Improving Pain Outcomes for Kids & Families: from Global Initiatives to Practical Tips

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Co-chair Canadian Pain Task Force



Pain ECHO Education Event (E3); March 2021







Declaration of Disclosure

I have no actual or potential conflicts of interest in relation to our presentations









Learning Objectives

By the end of this talk participants will be able to...

Explain

chronic pain context, and why it matters

Describe

global & national initiatives to improve pain outcomes in kids

Use

tips and access resources to make pain better







Mapping one family's experience with pain



Pain (migraines) worsen after dental surgery

'Our family

felt abandoned

by the system'

Loss of

connection

"I later found an online social

network existed for kids in-hospital,

but out-patients were not included,"

social

Focusing on living with pain vs. pain improvement

🕽 school board

up with his

"An education program that allows flexibility is

education

everything,"

worked with us

to help him keep

Co-authored a scientific paper

Taking the extra Grade 13 year

The Future

What does it look like?

New symptoms

"Grade 7 would be his last year at school,"

cropped up

🕟 Increase in pain year over year

17

뙗

no referrals no resources no care options

"Check back in a month, if things are not

🦳 Children's Wish Foundation (Shark Tagging)

Certificate

O "I don't have an answer,"

"Were

going in circles"

neuro-ophthalmologist

Completed Marine

Biology course,

Vancouver

Aquarium

Joint pain started

Check back in a month, if things are not better."

O "I don't have an answer,"

neurosurgeon

Transition

to Adult Care

We felt like there was a bigger issue going on"

Required travel to access care

"There's no where close to home to get the care we needed,"

> Took a long time to see a neurologist

symptoms How it Began

"Check back in a month, if things are not better,"

(migraines) after surgery

Pain episodes not looked at as "connected" "We felt that they could have been treated together,"

Pain without a clear diagnosis

O"I don't have

an answer,

4 different

pediatricians

O "I don't have

"That really hurts" and the nurse said. "No it doesn't."

Perception of his pain not acknowledged or addressed

"A factor that still effects him today,"

6 歰

🐧 Began to use

wheelchair to

manage pain

10 Began to see a pain psychologist

"Only able to access because we had the financial means for it."

10 Pain (migraines) worsened



partneringforpain.com

for the incredible contribution of shared experience from patient partner Zach, and his mom Isabel.













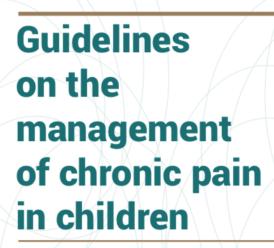
"Pain is an unpleasant sensory and emotional experience associated with, or resembling that associated with, actual or potential tissue damage or describe in terms of such damage." (IASP)

Acute pain - symptom of tissue harm; protective

Chronic Pain - persists or recurs for >3 months; not protective

International Classification of Diseases (ICD-11)

- Chronic primary pain
- Chronic secondary pain
 - Chronic cancer-related pain
 - Chronic postsurgical or post traumatic pain
 - Chronic secondary MSK pain
 - Chronic secondary visceral pain
 - Chronic neuropathic pain
 - Chronic secondary headache or orofacial pain
 - Chronic pain unspecified

