Procedural pain management in children & youth: A toolkit for health professionals

Medical procedures are common. They are amongst the most distressful and painful aspects of medical care for children and youth.

This toolkit shares evidence-based solutions so #ItDoesntHaveToHurt.
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“I think as parents a lot of times, we want to advocate for our kids, but we don’t want to be a burden to the health system. I know a lot of parents worry about this. I want other parents to understand that managing pain is important to your child’s development and physical and mental health... you are not being bothersome. You are doing this for their wellbeing. Advocating for pain management is important... there is science behind it.”

~ Erin, parent partner
Preface

The purpose of this toolkit is to guide health professionals in integrating evidence-based solutions for procedural pain assessment and management in children and youth.

About Solutions for Kids in Pain

*Solutions for Kids in Pain (SKIP)* is a knowledge mobilization network funded by the Networks of Centres of Excellence (NCE), based at Dalhousie University, and co-led by Children's Healthcare Canada. SKIP seeks to bridge the gap between current treatment practices and available evidence-based solutions for children's pain in Canadian health institutions. SKIP brings together Canada's world-renowned pediatric pain research community, front-line knowledge user organizations, and patients and caregivers. SKIP capitalizes on the engagement of its 6 hubs (IWK Health Centre, SickKids, Stollery Children's Hospital, Children's Healthcare Canada, CHU Sainte-Justine, University of Calgary), over 100 partners, and patients and caregivers to collaborate and co-produce interconnected knowledge mobilization activities.

Purpose and Scope

The purpose of this toolkit is to guide health professionals in integrating evidence-based solutions for procedural pain assessment and management in children and youth. The information and resources contained in this toolkit can be integrated into clinical practice, to support clinical education, and inform organizational polices. The clinical resources contained in this toolkit will be helpful for health professionals, as well as the patients and families with whom they work. This toolkit was guided by the best available scientific evidence and resources at the time of development. The published evidence used to inform this toolkit can be found in the bibliography.
**Patient Partnerships**

This toolkit was developed in partnership with youth and parents/caregivers with lived experience across the country. This team contributed to the toolkit’s content and design, shared their stories, perspectives, knowledge, and ideas.

Access to timely and effective pain management is a fundamental human right and is an essential component of child and family health and well-being. Systemic racism, discrimination, and bias have a grave impact on our healthcare system including driving pervasive and structural health inequities. These health inequities include barriers to accessing timely, equitable, and evidence-based pain management. Effective pain management begins with proper pain assessment.

Accordingly, the [assessment section](#) of this toolkit addresses considerations specific to certain equity-seeking groups. Working with youth and parents to co-develop this toolkit, including representation from equity-seeking groups, reflects a commitment to a patient-centered approach to procedural pain management and striving towards improving health equity for all children and families in Canada.
Introduction

The consequences of poorly managed pain and distress from procedures can be negative and long-lasting, including as a source of medical trauma.

Introduction to Procedural Pain

Children frequently undergo painful medical procedures as part of diagnosis or treatment. Hospitalized children experience up to six acutely painful medical procedures every 24 hours, and most of these are done without any pain management. Infants admitted to a neonatal intensive care unit undergo up to 14 acutely painful medical procedures a day. Medical procedures are often reported to be the most distressing aspects of medical care for children, youth, and their families. The experience of pain for a child is complex and is usually accompanied by anxiety, fear, and behavioural changes. Furthermore, the consequences of poorly managed pain and distress from procedures can be negative and long-lasting, including as a source of medical trauma.

Despite significant research efforts to improve pain management for children, evidence indicates that strategies to prevent or manage pain from medical procedures are not being utilized effectively.

The first national health standard for quality and equitable pediatric pain management was published in 2023 and developed in partnership between SKIP and the Health Standards Organization. This national health standard identified preventable, untreated, and unmanaged pain, such as that from medical procedures, as patient safety incidents. Recognizing procedural pain as a patient safety incident helps to identify obstacles to proper management and facilitate adherence to best practices. Furthermore, the standard recommends the development and implementation of individualized, multimodal pain management plans (i.e., integrating pharmacological, psychological, and physical strategies).
Empowering children, youth, and their families to actively participate in the pain management process is a critical aspect of quality pain management.

