Our Purpose



Improve the Care for Children through Education



Pediatricians and Pediatric Specialists



Hospital Staff



Children



Prehospital Professionals



Parents and Family

And more...

PPPN learning ecosystem

An evidence-based, effective approach to education by **using a variety of tools and platforms** to meet learners where they are in terms of:







Educational Leveraging PPN platforms and partner platforms, our domain will help you strategize the best way to publish Publishing your resources for broad access and sharing. Expert Our design team consists of experts in medical education, instructional design, open access, accessibility, etc. all Consultation eager to consult on your project. Resource Our development team consists of instructional designers, videographers, medical illustrators, etc. with Enhancement the skills to enhance your products. Microlearning From interactive video to branching scenarios, we can help you build short and complete learning experiences Development that are easily shareable. Macrolearning We are here to help you strategize, design, develop, implement, and evaluate comprehensive learning Development

experiences and distribute them nationally.

PPN Learning Ecosystem: Platforms

- PPN Learn
- PPN Continuing Education Platform
- PPN Resource Central
- PPN MicroLearn
- PPN Analytics



Purpose

A learning management system and catalog where all PPN created learning products are hosted. It allows creation of public or private courses, cohorts, collaboratives, forums, assignments, videos and many other activity types.



science; Faculty development

Cohort (3)

PPN Continuing Education

Purpose

A platform for coordinating the application for issuing and earning CE for physicians, nurses, social workers, and EMS professionals.



PPN Resource Central

Purpose

A resource database aiming to index high quality and trusted resources on PPN platforms and



Earthquakes happen quickly and can result in significant damage to property and people. PPN's Resource Central has links to information that may be helpful for families to know what to do before, during, and after an earthquake event.

Search the Resource Central website for more resources with the term "Earthquakes" for more information.





This collection provides resources that offer free continuing education credits for various professions. Each resource page notes th type of continuing education credits offered and any credit expiration date. Where applicable, credits offered directly by the PPN an clearly noted. Through these resources, healthcare professionals can receive credit while preparing to provide high-quality pediatri care in everyday emergencies, disasters, and global health threats. This collection is maintained by the Pediatric Pandemic Network For questions related to continuing education at the PPN, reach out to ce@pedspandemicnetwork.org.

Search keyword, ex. N	Norovir	nis	Search
Sorted by Relevance $$			
Search Filters		1-10 of over 20 results	C Previous Next >
FOCUS AREA		Key Planning Factors and Considerations for Perio	once to and Recovery
Everyday Emergency		from a Chemical Incident Continuing Education	onse to and Recovery
Natural Disasters		Eederal Emergency Management Agency (FEMA)	
Trauma			
Infectious Disease	180	This PEMA course is about planning for chemical incidents. It describes in recover from such events. The focus is on education	mportant steps to respond and
Severe Weather		B Around County on	
Violence		· · · · · · · · · · · · · · · · · · ·	
CORNE	(2)	Impact of Climate Change on Rediatric Health Car	
Infrastructure Failure	00	1022 American Deced of Dedation	•
Mental Health		2023 - American Board or Pediatrica	
		The American Board of Pediatrics has partnered with pediatric subject in	natter experts to provide this
EMERGENCY MANAGEM	ENT	maintenance of certification (MOC) part 2 article-based set-assessment,	oped Policy
STAGE		Access Module IN	
Preparedness (Prevention /	- 26		
Protection)		IS-368.A: Including People With Disabilities in Disa	ster Operations
Recovery		2023 - Federal Emergency Management Agency (FEMA)	
Response		The course IS-368.A is about including people with disabilities in disaster	operations. It describes how to



This resource addresses the emotional needs of children and how to meet them in the event of an earthquake, providing

Earthquake Resources

Languages. This page provides links to extensive infographics and booklets promoting

Earthquake Country Alliance (ECA) and ShakeOut Documents in Mariy

This YouTube channel from ShakeOut coricains videos and PSAs related to the Great ShakeOut Earthquake Drifts.

Mitigation . ensure that emergency plans and responses consider the needs .