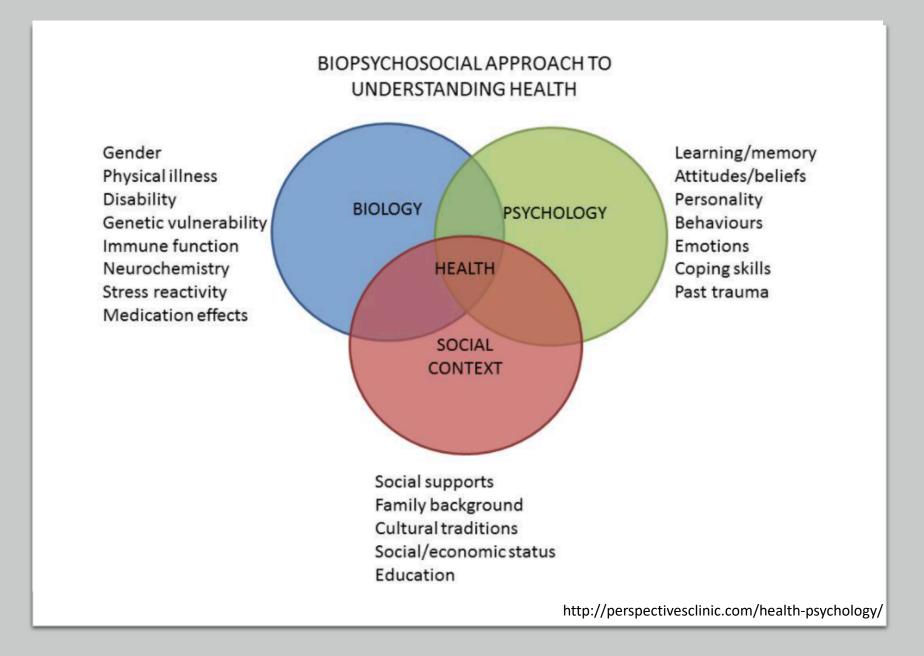




Common chronic pain diagnoses in Children

Pain Sites	Prevalence (Range)	Age differences	Sex Differences
Headache	8-82.9%	Older>younger	Girls>boys
Abdominal pain	3.8-53.4%	Younger> older	Girls>boys
Back Pain	13.5-24%	Older>younger	Girls>boys
Musculoskeletal/limb pain	3.9-40%	Older>younger	Girls>boys
Multiple pains	3.6-48.8%	Unclear	Girls>boys
Other/general pain	5-88%	Unclear – possible age X sex interaction	Girls>boys

Chronic Pain – biopsychosocial framework



SickKids

THE SICKKIDS PAIN CENTRE:

UNDERSTANDING PAIN IN CANADA

MORE THAN

100,000 CHILDREN

RELY ON THE LIFE-SAVING CARE PROVIDED AT SICKKIDS EACH YEAR

of these patients will experience some sort of pain during their stay at the hospital.

THE PAIN THAT THEY WILL EXPERIENCE CAN BE CATEGORIZED AS EITHER:

ACUTE PAIN

A pain that comes on quickly, generally caused by some sort of tissue damage or illness; or

CHRONIC PAIN

A pain that persists, despite the fact that an injury to the body might have healed.

While well-managed pain is associated with faster recoveries fewer complications and overall enhanced patient care...

1 in 4 children

in Canada suffer from recurring or chronic pain which can be associated with serious disability.

IT IS AN ISSUE CHARACTERIZED BY TWO UNDERLYING PROBLEMS:



Pain is one of the most grossly underfunded areas of health research in Canada.



While chronic pain is associated with the poorest quality of life as compared with any other chronic disease, pain research amounts to only one quarter of one per cent of all ealth-related research in Canada.

INSUFFICIENT KNOWLEDGE TRANSLATION







The majority of health-care professionals are not equipped with the knowledge to manage paediatric pain.

On average, medical students receive approximately 18 hours of pain management training during medical school. By comparison, veterinarians receive closer to 88 hours of ining - fives times more pain education than physicians.

AND IF THE PROBLEM REMAINS UNADDRESSED. IT WILL AFFECT US ALL:



In Canada, chronic pain is incredibly burdensome, consuming more medical resources than any other disease.

The percentage of emergency room visits in Canada where pain is listed as a presenting complaint,

The total health costs and indirect costs chronic pain places on the Canadian economy each year.



Delivering transformative action in paediatric pain: a Lancet Child & Adolescent Health Commission



#4goals4pain

Christopher Eccleston, Emma Fisher, Richard F Howard, Rebeccah Slater, Paula Forgeron, Tonya M Palermo, Kathryn A Birnie, Brian J Anderson, Christine T Chambers, Geert Crombez, Gustaf Ljungman, Isabel Jordan, Zachary Jordan, Caitriona Roberts, Neil Schechter, Christine B Sieberg, Dick Tibboel, Suellen M Walker, Dominic Wilkinson, Chantal Wood



"Paediatric pain should matter to everyone, and cross-sector collaboration is needed to make quick and effective progress"

Commission: Delivering transformative action in paediatric pain

Every child experiences pain. But pain is too often silenced and appropriate relief too infrequently given.

It is time for action.

