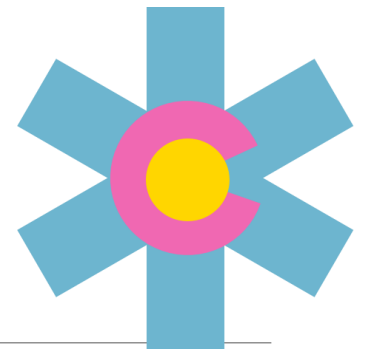


A pediatric emergency care coordinator (PECC) is an individual or team of individuals responsible for coordinating pediatric specific activities.

The PECC need not be dedicated solely to this role; it can be an individual(s) already in place who assumes this role as part of their existing duties.

EMS - the individual(s) may be a member of your agency, or work at a county or regional level and serve more than one agency.

ED – a least one nurse PECC who works in that ED and (ideally) one physician



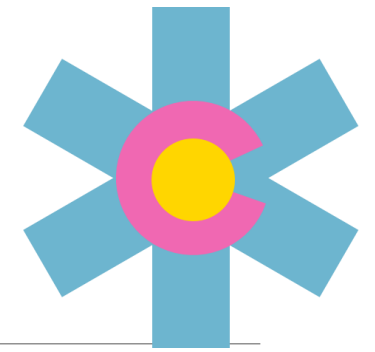
Why PECCs Matter

PECCs are a proven strategy for improving emergency care for children:

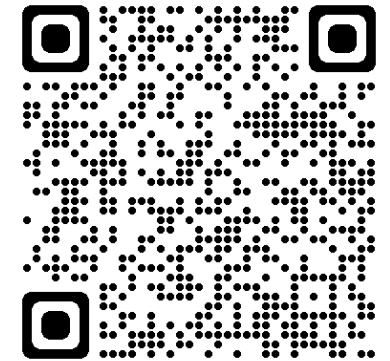
- Since significant survival benefits exist at 88 points or above, a PECC is one of the strongest drivers of improved pediatric outcomes.
- Having a PECC in the ED is tied to double-digit increases
- PECCs presence is associated with improved compliance with published guidelines.

While prehospital research is ongoing, it is expected that PECCs in EMS agencies have a similar impact.

COPECC Resources

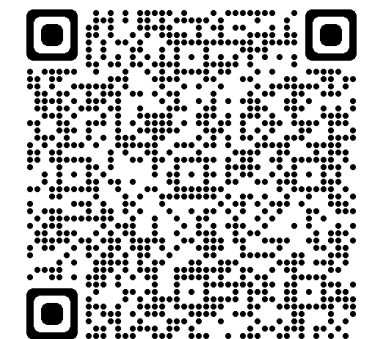


- Quarterly PECC meetings starting in February 2024
 - Education resources, mentorship, best practices, tools
- <https://www.emsccolorado.com/copecc>



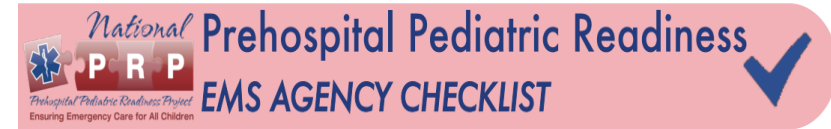
3rd Annual Pediatric Emergency Care Seminar
March 14 – 15, 2024
Gateway, Colorado

<https://www.emsccolorado.com/upcoming-events>



PREPARE

(Pediatric Readiness for Prehospital Care)



This checklist is based on the 2020 joint policy statement "[Pediatric Readiness in Emergency Medical Services Systems](#)", co-authored by the Academy of Pediatrics (AAP), American College of Emergency Physicians (ACEP), Emergency Nurses Association (ENA), National Association of EMS Physicians (NAEMSP), and National Association of EMTs (NAEMT). Additional details can be found in the AAP Technical Report "[Pediatric Readiness in Emergency Medical Services Systems](#)".

Improve Pediatric Readiness in EMS Systems by establishing a standardized pediatric readiness recognition program for prehospital EMS agencies by:

- increasing PECCs in prehospital EMS agencies
- increasing the number of prehospital EMS agencies that have a process for pediatric skills-check on the use of pediatric equipment.

