



EMS FOR CHILDREN

**PECC**

Prehospital Pediatric Emergency Care Coordinator

**LEARNING COLLABORATIVE**



# Acknowledgement

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- This information or content and conclusions are those of the author and should not be construed as the official position or policy of, nor should any endorsements be inferred by HRSA, HHS or the U.S. Government.

# September 28 Presenters/Agenda

- CO: Kathleen Adelgais, MD, MPH
  - COPECC: Colorado Pediatric Emergency Care Coordinator Program
- OH: Julie Leonard, MD, MPH
  - Ohio EMS for Children Pediatric Emergency Care Coordinator Webpage
- Agenda:
  - Two state team leaders (CO and OH) will share their experiences with PECC program as well as successes and lessons learned. This will be followed by discussion/Q&A.

# EMSC Performance Measures 02

- The percentage of EMS agencies in the state or territory that have a designated individual who coordinates pediatric emergency care.
- By 2020, 30 percent of EMS agencies in the state or territory have a designated individual who coordinates pediatric emergency care.
- By 2023, 60 percent of EMS agencies in the state or territory have a designated individual who coordinates pediatric emergency care.
- By 2026, 90 percent of EMS agencies in the state or territory have a designated individual who coordinates pediatric emergency care.

# PECC Community of Practice (CoP)



## ■ Community

- Membership is open to all individuals with the shared **goal of improving prehospital care through PECCs**

## ■ Practice

- Learn from and with each other through **quarterly online one hour meetings** and ongoing interactions (email/phone/online)
- Share best practices, experiences, stories, tools, ways of addressing recurring problems



# Learning Objectives

1. Summarize the experiences of two states' work with PECC programs
2. Discuss strategies to address challenges in implementing/sustaining PECCs
3. Identify resources, best practices to support implementing/sustaining PECCs

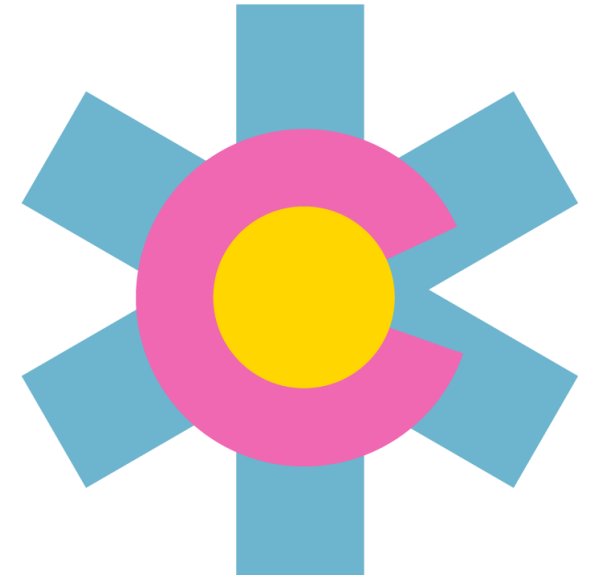
# Colorado Presenter – Kathleen Adelgais, MD, MPH



Dr. Adelgais is the Colorado EMS for Children State Partnership Principle Investigator. She has extensive experience in pediatric emergency medicine and is a board certified pediatric emergency medicine specialist and practices medicine out of the Children's Hospital Colorado. She is currently a professor of Pediatric-Emergency Medicine at the University of Colorado School of Medicine and serves at the Prehospital Domain Co-Lead for the EMSC Innovation and Improvement Center. She received her BS from the University of California – Los Angeles and her MD from the University of Minnesota Medical School.



**C**olorado **P**ediatric  
**E**mergency **C**are  
**C**oordinator Program  
**COPECC**



**Kathleen Adelgais, MD, MPH**

CO EMSC State Partnership PI

**Robert Weisbaum, NRP, FP-C, MPO**

Crested Butte Fire Protection District

# Colorado by the Numbers...



- Ground EMS agencies: **200**
- Approximate number of EMS providers:
  - **12,950 EMTs**
  - **290 AEMTs / 450 EMT-I**
  - **4,650 Paramedics**
- National Registry certification: **Required**
- Approximate state population: **5,696,000**
  - Average population per provider: **311**
- State area: **104,094** square miles
- State EMS Registry: **Image Trend**
  - >80% of agencies reporting NEMSIS v.3 data