Make pain matter

We need to improve equity, eliminate stigma, and make pain matter to everyone—health professionals, policy makers, funders, researchers, clinicians, and society at large.





Make pain understood

We need to improve our knowledge of all types of pain across the life course through investment in research. Our understanding must integrate biological, psychological, and social elements.

#4goals4pain

Make pain visible

We need standardised and reliable assessments for pain. Pain status should be determined in every child and treatment decisions driven by a person-centred approach.



We new prevent pain. We effective adoles

Make pain better

We need to avoid unnecessary pain and prevent the transition from acute to chronic pain. We must strive for universal access to effective pain treatments for all children and adolescents.

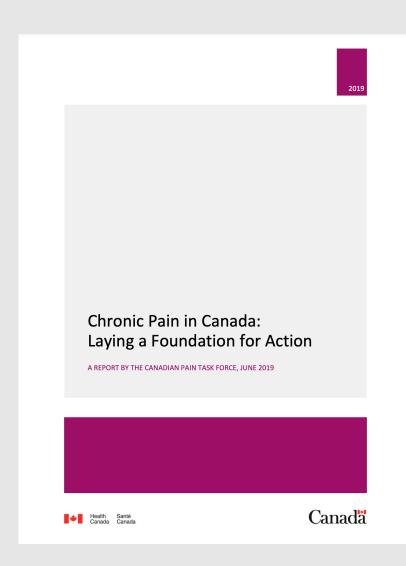
For full details, read the Commission:

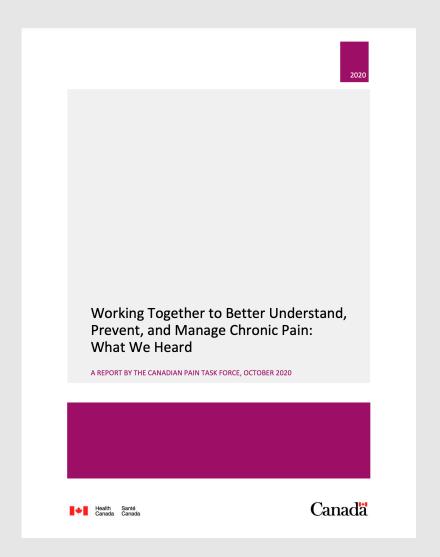
Delivering transformative action in paediatric pain

Canadian Pain Task Force & Expert Advisory Panel



Canadian Pain Task Force





Final Report - March 31 2021

- Provide recommendations on priority actions required to improve the understanding, prevention, and management of pain in Canada
- Prioritize next steps for decision-makers across the country; tangible, practical yet ambitious recommendations
- Hold the government to account

A National Plan for Action on Pain in Canada

Significant, common, debilitating, expensive public health issue

- 1 in 5 children, devastating impact QoL
- o Risk for chronic pain, substance use, mental health later as adults

To address:



Gaps in access to care – 12 pediatric pain clinics in Canada



Public awareness; inadequate education & training



Insufficient research funding / infrastructure - Canada is a beacon in pediatric pain research!



Surveillance and health system quality monitoring – registries; no national surveillance of pediatric pain

Leadership and resources – needed to coordinate, scale-up, speed-up excellent work in these areas, which exist in pockets across the country

A national knowledge mobilization network

Our mission is to improve children's pain management by mobilizing evidence-based solutions through coordination and collaboration

Readiness, Resources and Evidence

Tool production & promotion

Facilitation of change

Urgency & Awareness



Knowledge Mobilization Activities



Opioids and Our Kids National scoping meeting co-hosts SKIP & CFHI

- 20 Diverse stakeholder groups
- Perspectives and needs of patients, caregivers, health professionals, and policy makers
- National environmental scan of existing efforts and evidence

Canadian Foundation for Healthcare Improvement

Fondation canadienne pour l'amélioration des services de santé

OPIOIDS AND OUR CHILDREN EXECUTIVE SUMMARY: EVIDENCE TO ACTION ACTIVITIES, RESOURCES AND RECOMMENDATIONS TO INFORM EFFECTIVE AND SAFE USE AND PRESCRIBING OF OPIOIDS FOR ACUTE PAIN IN INFANTS, CHILDREN AND YOUTH AUGUST 2020 Candian Pauladion for Healthcare Inspersement MANUAL TO THE MERCAN AND PAULADION OF THE MERCAN AND PROPERTY OF THE MER