PPN MicroLearn Platform

Purpose

A flexible authoring platform for creating rules-based chatbots enhanced by generative AI. Chatbots may be programmed to provide an adaptive and personalized curriculum as well as behave as an open ended generative resource assistant. **Web, SMS, WhatsApp, Teams are all available channels.**

k aRCie		
 Hi, I'm aRCie, a Resource Cent My responses come from the Before we get started, just a r If you are experiencing a med 	tral Chatbot! I provide per approved Resource Cen reminder that this chat is dical emergency, please	rsonalized responses to your resource questions. Itral database, so rest assured! Al generated, <i>mistakes</i> are possible. call 911
Jan 22, 1.32 PM		
💬 How can I help you? You can 🙀 Here are some examples bel	ask any question relevan ow 🛃	t to the content in PPN Resource Central.
How can I teach my child what t	o do in an earthquake?	How can I help prevent illness in schools?

PPN Learning Analytics

Purpose

A centralized hub for tracking analytics dashboards for learning outcomes and usage integrated with PPN analytics portal to measure behavior change/organizational outcomes.



PPN Learning Ecosystem: Products



Bookmark this site







New episodes drop every other week on Tuesdays.

Disaster Medicine Modules



Target Learners: Community-based pediatricians and pediatric residents



Family-Centered Care Microlearning



Interventions That Improve Patient Outcomes





EMSC Mission: to reduce child and youth mortality and morbidity resulting from severe illness or trauma

EMSC Vision: no matter where a child lives—the health systems in their area will provide quality emergency care services



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High levels of Pediatric Readiness in EDs are associated with the potential for:







reduction in racial and ethnic disparities in mortality⁴

and only cost between \$4-48 per patient.



The Power of PECCs:

Designating individuals as pediatric emergency care coordinators (PECCs), or pediatric champions, in EMS agencies and EDs is the best way to increase readiness.

90% of 35 million visits to GEDs < 10 children per day, alongside adults

Educational Strategies: Retention





EMSC RELATED ACRONYMS

Listed here are acronyms you may see in reference to EMSC-related projects, publications, and resources.

Last Updated: August 5, 2024

A | B | C | D | E | F | G | H | I | J | K | M | N | O | P | R | S | T | U | V | W



А

AAA: American Ambulance Association ☑
AAFP: American Academy of Family Physicians ☑
AAMS: Association of Air Medical Services ☑
AAP: American Academy of Pediatrics ☑







PEAK: Status Epilepticus



PEAK: Suicide



PEAK: Pain



PFAK. Aditation

PFAK. Child Ahuse

PFAK· Multisystem Trauma

Bookmark this site



2012-2019 ImPACTS

IMPROVING PEDIATRIC ACUTE CARE THROUGH SIMULATION

Aim: improve pediatric readiness over 6 months





Outcomes: Readiness + Sim/Clinical improvements

	Pre-PRS	Post-PRS (6 months)	
Connecticut (n= 12 EDs)	64+/-4	77+/-4	p=0.022
Indiana (n=10 EDs)	58 +/-5	75+/-3	p=.009
19 Academic (n=34 EDs)	62+/-2	79+/-2	p < 0.001

Effective

BUT...

Expensive



2012-2019 ImPACTS

IMPROVING PEDIATRIC ACUTE CARE THROUGH SIMULATION

Aim: improve pediatric readiness over 6 months





IMPROVING PEDIATRIC ACUTE CARE THROUGH SIMULATION



Aim: To improve care and reduce disparities in outcomes for critically ill/injured children in underserved communities across the US through a Scalable, Pragmatic, Collaborative, Simulation-based Intervention





Texas: 29 Regional-PECCs, 264 hospital PECCs, 353 simulations, 2943 frontline healthcare providers

Michigan: 20 Mentors, 89 hospital PECCs, 115 simulations, 433 frontline healthcare providers

Collaborations: ENA, EMSC, PPN, Indian Health Services, SEMPA, Health systems (AK, UT, CA, WA, IN, MO, NY, NC, FL, OH, GA