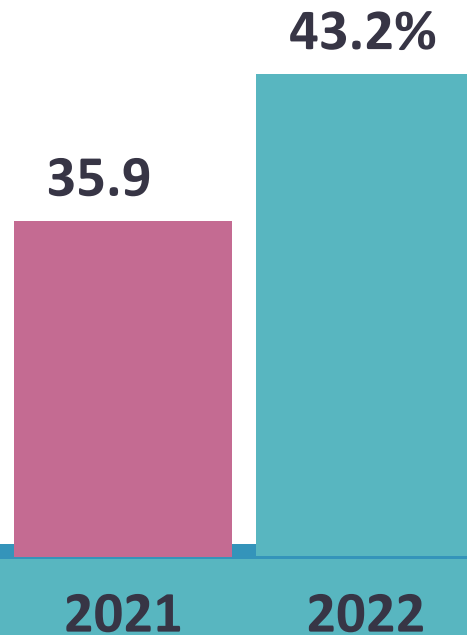
PREPARE is rooted in the Prehospital Pediatric Readiness Program and The Prehospital Pediatric Readiness EMS Agency Checklist, which is based on the 2020 joint policy statement "Pediatric Readiness in Emergency Medical Services Systems

PPRP Checklist

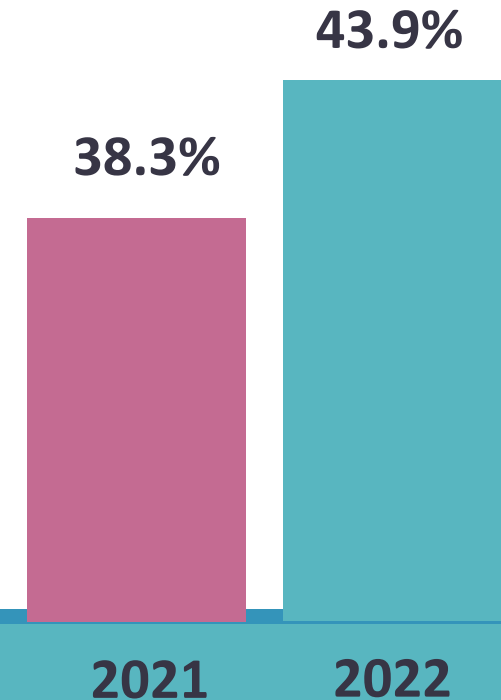
Education and Competencies for EMS Providers	Policies, Procedures and Protocols (to include Medical Oversight)
Quality Improvement/Performance Improvement	Equipment and Supplies
Patient and Medication Safety	Patient and Family-Centered Care in EMS
Interactions with Systems of Care	

EMSC PERFORMANCE MEASURES UPDATE for EMS

% of EMS agencies that have a designated individual who coordinates pediatric emergency care



% of EMS agencies that require EMS providers to physically demonstrate correct use of pediatric specific equipment



Why PREPARE?

Less than 10% of EMS calls are for pediatric patients

43.6% of EMS agencies see less than 1 pediatric patient per month (on average)

Pediatric patients often provoke discomfort and anxiety among EMS personnel

In other words....

“I know exactly what to do. But in a much more real sense, I have no idea what to do.”
–Michael Scott, The Office

Next Steps for PREPARE

- Building the steering committee
 - Interest? Email EMSC.Colorado@cuanschutz.edu
- Review and refine the PPRP Checklist
- Identify resources
- Recruit pilot sites
- Build the website
- Trial through pilot sites
- Launch PREPARE

MOBILE SIMULATION AND OUTREACH

- High fidelity simulation
- Simulation Ambulance
- Customizable simulation and education



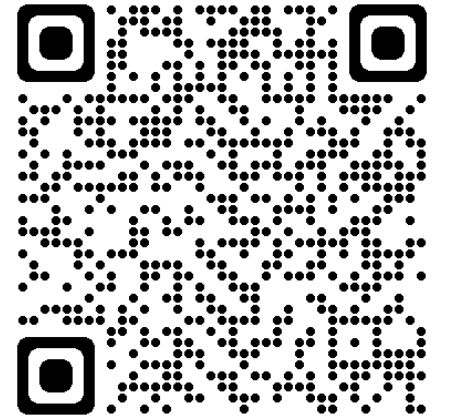
We have Resources!

EMS for Children Colorado – www.emsccolorado.com

- Education Calendar
- Pediatric Procedure videos
- Readiness Checklists
- EICC - emscimprovement.center
- QI Collaborates
- Education

Pediatric Emergency and Advocacy Kits (PEAK)

Webinars, Toolkits, Videos



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