Health professionals should prioritize the use of minimally invasive techniques whenever feasible, and when a painful procedure is unavoidable, a multimodal approach should be utilized to enhance patient and family experience, as well as procedural success. It is important to note that combining these strategies has been shown to be more effective than using one approach alone. Procedural pain management should be individualized to each child's unique needs, abilities, preferences, and values, and evaluated for efficacy using age-appropriate pain assessment tools. By implementing these strategies, health professionals can deliver comprehensive pain management that maximizes comfort and health outcomes.

**Key Standards, Organizations, and Resources that Promote Quality Multi-Modal Procedure Pain Management**

The following resources complement those listed in each section of the toolkit:

**Managing pain and distress in children undergoing brief diagnostic and therapeutic procedures**
This Canadian Paediatric Society position statement provides guidance to health professionals for managing procedural pain and distress.
[Visit website](#)

**Solutions for Kids in Pain (SKIP)**
A national knowledge mobilization network seeking to bridge the gap between current treatment practices and available evidence-based solutions. In collaboration with patient partners and organizational partners, produces and promotes evidence-based tools and resources to improve children's pain management.
[Visit website](#)

**Translating Emergency Knowledge for Kids (TREKK)**
TREKK provides key resources and bottom line recommendations to improve emergency care for children, including topics on procedural pain management.
[Visit website](#)

**Meg Foundation**
Provides children, youth, parents, and caregivers with science-backed resources to help manage pain experiences. They provide healthcare providers with a toolkit for improving procedural pain management.
[Visit website](#)

**ChildKind International**
A nonprofit organization whose mission is to improve the quality of pediatric pain care around the world.
[Visit website](#)

**SickKids Online Paediatric Pain Curriculum**
Includes modules targeted towards health professionals and trainees. The web-based modules are freely available and include topics on acute and chronic pain management, management of pain in palliative care, the ethics and management of pain in children, pharmacological and non-pharmacological therapies and more.
[Visit website](#)

**The CARD™ System**
CARD™ is an evidence-based framework that provides strategies that can be used to help cope before and during vaccination and needle procedures.
[Visit website](#)

**Suggested Citation (APA Citation Style):**
Assessment

The effective treatment of pain, regardless of cause, starts with a proper assessment of pain.

Overview

This section of the toolkit focuses on pain assessment – a critical first step in informing appropriate interventions for managing acute procedural pain in children and youth.

“Sometimes, when I am experiencing pain, people think I am just anxious. But what I am feeling is pain. It is important to be able to understand the difference.”

~ Eureka, patient partner

The effective treatment of pain, regardless of cause, starts with a proper pain assessment. Comprehensive assessment involves querying aspects of pain including location, quality, duration, and intensity using developmentally appropriate language and tools.

Pain, at its core, is an internal, personal, and subjective experience; therefore, asking the child about their own pain (self-report) is the recommended approach whenever possible. There are a range of tools available to help assess pain in this way. Examples include the 11-point Numerical Rating Scale, Visual Analogue Scale, Faces Pain Scale-Revised, and pain charts (e.g., body maps). These tools are widely available, easy to use, and evidence based.

Health professionals can also ask parents/caregivers to report on their child's pain (observer report). Although parents/caregivers can provide helpful information about their child's pain, there can be discrepancies between what parents report and what children report in terms of their pain. While health professionals sometimes infer pain through observation of a child, their report of the child's pain often also differs from that of the child themselves.
Parents and caregivers can be particularly helpful over health professionals as they are more familiar with the child and can better assess whether the child is different from their typical day-to-day behaviours and experience. However, we generally recommend caution in relying solely on observer reports of children's pain and using this information as just one piece of the pain puzzle.

For infants, younger children, or for those who are unable to verbally report their pain, pain can be assessed using behavioural indicators (e.g., facial expressions such as grimacing, crying, sleep disturbance, and reductions in feeding and activity). Behavioural rating scales can be used to help with behavioural observation and assessing pain in this way.