LES OPIOÏDES ET NOS ENFANTS

RÉSUMÉ : DES DONNÉES PROBANTES À L'ACTION

ACTIVITÉS, RESSOURCES ET RECOMMANDATIONS POUR ENCADRER UNE UTILISATION ET UNE PRESCRIPTION SÛRES ET EFFICACES D'OPIOÏDES POUR LA PRISE EN CHARGE DE LA DOULEUR AIGUË CHEZ LES NOURRISSONS, LES ENFANTS ET LES ADDIESCENTS

AOÛT 2020



Fondation canadienne pour l'amélionation des services de s

Knowledge Mobilization Activities



Pediatric Pain Management Accreditation Standard

Collaborating with Health Standards Organization to develop an accreditation standard for pediatric pain management.





ChildKind International

Recognizes & certifies healthcare facilities that demonstrate institution-wide excellence in assessment, prevention, treatment of children's pain.

SKIP - supporting efforts of institutions to implement



2019-2020

SNAPSHOT

our la douleur chez les enfants

70+ PATIENT 3 AFFILIATE INSTITUTIONS

REGIONAL HUBS

100+ Canadian and International SKIP Partners

27 Media 59 TOOLS & RESOURCES

2000 **SOCIAL MEDIA** followers

Institutions pursuing ChildKind certification

CONFERENCES AND WORKSHOPS

Institutions with pain champions identified and engaged

KNOWLEDGE USERS REACHED 27,000



Mission: Prevent & minimize pain for all children in a family-centered environment by fostering collaboration, excellence, integrity, & innovation between interprofessional teams that integrate clinical care, education, & research. **Membership:** Free for everyone – https://www.sickkids.ca/en/care-services/centres/pain-centre/

Patient Advisory Committee

Clinical Committee (Pain Matters)

 Pain policies & CPGs (hosted on website)

Education / KM Committee

- Kids & Families
- Health Professionals



Research Committee

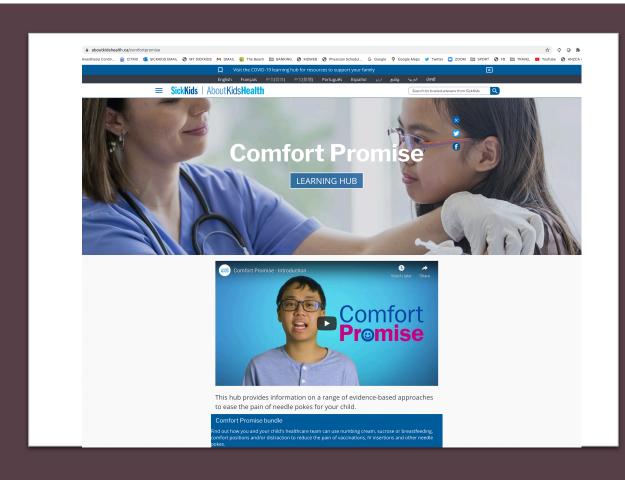
- PICH (Pain in Child Health) Committee;
 research training initiative
- Covid impact on pain

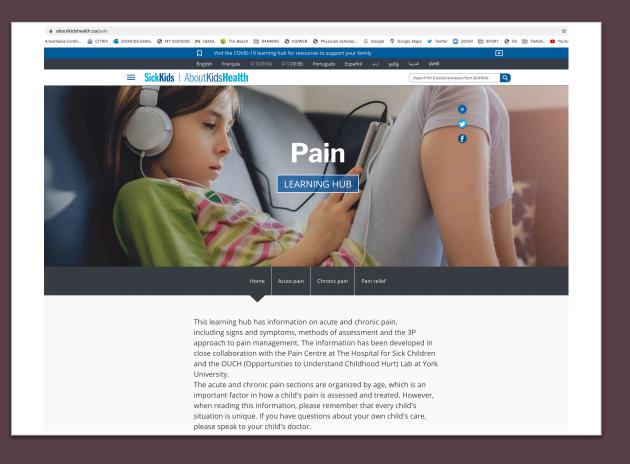
How is COVID-19 affecting youth with chronic pain?

