

# The Development of a Pediatric Pain Resource Nurse Program: A System-level Intervention to Enhance Nursing Education and **Pediatric Pain Management**









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# Background

Pain is recognized as a **global health** crisis with profound physical, emotional, and societal impact.

Nurses serve as **educators**, collaborators, and advocates, disseminating crucial information about pediatric pain management best practices to patients, families, and other healthcare professionals.

By enhancing a culture of awareness and collaboration, nurses can help ensure every child receives compassionate and effective pain management.

In 2022, C.S. Mott Children's Hospital (Mott) became the **first** ChildKind certified hospital in Michigan, pledging a commitment to children's pain relief and prevention.

# **Clinical Question**

Compared to standard nursing knowledge, does implementing a **Pediatric Pain Resource Nurse** (PRN) Program at C.S. Mott Children's Hospital impact inpatient pediatric nurses' knowledge and attitudes toward pain?

# **Literature Review**

Nurses must be equipped with upto-date pain knowledge and skills, and have an awareness of how personal attitudes, beliefs, and cultural sensitivity can influence the delivery of patient care.

PRN programs engage nurses to assume an active role in pain management.

Interprofessional pain education (IPPE) is critical to **translating** effective pain care knowledge and attitudes into healthcare systems.

An IPPE curriculum empowers healthcare professionals to transform organizational culture by encouraging interprofessional collaboration and dissemination of evidence-based practice.

# **Design and Methods**

# **Program Implementation Timeline**

March 2022 Pediatric PRN Program Planning Workgroup Established







# **March 2023** Session

**Cohort Two** Attended **Education and** Orientation

# **Mott Pediatric PRN Program Design**

#### **Foundational Pain Education**

- IPPE-based education and orientation session curriculum
- Pre/post-test administration

Program

#### **Evidence-Based Practice Review**

• Pediatric pain experts review and present content to PRN cohorts during monthly meetings

#### **Dedicated Non-Staffing Time**

• Each PRN receives a minimum of 4 hours of dedicated program work time within their monthly appointment

#### **Executive** Leadership **Presence**

• ACNO, Staff Specialist, and Pain Management Coordinator actively participate in all program meetings

**Executive Level** 

#### Continuous **Improvement**

- Each PRN receives quality improvement (QI) education
- Ongoing QI support is available

## **Primary Outcomes**

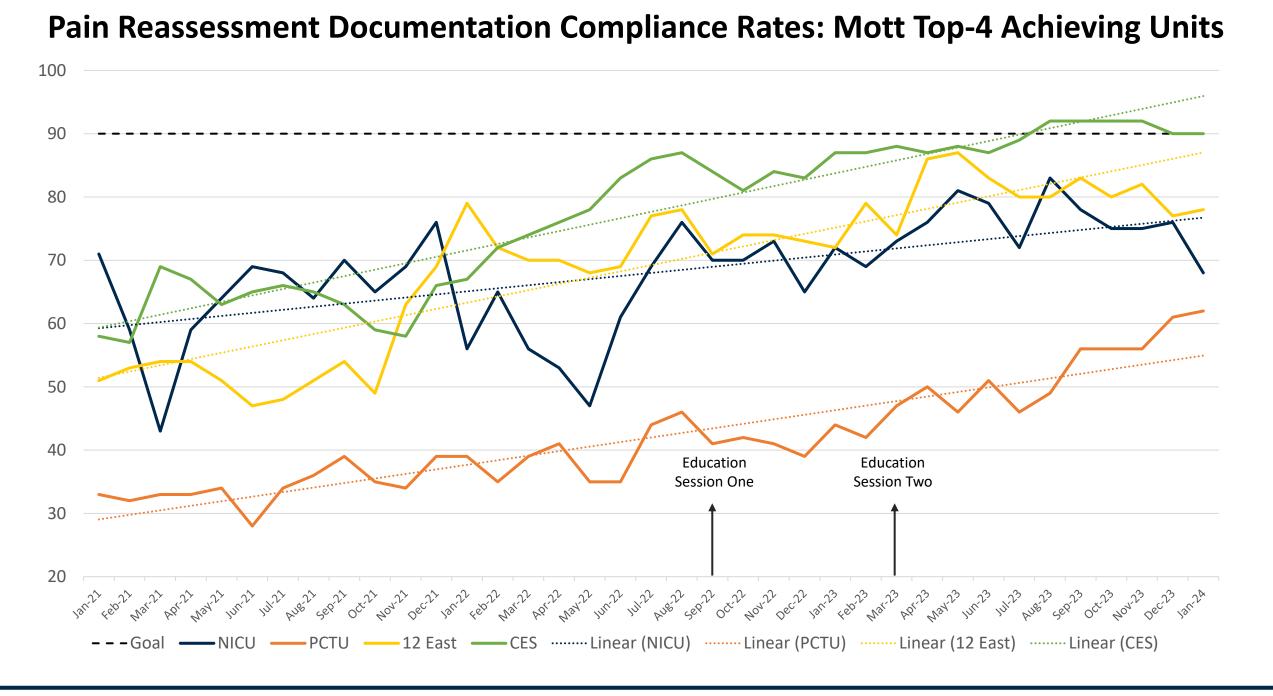
### **Pre/Post Education Intervention Assessment Tool**

Pediatric Healthcare Provider's Knowledge and Attitudes Survey Regarding Pain (PHPKAS)

Composition	<b>Frontline Nurses</b>		<b>Unit Level Leaders</b>		Leaders		<b>Total Participants</b>		
Cohort One	23		4		4		31		
Cohort Two	15		15		0		30		
Cohort One PHPKAS		Sample Size (n)		Range Scores		Mean Score			
Pre-Test (Time 1)		25		59-93	3%	789	%	4% Increase in	
ost-Test (Time 2)		14		63-93%		829	%	Mean Score	
<b>Cohort Two PHPKAS</b>		Sample S	Size (n)	Rang	e Scores	Me	an Score	•	
Pre-Test (Time 3)		32		54-85	5%	729	%	2% Increase in	
Post-Test (Time 4)		26		59-93	3%	749	%	Mean Score	

# **Secondary Outcomes**

Mott has experienced an increase in pain reassessment compliance as evidenced by nursing documentation rates.



# Inpatient Pediatric: How well was child's pain addressed? All PG Database — How well child's pain addressed Session Two 10/1/2022 12/31/2022 Discharge Date n=115 Peer Group Size

**Press Ganey Patient Experience Survey Question** 

Additionally, in the months after the introduction of our cohorts, Mott has observed improvement in patient experience survey results as measured by Press Ganey.

#### Conclusion

Nursing leaders at Mott have achieved the following outcomes via a strategic program implementation effort and purposeful engagement of frontline nurses:

- 1. Enhanced pediatric pain management knowledge and attitudes following the introduction of an IPPE-based curriculum
- 2. Increased compliance in pain reassessment documentation
- 3. Positive trends in patient experience survey results
- 4. Improved cross-unit collaboration and problem-solving

## **Future Considerations**

The following will be explored as opportunities for continued program optimization:

- 1. Ongoing needs assessment of frontline nursing education with structured education and training provided by content experts and communicated to frontline nurses by Mott PRNs.
- 2. Enhance cross-unit collaboration to facilitate the exchange of best practices aimed at segment-level improvements.
- 3. Task force creation based on PRNidentified priorities and creation of specific program-initiated targets and tactics to enhance overall patient experience and clinical outcomes.

# Acknowledgments

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# References

Please scan the adjacent QR code for a complete list of references used in the creation of this evidence-based nursing intervention.