# Colorado EMSC State Partnership Program

## GRANTEE



School of Medicine

UNIVERSITY OF COLORADO  
**ANSCHUTZ MEDICAL CAMPUS**

## PERSONNEL

**Program Director:**

Kathleen Adelgais, MD, MPH

**Program Manager:**

Stacey Quesada, MPH

**Family Representative:**

Angelique Ferayorni, MD, BCPA

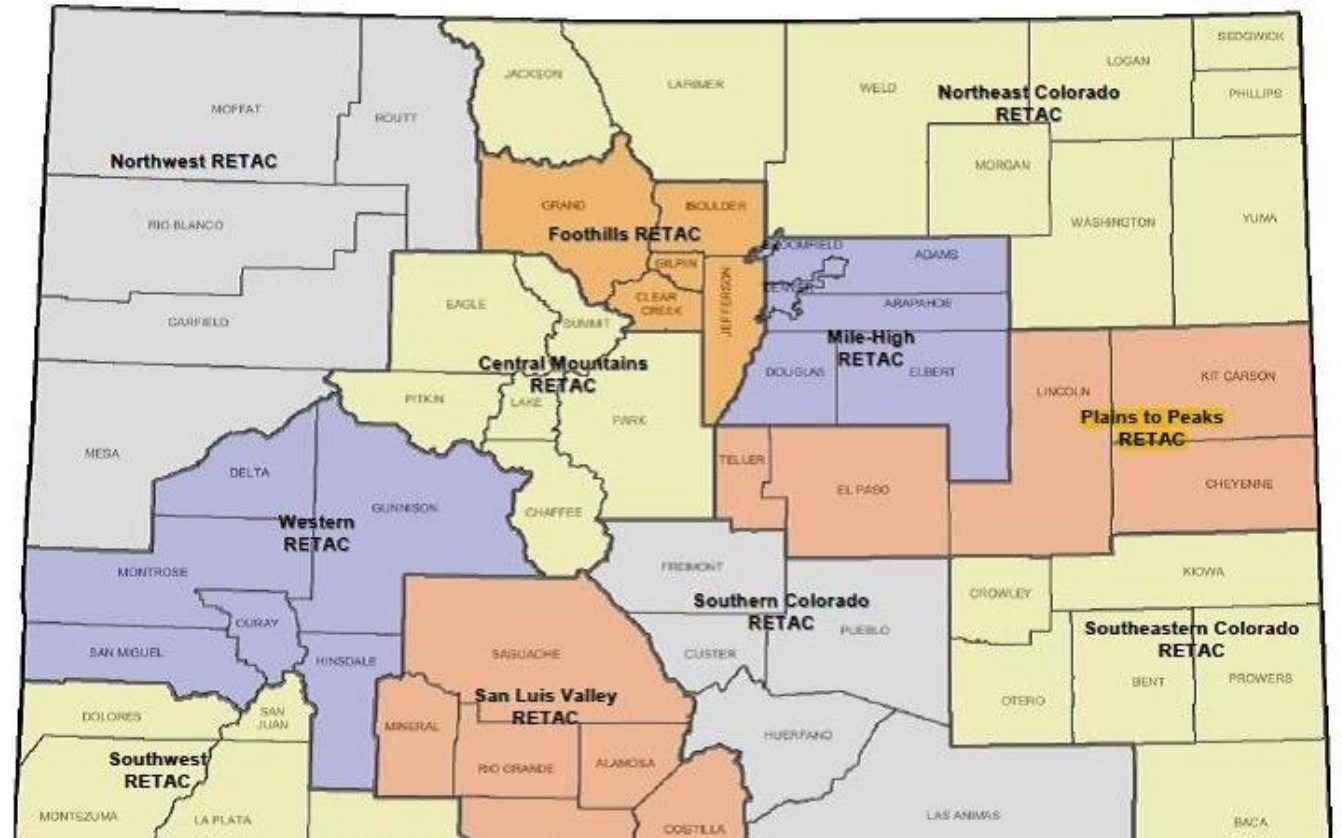
## KEY PARTNERS

- CDPHE (EMTS, OEPR)
- **RETACs**
- Children's Hospital Colorado
- Rocky Mountain Hospital for Children
- Denver Health and Hospital Authority
- EMS agencies
- PECARN
- State Advisory Committee (**PECC**)

[www.emscolorado.com](http://www.emscolorado.com)

# RETACs: Regional Emergency and Trauma Advisory Councils

- 11 RETACs in Colorado
  - Executive Directors
  - Regional Medical Director
- Authorized by statute to provide a coordinated approach to emergency medical and trauma care



# EMSC Colorado Projects/Resources

- **COPPER: Colorado Pediatric Preparedness for the ER**
- PECARN EMS Affiliate in PEM-NEWS  
*(Aurora Fire Rescue/Falck Ambulance)*
- EMSC TI Grant-PECCs in EMS  
*(PI, M. Cicero, Yale University)*
- EMSC Mobile Simulation Trailer
- **COPECC: Colorado Pediatric Emergency Care Coordinator Program**