Low technology mannequin

Monitor computer Equipment

PECC: Pediatric Emergency Care Coordinator

- Nurse +/- Physician
- Responsible for overseeing pediatric specific activities
 - 1. Provides pediatric perspective to ALL work
 - 2. Pediatric specific quality improvement
 - 3. Ensures pediatric skills of staff
 - 4. Ensures availability of pediatric equipment, supplies, meds
 - 5. Develops/periodically reviews pediatric policies/procedures

*** ROLE FOR PEDIATRICIANS/PEDIATRIC DEPARTMENTS***



- **Problem**: PECC designation is low, many lost to COVID
- **Gap**: implementing/sustaining PECCs is challenging, virtual sims
- **Hook:** PECCs need support (simulation/education/improvement)



IMPROVING PEDIATRIC ACUTE CARE THROUGH SIMULATION



Aim: To improve care and reduce disparities in outcomes for critically ill/injured children in underserved communities across the US through a Scalable, Pragmatic, Collaborative, Simulation-based Intervention







Engage hospital leadership buy-in

Recruit/Engage PECC(s) RN/MD/APP

PRS in person

Simulations increased independence

Improve readiness increased independence







Pediatric Emergency Care Coordinator (PECC) Modules



Target Learners: Community hospital-based medical professionals Emergency Department PECC Module Series

Learn more about pediatric emergency care coordinators(PECCs)/pediatric champions in the ED and how they impact each domain of pediatric readiness. Certificate of completion available for each module.



Module 1: The Pediatric Emergency Care Coordinator

After completing this module, you will be able to identify best practices for pediatric readiness and improve your knowledge on the role of a PECC.



Module 2: The Role of the Pediatric Emergency Care Coordinator and Pediatric Readiness 🗹

After completing this module, you will be able to identify the pivotal role of the PECC in assessing Pediatric Readiness, as well as data and research around the impact of PECCs.



Module 3: PECC Models and Best Practices 🗹

After completing this module, you will be able to describe PECC models and best practices.



We empower hospital PECCs to become self-sustaining and continue this work long-term

Stage 1 (Forming)

- PECC Designated (Identified)
- PECC Completes Introduction to Pediatric Readiness Modules
- NPRP Assessment Completed
- (Gap Analysis Reviewed)
- Facilitated 1 Simulation
- Action Plan Created
- PECC joined Zulip

Stage 2

(Storming)

- Stage 1 Completed
- Co-Facilitated 1 Simulation with the PECC
- Identify a Gap Discussed in a Sim Debrief and Complete an Item from the Action Plan
- · SMART Aim (for PRS & Sim)

Stage 3 (Norming)

- Stage 2 Completed
- PECC Facilitating Simulations (PRISM Observing Remotely)
- Complete action item with SMART Aim
- PECC Attending (or Reviewing) 75% of Monthly Check-Ins

Stage 4 (Performing)

- Stage 3 Completed
- 2 NPRP Assessments Completed (with Improved Score)
- C-Suite Presentation (Self-Efficacy, not as PRS focused)
- Self-Sustaining Action Items with SMART Aims









SimBox+ Free online simulation for everyone.



Last 365 days 15, 572 (12,866 in US): TX 3,790, MI 928

450 PECCs-- PECC mentors in every TX trauma region





E: first.last@txena.org W: https://txena.org/texas-pediatric-readiness-improvement-project/

162 UZCI BSDY



Age	Weight (kg)	Pulse	Resp	Systolic BP*
Newborn	3	100 - 180	30 - 60	60 - 70
6mos	7	100 - 160	30 - 60	65 - 80
1 yr	10	100 - 140	24 - 40	72 - 107
2	12	80 - 130	24 - 40	74 - 110
3	15	80 - 130	24 - 40	76 - 113
4	16	80 - 120	22 - 34	78 - 115
5	18	80 - 120	22 - 34	80 - 116
6	20	70 - 110	18 - 30	82 - 117
8	25	70 - 110	18 - 30	86 - 120
10	35	60 - 100	16 - 24	90 - 123
12	40	60 - 100	16 - 24	90 - 127
14	50	60 - 100	16 - 24	90 - 132
15+	55+	60 - 100	14 - 20	90 - 135