Finally, pain assessment doesn’t just occur at one point in time. Effective pain management involves monitoring and reassessing pain (e.g., before, during, and after medical procedure) to track changes in pain over time, and to determine the effectiveness of any treatment.

Pain Assessment in Equity Seeking Populations

Comprehensive pain assessment considers how aspects of diversity including language, culture, ethnicity, age, sex, gender, ability, social context, socioeconomic status, and/or education play a role in the experience and expression of pain. Each of these factors can intersect with one another and can also interact with the biases, assumptions, and beliefs of the pain assessor (often the health professional). While not an exhaustive list by any means, a few important equity-seeking groups are considered below.

Indigenous Children and Youth

Research on the experience of pain has found cultural differences in how pain is expressed. For example, in certain Indigenous cultures, such as the First Nation Mi’kmaq community, an emphasis on stoicism and strength may result in youth exhibiting muted pain expressions or hiding their pain from others. Thus, these youth may not exhibit pain behaviours that health professionals typically expect when assessing pain (e.g., crying and grimacing). Health professionals assessing pain in youth from these cultural groups may benefit from creating additional space, building rapport, showing respect, and allowing youth to speak of their pain using their own words and their own story. It should be noted that the majority of research examining the expression and experience of pain in Indigenous communities in Canada has been conducted in Atlantic Canada with the First Nation Mi’kmaq community. As such, these recommendations and findings may not necessarily generalize to...
other Indigenous communities or even all individuals within this specific community. There has been some additional research that has focused on developing a culturally appropriate pain assessment scale adapted to Inuit language and culture; however, much work remains to be done.

**Black Children and Youth**

A longstanding history of racism, discrimination, structural inequities, and injustices perpetrated by the medical system have fueled a justified mistrust of this system by Black individuals. Moreover, research on racism in pain has found that false and damaging beliefs, such as the idea that Black people have thicker skin and therefore feel less pain, continue to be accepted even among medical trainees to this very day. As a consequence, Black people are more likely to have their pain underestimated by health professionals. This historical and current context is a critical point of consideration for health professionals when assessing pain and facilitating equitable pain assessment and treatment for Black children and youth.

**Children and Youth Who Cannot Communicate Verbally**

It is important to consider child development, language, and communicative ability when engaging in pain assessment. Although using self-report is recommended wherever possible, these measures do require a certain level of cognitive, language, and developmental ability.

Nevertheless, for children/youth with communication and/or developmental disabilities, it should not be assumed that self-report of pain is not possible. Modifications to pain assessment may include adapting/simplifying standard measures of pain intensity to be more developmentally appropriate. Self-reporting pain may involve a simple yes/no, other vocalizations, gestures, or signals (e.g., eye gaze shifts or blinks). Self-report may also be integrated with observer reports, such as those provided by caregivers, as well as behavioural observation.

“It is important to remember that pain can feel different from day to day. You can have the same needle every day but based on how your day is going, did you get enough sleep, or did you eat breakfast, it will feel different. And that is okay.”

~ Erin, parent partner
Section 2: Assessment

Health Professional Resources

Clinical Best Practice Guidelines: Assessment and Management of Pain
Describes clinical best practice guidelines for the assessment and management of pain.
Registered Nurses’ Association of Ontario
View PDF

The Recognition and Assessment of Acute Pain in Children
Describes clinical practice guidelines for the assessment of acute pain in children.
Royal College of Nursing
View PDF

Clinical Pain Assessment Flowchart
This flowchart for emergency departments can help you decide when and how to incorporate pain assessment and treatment into your practice.
View PDF

Pain Assessment Tools

PEDIADOL La douleur de l’enfant
Pédiadol est un groupe francophone d’experts composée de médecins, d’infirmières, puéricultrices et de psychologues impliquées sur le terrain dans l’amélioration de la prise en charge de la douleur chez l’enfant. La plateforme organise une conférence annuelle sur la prise en charge de la douleur pédiatrique et produit des formations, des outils et des ressources pour les professionnels de la santé et les familles.
Societe Savante pour le Traitement de la douleur chez l’enfant
Visit website

Numerical Rating Scale (NRS)
The NRS is a widely used self-report tool that measures pain intensity on an 11-point numerical scale ranging from 0 (“no pain”) to 10 (“Worst pain imaginable”).
View PDF