Canadians aged 8 to 18 who live with pain are invited to share their experiences with researchers. Family members are also invited to participate.

https://is.gd/COVIDPainSurvey

Pain Education for kids & families AboutKidsHealth.ca







Save the Date! Conquering the Hurt Conference

Virtual Innovations & Al

November 1st & 2nd, 2021



Pain Centre







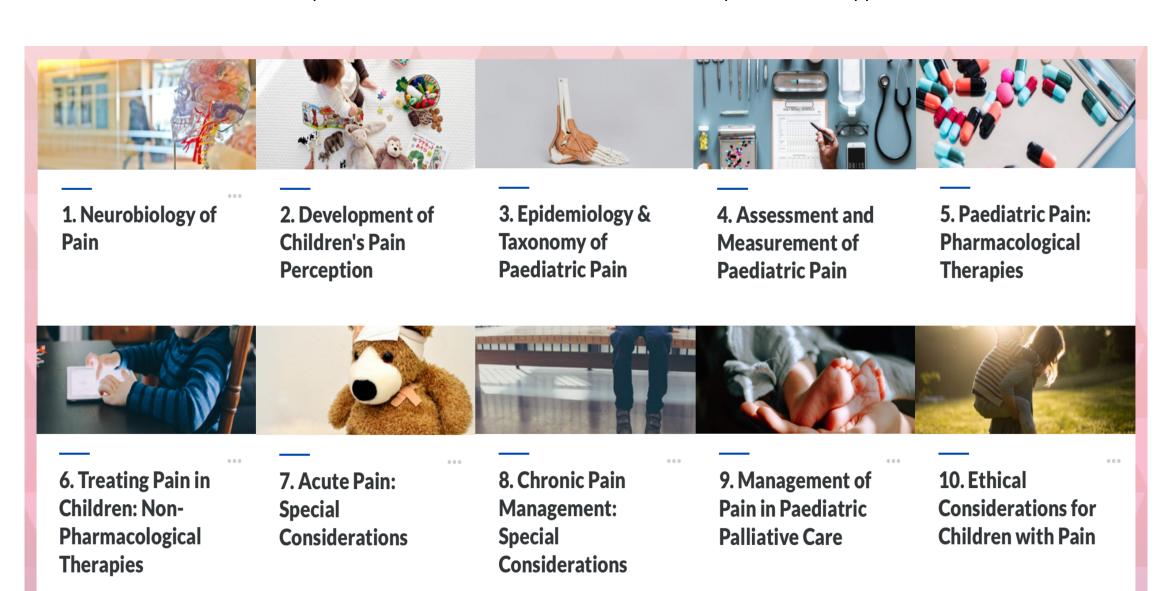






Online Paediatric Pain Curriculum

https://www.sickkids.ca/en/care-services/centres/pain-centre/#oppc



Paediatric Project ECHO

Managing Pain for Children & Youth Fridays 12-1 pm



SickKids LEARNING



https://sickkids.echoontario.ca

Of those surveyed 12 months after joining the program...

participants reported an increase in self-efficacy in 95% of curriculum

84% reported positively in their ability to have a positive professional impact on their

participants reported improved knowledge in 100% of curriculum topics.



Jennifer Tyrrell, CNS

Dr. Lisa Isaac, MD

Lisa D'Alessandro, CNS

Dr. Fiona Campbell, MD

Anne Avling Campos, PT

Dr. Catherine Munns, C. Psych Dr. Danielle Ruskin, C. Psych



Founding Project Lead

Dr. Chitra Lalloo,



Dr. Jennifer Stinson, (5 Upcoming eLearning Modules

- 2. Chronic widespread pain 3. Abdominal pain



Join virtual and accredited* ECHO sessions:



Didactic Presentations

Quick 10—15 minute presentations on paediatric pain topics selected using comprehensive needs assessments and feedback from participants.



Q&A Discussions

An opportunity to ask questions and share additional knowledge.



Case-based Learning

Case discussions among an interprofessional health network garnering multi-modal treatment and recommendations for healthcare providers to consider.



