

# Paediatric Project ECHO: Assessing the Educational Needs of Healthcare Providers Related to Management of Paediatric Pain



Other

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## Background

#### What is Project ECHO?

"Extensions for Community Healthcare Outcomes"

Innovative model for medical education that expands access and capacity to provide evidence-informed care.

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Patients need access to specialty care for their complex health conditions	There aren't enough specialists to treat everyone who needs specialty care, especialty in rural and underserved communities	Paediatric Project ECHO aims to provide mentorship and collaboration with clinicians and multidisciplinary teams on how to provide specialty care	More patients get the right care, at the right time, resulting in improved outcomes and reduced costs

## How does the ECHO model work?

Hub-and-Spoke structure virtually connects an interprofessional team of specialists at an academic "Hub" to community healthcare providers called "Spokes".



#### Paediatric Project ECHO for Pain

SickKids Medical Leads: Fiona Campbell Jennifer Tyrrell	TeleECHO Clinics (Bi-monthly) Didactic + Patient case presentation + Best practice recommendations
	Core Competency (8 weeks) Interactive lectures on essentials of paediatric pain management
	Boot Camp (2 days) In-person, hands-on workshop

## Program Roll-out

**Phase 1:** Focused on training newly created paediatric pain centres in Ontario.

**Phase 2:** Focused on training primary care providers practicing in medically underserved communities of Ontario.

## Objectives

In preparation for program launch (October 2017), an **educational needs assessment** was conducted to:

(1) Inform the pain-specific ECHO curriculum;(2) Assess community healthcare provider preferences for program format.

## Methods

Online survey (49 items; 15-minutes) distributed via REDCap.
Targeted emails to professional networks, associations, and

- allied health organizations related to pain throughout Ontario.
- Survey was live from May 25, 2017 August 7, 2017.
- Respondents rated level of interest in specific topics using individual Likert scales ranging from 1 ("not interested") to 5 ("very interested").

## Results

#### Participants

Table 1. Professional breakdown of respondents, N=35

Group	Profession	# Respondents
Allied Health (34%)	Physiotherapist	2 (6%)
	Pharmacist	1 (3%)
	Psychologist	2 (6%)
	Occupational thearpist	1 (3%)
	Social worker	2 (6%)
	Dietitian	4 (11%)
Nursing (34%)	Registered nurse	7 (20%)
	Nurse practitioner	5 (14%)
Physicians (26%)	MD (specialist)	5 (14%)
	Paediatrician	4 (11%)
Other (6%)	Other	2 (5%)
	Total	35 (100%)

#### **Results** (Continued) Figure 1. Practice setting of respondents, N=35 Figure 2. Practice environment, N=35 Remote Family Health Team 2.9% Aboriginal Health Rural Access Centre Suburban/Urban Private Practice Community Health Cer Figure 3. Core competency format Othe preferences, N=35 Non-acade 1-hour weekly Hospita Academic Hospital 2 hours weekly 15 20 25 30 4 hour workshops % of Respondents

Table 2. Identified education topics of interest for Paediatric ECHO curriculum

Educa	ation Category	xample Topics			
Introd	ductory & Overview Topics	Neurobiology and epidemiology of pain Interdisciplinary approach to pain assessment and treatment			
	Types of Pain	Musculoskeletal pain* (4.37) - Inflammatory pain Headache - Neuropathic pain - Sickle cell pain Sickle cell pain - congenital disorders			
A	Assessment and Measurement	Acute pain Chronic pain - Special considerations (e.g. infants, non-verbal child)			
ent	Pharmacological	Overview/guiding principles - Adjuncts - Cannabinoids - Cannabinoids - Opioids - NSAIDS			
3P's of Pa 1anagem	Physical	Physical assessment - Graded motor Guiding principles of imagery - Desensitization rehabilitation approach - Use of heat/cold - Modalities (e.g. acupuncture, massage)			
2	Psychological	Mental health assessment Mindfulness* (4.25)         Mind-body techniques* (4.34)         Acceptance and commitment therapy* (4.25)			
Spec in	cial Considerations Pain Treatment	Palliative care Ethical considerations			
A	dditional Topics	Intensive paediatric pain rehabilitation programs - Educational resources for patients and families** (4.25)			
*Тор	*Top 6 most popular topics with average Likert score in parentheses				

Conclusion and Next Steps	Join Us!
<ul> <li>Data were used to inform curriculum development.</li> <li>Paediatric ECHO for Pain launched in October 2017 and has</li></ul>	Paediatric Project ECHO is <b>free</b> for all healthcare
completed 15 TeleECHO clinics and 1 core competency as of	providers in Ontario and is <b>CME-accredited</b> .
May 2018.	Specialties offered: $\underbrace{\begin{subarray}{c} \begin{subarray}{c} \begin{subaray}{c} \begin{subarray}{c} \beg$
<ul> <li>Program evaluation research focuses on implementation and performance-related outcomes.</li> </ul>	Care Care Care Care Care Care Care Care
3 Year Demonstration Contario	Other Ontario ECHOs,
Project Funded by: MINESTRY OF HEALTH AND LONG-TERM CARE	including adult chronic pain: http://www.echoontario.ca