PEDIATRIC EMERGENCY CARE  
APPLIED RESEARCH NETWORK



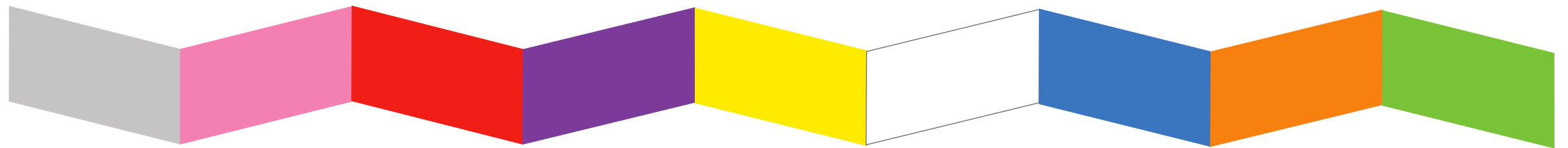
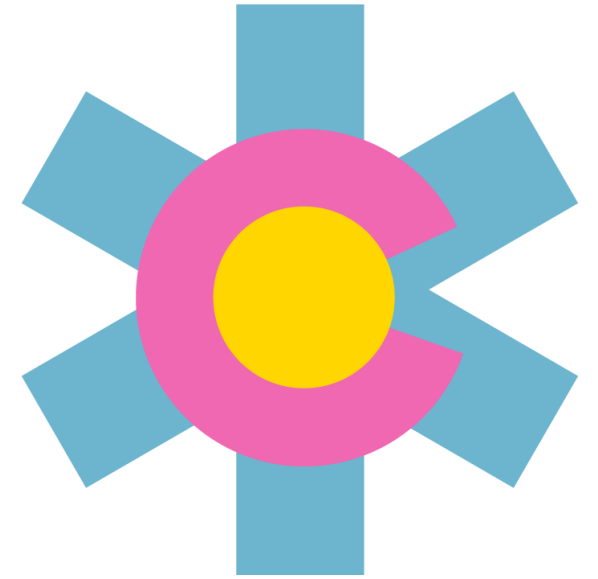
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EMSC Funded Programs



COLORADO PEDIATRIC  
EMERGENCY CARE  
COORDINATORS (COPECC)



# COPECC: Goals



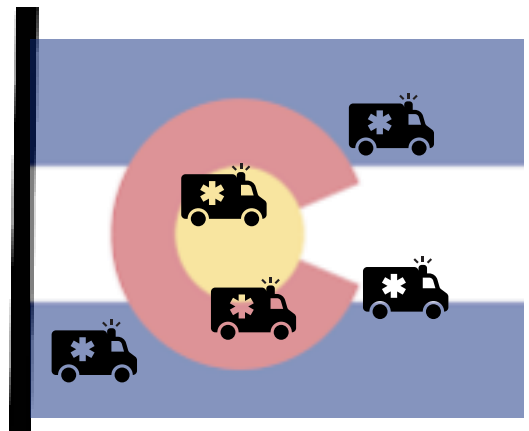
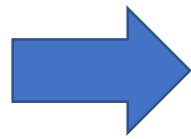
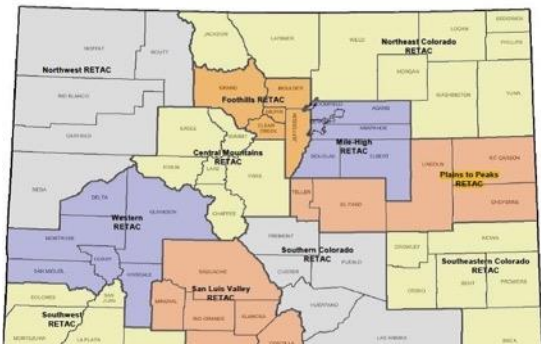
- Create a statewide program to promote the implementation of prehospital PECCs
- Create a manual or toolkit for PECCs
- Support agencies that are implementing PECCs by offering resources and training such as the EMSC mobile simulation trailer
- By 2020, 30% of Colorado's EMS agencies have a designated PECC
- By 2023, 60% of Colorado's EMS agencies have a designated PECC

# COPECC: Program



- **Objectives:**

- Work with RETAC coordinators, EMS agencies, and other key partners to define PECC role and responsibilities
- Maximize implementation of PECCs at agencies and/or regions across the state



- **Current Status:**

- Stakeholder engagement
- Participation in TI Grant project
- Addition of “presence of a PECC” to the agency profile at the state





# COPECC: Stakeholder Engagement



## Prehospital PECC

**Fast Facts**

what can we do to provide better care to children?

**definition** Pediatric Emergency Care Coordinator (PECC)

An individual or individuals who are responsible for coordinating pediatric-specific activities.

A designated individual who coordinates pediatric emergency care need not be dedicated solely to this role; it can be an individual already in place who assumes this role as part of their existing duties. The individual may be a member of your agency, or work at a county or region level and serve more than one agency.

Based on responses to the 2017-2018 EMS for Children Program assessment

**state data**

A 2017-18 EMSC assessment asked Colorado's EMS agencies whether they had a designated individual who coordinates pediatric emergency care.

**27% HAVE A PECC**  
(out of 156 responding agencies)  
↑ national average = 23%

**Coordination of Pediatric Emergency Care**

Category	Percentage
Has a PECC	27%
Plans to Add a PECC	2%
Interested in a PECC	26%
No PECC	48%

**# of Agencies the PECC Oversees**

Agency Type	Percentage
One Agency	81%
Multiple Agencies	19%

Legend:   
■ Has a PECC   
■ Plans to Add a PECC   
■ Interested in a PECC   
■ No PECC

**the evidence** What the research shows

**RESOURCE DOCUMENT: COORDINATION OF PEDIATRIC EMERGENCY CARE IN EMS SYSTEMS**  
 Katherine Remick, MD, Toni Gross, MD, MPH, Kathleen Adelgais, MD, MPH, Manish I. Shah, MD, MS, Julie C. Leonard, MD, MPH, Marianne Gausche-Hill, MD

The conclusion of this 2017 systematic review is that an "EMS PECC facilitates the integration of pediatric needs into all aspects of EMS," and that EMS agencies may benefit from having a PECC based upon results received from pediatric verification programs for emergency departments.