- Therapeutic encounter
- Procedural Pain Prevention
 - Does the intervention need to be done
 - Minimize pain and suffering e.g.
 Comfort Promise
- Biopsychosocial framework
 - Pain Assessment
 - Pain Management

The Therapeutic Encounter

- Warm, friendly manner
- Sit at patient level, engage caregivers, but conduct interview with child
- Active listening, thoughtful pauses
- Convey empathy
 - avoid saying 'I understand' can increase anxiety
 - acknowledge emotional response e.g. 'this must be difficult for you', or 'I am sorry that this has happened to you', but we are here to help...
- Maximize the placebo effect
- BE KIND!

Pain Assessment - QuILT

- **Qu** Quality
- I Intensity (use valid tools)
 - Word scales None, Small amount, Medium, A lot"
 - Number Scale "0" no pain to "10" worse pain you can imagine
 - (NCCPC-R) Non-communicating Children's Pain Checklist Revised
- L Location
- T Timing



Pain Interference

- Physical Functioning
 - Decreased activity levels
 - Impact on pursuit of life goals
- Role/Social Functioning
 - Absenteeism
 - Stress and anxiety related to missed academic work
 - Bullying
 - Isolation from peers
- Emotional functioning
 - Anxiety and depressive symptoms
- Sleep time and quality

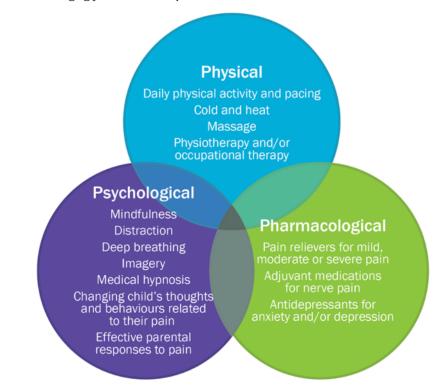


Pain Management

- Believe the patient
- Explain pain provide best-fit diagnosis
 - Diagnostic uncertainty; ask whether they think something is being missed
 - Failure to detect serious tissue harm → reframed as positive
 - Software vs Hardware, Analogies
- Treatment plan tailored to goals
 - Functional rehab model
 - 3P approach
 - Realistic expectations
 - Capitalize on the placebo effect!

<u>Chronic pain</u> treatments involve a mix of psychological, physical and pharmacological (medication) strategies. Together, these are called the 3Ps of pain control. Like three legs of a stool, the 3Ps are complementary, or supportive, to one another.

3P approach to managing your older child's pain



The 3P approach combines psychological, physical and pharmacological strategies to manage pain. Each strategy is described below.

Pharmacotherapy For Chronic Pain:







Take aways...

- Chronic pain common, invisible, stigmatizing, undertreated disease; costly
- Global, national, local initiatives are raising awareness and providing solutions
- Clinical tips
 - Optimize the therapeutic encounter
 - Believe the patient & be kind
 - Prevent/minimize painful procedures
 - Assess pain and its impact using a biopsychosocial framework
 - Use 3P approach to treating pain



Resources

WHO Guidelines on the management of chronic pain in children - https://www.who.int/publications/i/item/9789240017870

Canadian Pain Task Force - https://www.canada.ca/en/health-canada/corporate/about-health-canada/public-engagement/external-advisory-bodies/canadian-pain-task-force.html

Lancet Commission -

https://www.thelancet.com/journals/lanchi/article/PIIS2352-4642(20)30277-7/fulltext?fbclid=IwAR0-0cvz9HeZq--IK6b8gYzStjlDKla0lOri7SUXzXqZyKz3UereosN rOA

SKIP - https://www.kidsinpain.ca/

OPPC - https://www.sickkids.ca/en/care-services/centres/pain-centre/#oppc

Comfort Promise -

https://www.aboutkidshealth.ca/comfortpromise#:~:text=Comfort%20Promise%20bundle,insertions%20and%20other%20needle%20pokes

AboutKidsHealth Pain Learning Hub -

https://www.aboutkidshealth.ca/pain?gclid=CjwKCAiA6aSABhApEiwA6Cbmw0WrOCVydKnZnx9ze63LtaUu2kf8Rt9L3ZctFyRB1Slkx76neSUmRoCYqwQAvDBwE

ECHO - https://sickkids.echoontario.ca/

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Department of Anesthesiology and Pain Medicine



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