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Research Days

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Pediatric Readiness in the Ambulatory Care Setting

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Ambulatory Setting Emergencies Occur 42 times per Year on Average, Are your providers prepared?

BACKGROUND

- **Emergent presentations in** ambulatory settings are uncommon but can be life threatening
- Many clinicians believe they do not occur
- Most offices are not prepared to handle these presentations:
 - Lack of equipment
 - Lack of protocols
 - Lack of resuscitation skills
 - Lack of awareness, and
 - Reliance on EMS to help
- Studies utilizing traditional simulation showed subjective improvement in office preparedness
- There have been no studies utilizing rapid cycle deliberate practice simulation (RCDP)

GOALS

- Assess perceived preparedness and knowledge gaps of ambulatory pediatric providers
- Identify latent safety threats (LSTs) affecting preparedness by combining simulation based clinical system testing (SbCST) with RCDP concepts.

The University of Kansas



METHODS:

www.survey.hos	pital/peds.com/Kfftp//334857	
	✓	_
		
	\checkmark	



Category Respiratory Dehydratio Sepsis/Infe Behavioral Trauma **Altered Me** Seizures Cardiac Rhy **Cardiac Arre**

Opportunities: Strengths: 59% Novice or Advanced Competent, 98% **Proficient or** Beginner Expert Breathing/Ventilation Establish **NEXT STEPS:** Assessment **Peripheral IV** Oxygen Assessment Access & Use of Pulse **Establish Vascular** Oximeter Access via IO Circulation Assessment



Cross-Sectional Electronic Survey 31 Questions

68% **10⁺ Years** Provider Experience

Multiple Facility Types & Provider Disciplines

- General pediatrics
- Family medicine
- Urgent care

Figure 1:

Most Common Presentations Requiring Transfer: Ranked Highest (1) to Least (9)

Rank
1.51
3.07
4.05
4.74
5.12
5.37
5.49
7.07
8.52

RESULTS:

Participants answered questions related to emergency treatment by most common type (Figure 1) and frequency (Figure 2), as well as assessing their own comfort level and proficiency in treatment of specific conditions.

In rating educational needs, 73% of participants (24/33) selected Respiratory Distress/Failure as the top priority, where only 15% (n=40) rated themselves as expert (Figure 3). Strengths and opportunities for learning were identified (Figure 4).

Among the various teaching methods, Virtual Interactive Case Studies was most preferred, with 86% (n=43) of participants agreeing (Figure 5).



Figure 4:

Kevin Meilak, MD FAAP; Emily Cramer, PhD MA BA

Figure 5: Effective Learning Methods (Agree Strongly or Somewhat)



Data analysis will continue. Outpatient practices are being recruited to participate in SbCST and a RCDP simulation on respiratory distress. An observational form will be utilized by simulation staff to note any LSTs observed. • LSTs and solutions will be sought from staff Post-simulation survey for feasibility & utility • Qualitative data: Inductive, thematic approach

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