Whether your agency is urban, rural, volunteer, or paid, various staffing models can fit your needs

**staffing plan options**

AGENCY	REGIONAL
<ul style="list-style-type: none"> <li>One full-time individual (dedicated role)</li> <li>One individual with additional duties</li> <li>More than one individual sharing duties (eg, EMS Chief &amp; Medical Director)</li> </ul>	<ul style="list-style-type: none"> <li>Shared individual</li> <li>Medical directors group</li> <li>Pediatric committee</li> </ul>

**roles & responsibilities pick-list**

Various roles & responsibilities can be given to a PECC, although there is no required set

- Protocol development/ review
- Case review & feedback
- Pediatric education/ training
- Equipment, supplies, medication availability
- Direct medical oversight
- Injury prevention
- Promote family-centered care
- Hospital outreach/ coordinate with ED
- Community paramedicine
- Pediatric QI/PI
- Identify local trends
- Research
- Identify best practices/ evidence-based medicine

Various resources exist to help you implement and support a PECC in your agency

**additional information**

EMS FOR CHILDREN **PECC** Prehospital Pediatric Emergency Care Coordinator LEARNING COLLABORATIVE

**EMS For Children Colorado**

Colorado EMSC Program Contact: Stacey Quesada stacey.quesada@cuanschutz.edu (303) 724-2565

Ensure Pediatric PECC is Included in Protocols

Oversees Pediatric Process Improvement Efforts

in on

# COPECC: TI Grant Participation



Multicenter project involving CO, CT, RI

- Three objectives:
  - **Development of tools** to assess family satisfaction; assess effectiveness of PECCs
  - **Assess patient outcomes** related to PECCs
  - Assess change in **EMS professional performance in simulation** related to PECCs



EMSC Funded Programs

**EMSC | IIC**  
Emergency Medical Services  
for Children | Innovation &  
Improvement Center



# COLORADO's Agencies

Rural-Tourism Fire-  
based EMS Service



County-based  
EMS Service



Large City Fire-  
based EMS Service



Rural/Frontier Fire-  
based EMS Service



Hospital based  
EMS Service

# COPECC: TI Grant Participation



## Work completed to date:

- **Identification of a PECC** for all 5 agencies
- **Train the Trainer** for Simbox trainings
- Established **Data Use Agreements** for chart review
- Development and publication of the **FAMILY** tool (Family Assessment of Medical Interventions & Liaisons with the Young) (*Cicero, et. al. Prehosp Emerg Care, 2020*)
- Initiation of focus groups to develop the **PEET** (PECC Effectiveness Evaluation Tool)

# Crested Butte Fire Protection District

*Robert Weisbaum NRP, FP-C, MPO  
(EMS & Fire Chief and Chief  
Operating Officer)*



# COPECC: Progress to Date



- Starting to recruit for COPECC Steering Committee
- Ongoing engagement with State Stakeholders
  - RETACs (quarterly meeting)
  - EMSC Advisory Committee (quarterly meeting)
  - Networks through state Peds Ready Program (COPPER) (monthly meeting)

# COPECC: Next Steps



## Upcoming:

- Participation in PECC Workforce Quality Collaborative
- Facilitate COPECC Steering Committee meetings to develop additional program content



Utilize checklist, toolkit from the Prehospital Pediatric Readiness program

## Long Term Goals:

- Mentor agencies
- Recommendations for PECC role, skills, qualifications
- Registry and recognition of agencies implementing PECCs
- Organization of an annual workshop for PECCs

# Colorado: Recent National Assessment

A photograph of two EMTs, a woman on the left and a man on the right, both wearing dark blue uniforms with red accents and stethoscopes. They are smiling and have their arms crossed. The image is semi-transparent with text overlaid.

## EMSC PM 2

Percent of EMS agencies in the state/territory that have a designated individual who coordinates pediatric emergency care