Mission of IHS EMSC Hybrid Simulation Program:

- Optimize the capacity of IHS to provide pediatric emergency care to AI/AN children and youth
- Create, implement and evaluate hybrid simulation training program for interdisciplinary IHS teams







Severe Head Injury

Respiratory Distress







Non-Accidental Trauma

Abdominal Trauma

The Booklet: Teaching Content & Flashcard



PECC Activity Dashboards

New Am	nerica Hos	pital										Alexar	nder Hamilto
				View	Your	Sp	readsheet	ł					
	Ac	tivity Log								Simulat	tions	S	
Date 🔹	Activity				Hours		Date	Simu	ulations				Participant
Jan 8, 2025	Facilitated Simulatio	n with Frontline St	aff		1.5		Jan 8, 2025	Bron	chiolitis/F	Respiratory Dist	ress		5
Dec 20, 2024	Reviewed hospital d	lisaster policies			0.75		Nov 22, 2024	Alter	tered Mental Status				4
Dec 8, 2024	c 8, 2024 Completed PRS assessment				1		Nov 19, 2024	Fuss	ussy Baby				2
Dec 4, 2024	4, 2024 Watched EIIC PECC Module				2		Nov 15, 2024	Seizi	Seizing Infant				4
Dec 3, 2024	3, 2024 Discussed Peds Readiness with Nurse Manager				0.5		Nov 15, 2024	Fuss	Fussy Baby				4
Nov 22. 2024	Show to NC				1		Nov 15. 2024	Othe	r				5
	Tota	al PECC Hours	3				Tota	I Sim	ulation	s		Total Parti	cipants
		38.25						1	1			66	
	Hos	pital Depar	tment C	ontacts	\$					Pediatri	c Re	eadiness	Scores
Department	Contact		Phone	Em	ail ab avatte	aha	anital adu		10)		82	85
Chief Numine Of	ator Marquis		(555) 000-0	CCC	gn.ayelle	e@no:	spital.edu	-	7	76 		02	
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Pharmacy Direct	tor							-	2	5			
PICU Manager								-) ———			
Emergency Man Peds Social Wor	ager(s) rker							-		Oct 15, 2024	1 (Dec 4, 2024 Date MM/DD/YYYY)	Jan 8, 2025
Your PEC	CC Developr	mental Mile	stones							Shar	ed F	Resource	S
EIIC PECC	Modules	SimB	lox		ImF	PAC	TS		N	PRQI		Pediat As	ric Readiness sessment

Get involved

• Contribute

- Develop resources
- Beta-test resources
- Study resources

Implement

- With established "hub"
- As mentor for another "hub"
- Start a new "hub:



Emergency Departments

Empowering staff to learn, develop, and take steps toward making their ED pediatric ready. By leveraging a network of Regional & Hospital Pediatric Emergency Care Coordinators, every ED can implement the best practices and policies to support a long-term commitment to child care.

Inpatient Aimed to assess the education needs and resources available to inpatient pediatric units and hospitals.

Free Open Access Medical Simulations

Utilizing virtual, hybrid, screen-based, and hybrid learning methods, pediatric care trainings take place through a variety of platforms.

Ð

Transport

The ImPACTS Transport project aims to describe, measure and compare pediatric specialty transport teams. Pediatric transport teams from academic medical centers will complete three in situ sims of a decompensating child in their own transport vehicles.

Evaluate and improve delivery room readiness in Level I & II community delivery rooms and

£.

Outpatient

The goal of ImPACTS is to improve the quality of care delivered to acutely ill and injured children whenever and wherever it is needed. Outpatient offices and general pediatricians are often a vital link in the continuum of pediatric acute care required to achieve this goal.