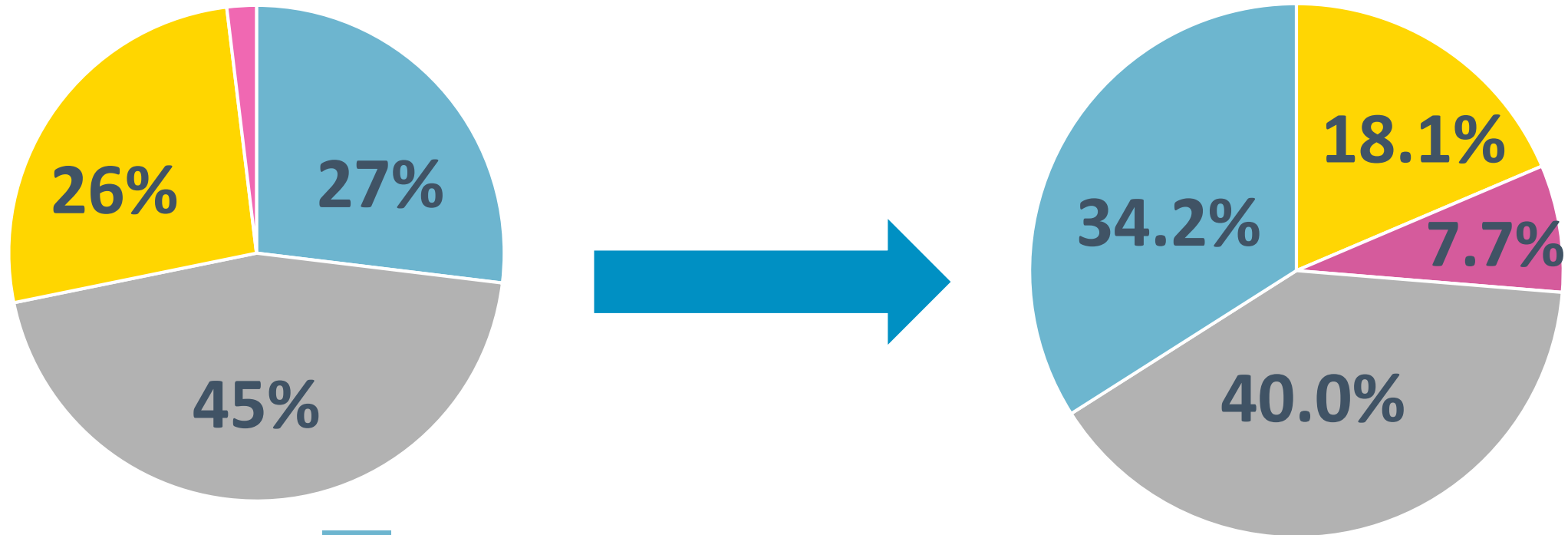
A photograph of various EMS equipment, including a yellow stretcher, blue bags, and other medical supplies, arranged on a surface. The image is semi-transparent with text overlaid.





## EMSC PM 3

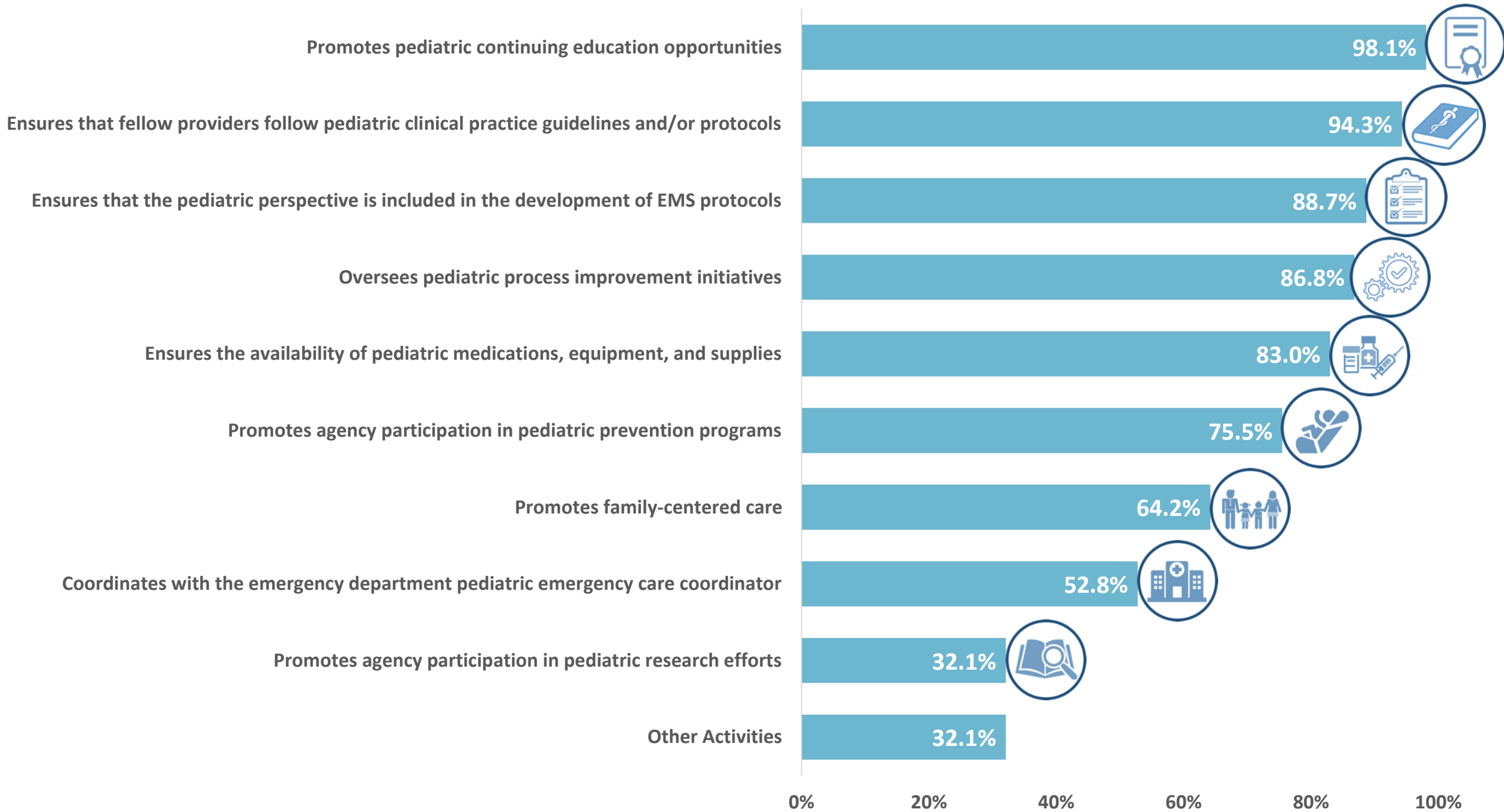
Percent of EMS agencies in the state/territory that have a process that requires EMS providers to physically demonstrate the correct use of pediatric-specific equipment



# Prehospital PECCs in Colorado 2018 to 2020



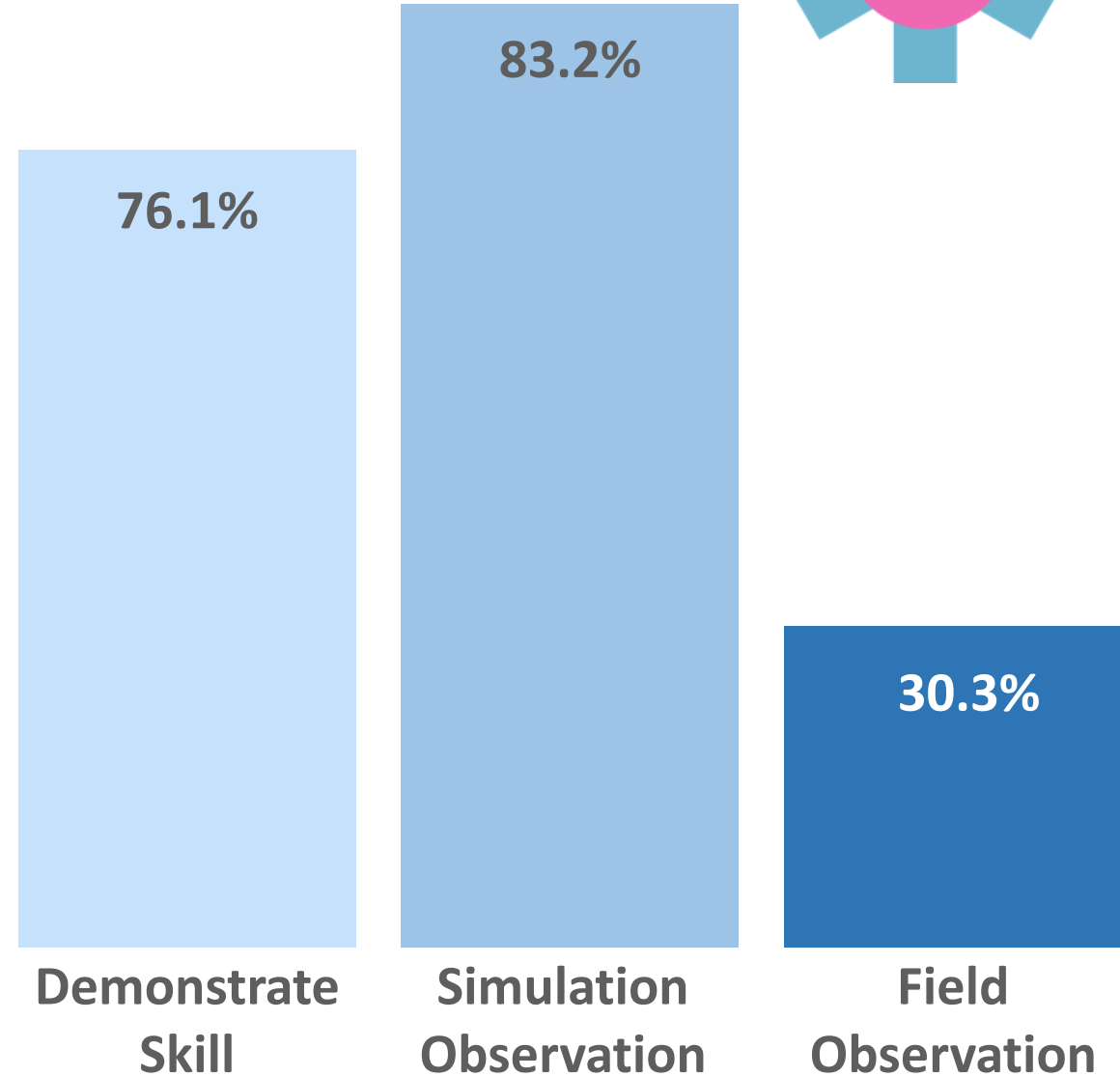
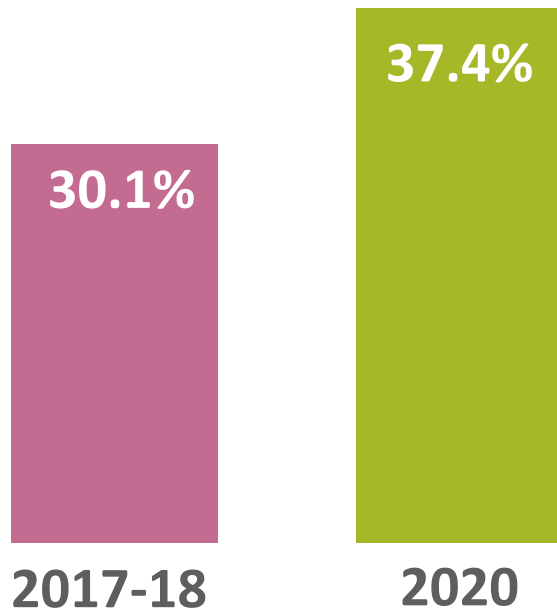
-  Agency has a PECC
-  Agency does not have a PECC
-  Agency is interested in having a PECC
-  Agency is planning to add a PECC