EMS

This is a multi-site educational project addressing performance of EMS teams providing resuscitative care to critically ill children in a simulated setting

Mentors

- Complete an in-person site visit to facilitate inperson simulation exercises to practice teamwork, communication, medical management and assess your ED system of care once a year at each site.
- Complete an in-person Pediatric Readiness Survey (PRS) to identify strengths and gaps in emergency pediatric care once a year at each site.
- Conduct Monthly virtual check in with peds champion to review milestones and provide resources for addressing gaps in pediatric care.
- Partnership with an AMC (optional)

Want to get involved?

Click here to share contact information and someone will reach out with next steps.

Get Involved as a Mentor





Champions

- Work closely with mentor to learn how to facilitate simulations and utilize resource toolkit.
- Recruits ED and EMS participants at their site to participate in simulations.
- Be a part of a community of practice with other pediatric champions.
- Commit to 6 month engagement.
- Commit to one hour per month.

*If this is too much / too little time we will adapt as necessary

Want to get involved?

Click here to share contact information and someone will reach out with next steps.

Get Involved as a Mentor



Figure. Modified formula for survival.

Rainbow Emergency Services Network

Applying readiness to health care systems



Cleveland | Ohio

Rainbow Emergency Services

Our UH EDs cover 9 Counties in Ohio

- Cuyahoga, Ashland, Ashtabula, Geauga, Lorain, Lake, Medina, Summit, Portage
- Rainbow Emergency Services Network
 - Ashtabula, Cuyahoga, Geauga, Lorain and Medina
- PEM providers at Main Campus and SJMC





Level setting for our C-suites:

HIGH > 87 National Pediatric Readiness Scores

High levels of Pediatric Readiness in EDs are associated with the potential for:



lower mortality risk in children^{1,2}



children's lives saved across the U.S. each year³ **3-FOLD**

reduction in racial and ethnic disparities in mortality⁴

and only cost between \$4-48 per patient.⁵



2021 NPRP

- As a system we had an Average NPRP score of **80**
 - This included 2 new hospitals
- This has been 10 years of work
 - Standardizing Pediatric Emergency Care
 - System ED leadership engagement
 - Equipment
 - Education
 - ➢ PECC
 - Standards for Safe Care for Pediatric Patients(protocols)

Cleveland, Ohio | 51

- Quality Assurance/Improvement
- Quality Metrics and PI



Rainbow Emergency Services



University Hospitals Rainbow Babies & Children's



Nursing and Provider Training

- Pediatric education is embedded in Emergency Department education
- All Staff across Community have PALS (EMT-P, Nursing, Providers)
 We maintain above 80% compliance with this across the system
- Embedded in the system Emergency Medicine Quality Network
- Simulation: medical and trauma





Pediatric Emergency Care Coordinators (PECCs)

- Having a PECC in the ED is tied to double-digit increases in pediatric readiness scores
- Significant survival benefits exist <u>at 88 points or above</u>
- PECC is one of the strongest drivers of improved pediatric outcomes
- PECCs are a proven strategy for improving emergency care for children

At University Hospital:

- 2022 started with less than 10 PECCs
- 2023 had about had about 15
- 2024 about 40 PECCs, several sites have created PECC groups that work together.

Cleveland, Ohio | 54



Site	Date	NPRP Date and score	Designation				
RBC	12.5.23	2021=100, 2024 =97	RBC Pediatric Emergency Care &				
			Pediatric Level 1 Trauma Center				
Ahuja	11.10.23	2021=87, 2024=70	Community ED				
Geauga	12.18.23	2021=80, 2023=93	Pediatric Friendly				
Parma	12.21.23	2021=70 2024= 95	Community ED				
West	2.29.24	2021=54 2024=93	Pediatric Friendly				
ST John	3.11.24	2021=90 2024=97.5	RBC Emergency Services				
Portage	3.26.24	2021=77 2024=87	Community ED				
Conneaut	5.20.24	2021=87	Community ED				
Elyria	5.10.24	2021=86 2024=90	Pediatric Friendly				
Geneva	5.20.24	2021=91	Pediatric Friendly				
Samaritan	5.21.24	2021=83	Community ED				
Tripoint	June	2021=54 2024=97	Pediatric Friendly				

A REAL PROPERTY.