# Colorado EMSC PM 3



## EMSC 03: SKILL CHECKING



# COPECC: Summary



- Colorado EMSC is a vibrant program fully engaged in the work to increase PECCs across our state
- Participation in the TI Grant Project will help develop best practices to support the role of PECCs for EMS Agencies in Colorado
- Looking forward to the development of the full COPECC program leveraging
  - Prehospital Pediatric Readiness
  - EIIC PECC Workforce Collaborative
- Current efforts have already demonstrated gains in the number of EMS PECCs in Colorado

# Thank You!!!

[kathleen.adelgais@childrenscolorado.org](mailto:kathleen.adelgais@childrenscolorado.org)



# Ohio Presenter – Julie Leonard, MD, MPH



Dr. Leonard is an associate professor of pediatrics at Nationwide Children's Hospital and the Ohio State University College of Medicine. She is a board certified pediatric emergency medicine subspecialist and practices medicine in the emergency department at Nationwide Children's Hospital. At Nationwide Children's Hospital Research Institute, she serves as the Director of clinical research for the Center for Injury Research and Policy and the Associate director for the Center for Pediatric Trauma Research. Over the course of her career, she has developed expertise in the emergency management of injured children. She is also a research collaborator in the Pediatric Emergency Care Applied Research Network (PECARN).

# Ohio EMS for Children Pediatric Emergency Care Coordinator Webpage



**NATIONWIDE CHILDREN'S**  
*When your child needs a hospital, everything matters.*

# Background Information

- Created out of a challenges with the state website
  - Difficult to navigate
  - Not updated regularly
  - Content requires approval from the state
  - Unable to track activity or PECCs
- Creates a centralized location for Ohio specific pediatric prehospital information
- Sustainable – leadership changes, website lives on
- Website went live on 9/15
  - 58 Members to date



# Benefits

- Encourages identification of a PECC
- Easily tracks membership
- Updated regularly
- Members can upload documents to share or download documents for review
- Centralized location for state specific pediatric events, announcements, protocols, training resources etc.

# Infrastructure

- State webpage housed within the EICC's website
- State specific webpage overseen by EMSC State Partnership Grant Program Director and Manager
- User-friendly editing software - Wagtail

# Membership

- First time user requests access
    - Declares role within agency- PECC, manager, medical director etc.
  - State specific webpage management team reviews and approves/denies access
  - Approval gives full access to webpage resources
  - Membership includes access to:
    - Training resources
    - Announcements to funding opportunities
    - Calendar events
    - Closed Facebook group
    - PECC directory
-

# Member's Only Home Page

- Clear linkage to member's only sections
- Highlights high priority news/ events
- Calendar with upcoming events

## Ohio PECC Members' Area

### This page is restricted to authenticated users

Welcome to the secure home page for Ohio EMSC Pediatric Emergency Care Coordinators (PECCs). You have been granted access here because you are registered as the PECC for your EMS agency. The information on this site is meant to help you improve your agency's pediatric emergency care, and may also be used to partner with other EMS agencies to help improve pediatric emergency care throughout the state.

There are three sections within the secure site: the Resource Library, the Calendar, and the Crew's Quarters. The Resource Library contains information to help in pediatric training, updates on research, and links to additional information to assist you in your position as PECC. The Resource Library may also be used to upload information to share resources with your fellow PECCs. The Calendar includes information about upcoming training opportunities and other pertinent events. You may request items to be added to the calendar as well. The Crew Quarters includes a list of current registered PECCs throughout Ohio, and a link to a forum where you can discuss issues with other PECCs.

We hope that the information here gives you additional resources to help improve pediatric care at your agency, and will help to increase the visibility of pediatrics as a vital part of EMS operations and a vital part of your community.

Ohio PECC Members' Area
Calendar
News
Resource Library
Crew's Quarters
Contact



#### Resource Library

The Ohio PECC Resource Library section includes pediatric training information provided by Ohio's pediatric hospitals, as well as updates on various issues in pediatric



#### News and Events

The Ohio PECC News and Events section includes a calendar of current events and educational opportunities relating to pediatric care. The News contains stories



#### Crew's Quarters

The Ohio PECC Crew's Quarters section contains a list of PECCs registered in Ohio and a link to an online forum where you can communicate directly with other PECCs on



## Upcoming Events

Week Month Year

September 2020

today < >

September 10, 2020	Thursday
11:00am - 4:00pm	Pediatric Disaster Exercise Training Event
September 30, 2020	Wednesday
2:30pm - 3:45pm	How the COVID Pandemic is Impacting Children Webinar

## Register Your Ohio PECC

Ohio EMS agencies can contact us to register their PECC. Registering has several benefits, including:

- Helping Ohio EMSC report more accurately on the percentage of agencies with a PECC
- Improving communication between PECCs and Ohio EMSC
- Allowing for sharing resources and information between PECCs

Please note that PECC Registration is voluntary.



**NATIONWIDE CHILDREN'S**  
*When your child needs a hospital, everything matters.*

# Calendar

- Shows upcoming events
  - Color coded by event type
- Ability to download and add to personal calendar

## Calendar

The Ohio PECC Calendar section includes updates on current events and educational opportunities relating to pediatric care. News items may take many forms, but events and training are listed on the calendar. You may request events to be added to the calendar by following the "contact" link of by EMSC@dps.ohio.gov with the subject, "PECC Calendar Request". [Contact](#)

Week Month Year **September 2020** today < >

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10 ● 11a Pediatric Di	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30 ● 2:30p How the C	1	2	3
4	5	6	7	8	9	10

- Ohio PECC Members' Area
- Calendar**
- News
- Resource Library
- Crew's Quarters
- Contact

### Filter Events

- All
- Training Event
- Webinar

# News

- Stay up to date on local news
- Allows inclusion of files and links
  - E.g. Ohio EMSC Training Bundle funding opportunity

## News

### Search News

Search for words, phrases, people or places.



#### Ohio EMS for Children Training Bundle

posted Sept. 14, 2020 Notice of Funding Opportunities

2020 Application The Ohio Emergency Medical Services for Children (EMSC) Committee, a subcommittee of the ...



#### How the COVID Pandemic is Impacting Children

posted Sept. 13, 2020 Conferences and Events

Series 1 of 4 focusing on child health and wellness ASPR TRACIE and ASPR's Pediatric ...



#### Firehouse Expo

posted Aug. 28, 2020 Announcement

Call for Papers The 2021 Call for Papers for the Firehouse Expo 2021 is now ...

# Resource Library

- A selection of diverse materials
  - Simulation plans and skills checklists
  - PECC background information
  - Pediatric focused EMS literature
  - Funding opportunities
  - Events information
- Box Account
  - Ability to download resources
  - Ability to upload local resources to share with colleagues

# Resource Library

## Resource Library

The Ohio PECC Library section includes pediatric training information provided by Ohio's pediatric hospitals, as well as updates on various issues in pediatric emergency care. This section also includes an opportunity for you to share materials with your fellow PECCs across the state. The materials are divided by topic area, and are labeled in folders with the topic area listed.





Resource Library

SUBMIT RESOURCES [↗](#)



Ohio PECC Resources

Download

Name ▾	Updated	☰ ☲ ☱
 Simulation	Sep 1, 2020 by Gabrielle Basi...	
 PECC Background Information	Aug 27, 2020 by Julie C. Leon...	
 Funding Opportunities	Sep 16, 2020 by Gabrielle Bas...	
 Events Information	Sep 14, 2020 by Gabrielle Bas...	



# Crew's Quarters

- Directory
  - Searchable directory of PECC's contact information
- Facebook
  - Closed Facebook group to facilitate discussion between PECCs

## Crew's Quarters

The Ohio PECC Crew Quarters section contains a list of PECCs registered in Ohio and a link to an online forum where you can communicate directly with other PECCs on any topic to aid in improving pediatric emergency care. This forum allows you to share best practices and ask questions on current issues in a secure site, and get answers from others doing the same job you are.

Directory				
County	Agency	Agency ID	Contact	Email
Adams	Adams County EMS	01-E001	Linda Steele	<a href="mailto:linda.steele@adamscountyoh.gov">linda.steele@adamscountyoh.gov</a>
Adams	Manchester Fire-Rescue-EMS	01-005	Marla Striblen Kirk	<a href="mailto:mkirk.mfd@gmail.com">mkirk.mfd@gmail.com</a>

## Facebook

Please join the Ohio Pediatric Emergency Care Coordinators Facebook group! This is a place for collaboration and an opportunity to connect with PECCs outside of your region. It allows news sharing, discussion among Ohio PECCs, and a platform to discuss improving pediatric emergency care throughout the state of Ohio.



# Contact

- Members can submit resources, provide feedback, or contact webpage management team with questions
- Request types:
  - News/ Announcement
  - Calendar Event
  - Resource
  - Other

# Contact

## Contact

Please contact us with new PECC opportunities or news that you would like to be published on this website!

Name\*

Email\*

Organization\*

Phone

Request Type\*

General Feedback

Request Description\*

Please give a brief, detailed description of your request

File Upload

Choose File No file chosen

Max Size: 10 MB

- Ohio PECC Members' Area
- Calendar
- News
- Resource Library
- Crew's Quarters
- Contact



# Questions?

**Julie C. Leonard**, MD, MPH

EMSC State Partnership Grant Program Director

Nationwide Children's Hospital

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**Gabrielle Basinski**, BA

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[Gabrielle.Basinski@nationwidechildrens.org](mailto:Gabrielle.Basinski@nationwidechildrens.org)

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