Faces Pain Scale – Revised
The Faces Pain Scale – Revised is a widely used and easy to administer self-report scale to assess pain in children aged 4 and older. It is available in over 40 languages and the instructions and copies of the measure are free to download.
Visit website

Northern Pain Scale
The Northern Pain Scale (NorthPS) is a pain scale that has been adapted to Inuit language and culture and has been used in the assessment of pain in both children and adults.
View article

Visual Analog Scale
The Visual Analog Scale is another widely used self-report measure to assess pain in children. It is recommended for use with individuals aged 7 to adulthood. The PDF document linked to below includes a copy of the scale and instructions for use.
View PDF

FLACC Scale
The FLACC Scale is an observational scale that can be used to aid in assessment of pain using behavioural observation. It is available in multiple languages, and it is recommended for use in children aged 2 months to 7 years of age.
View PDF (English)
View PDF (French)

EVENDOL Scale
The EVENDOL scale is an observational scale that can be used to aid in assessment of pain using behavioural observation. It is available in multiple languages, and it is recommended for use in children from birth to 7 years of age.
View PDF (English)
View PDF (French)

Neonatal Infant Pain Scale
The NIPS is a scale that can be used to assess procedural pain in newborns and infants (aged 0-1 month). It includes physiological, behavioural, and contextual indicators.
View PDF

Pain Charts
Pain charts (body maps or manikins) can be use in the assessment of pain location. This article provides an overview of the use of pain charts in eliciting information about the location of pain symptoms from children and adolescents.
View article
The Kids Hurt App
Here you can find an introduction to and overview of The Kids Hurt App – an app that is currently in development by the Aboriginal Children’s Hurt & Healing (ACCH) initiative and is intended to facilitate a more interactive and culturally-relevant way of measuring pain with Indigenous youth.
Visit website (The Kids Hurt App)
Visit website (Aboriginal Children's Hurt & Healing (ACCH) initiative)

Training Materials

When Owies Need More than a Band-aid… Managing Pain in the Emergency Department
Created by Geri St. Jean (R.N, B.Sc.N. Clinical Nurse Educator, University of Alberta), Hospital and Stollery Children's Hospital Emergency Department.
Additional acknowledgements: CAPHC
This clinical PowerPoint was developed to support education on using pain assessment techniques and tools, including case studies of interventions based on real-life examples from the emergency department.
View PDF

Other

Trauma-Informed Care: Implementation Resource Center
This website provides an introduction to trauma-informed care along with resources on this topic for health professionals.
Visit website

Smartphone Apps for Tracking Pain
There are a range of apps available to help with tracking and assessing pain (both chronic and acute). While a review of these apps is beyond the scope of this toolkit, you can read more about them in the paper linked below. At the time of its publication, there were no apps available that were designed specifically for use in pediatric patients. Since then, an app for pediatric patients has been developed, called iCanCope.
View PDF

 Consider:
How might you incorporate an intersectional lens into your practice for pain assessment?

iCanCope
This smartphone app was developed as a pain education and self-management platform for children and adults experiencing acute and chronic pain. It includes the ability to assess and track pain symptoms in real-time. This app was developed in collaboration with the Hospital for Sick Children and the Centre for Global eHealth Innovation. An additional app called iCanCope Postop is in development and is specifically designed to help children and adolescents track and self-manage postoperative pain.
View website (iCanCope)
View article (iCanCope Postop)
“I think it is important to remember that pain doesn’t look the same on everyone.”

~ Saffi, patient partner
SECTION 3

Procedural Fear

Taking care to manage children’s fear and anxiety early on can set the stage for making future medical procedures easier.

Overview

This toolkit section focuses on managing fear and anxiety related to medical procedures.

Fears of medical procedures (for example, getting vaccinations or blood draws) are common in children. Medical procedures like this are also common in childhood, and how pain and anxiety are managed can have long-term consequences. For example, fears of medical procedures in childhood can last a lifetime and result in avoidance and delays in accessing necessary healthcare as children age and become adults. Taking care to manage children’s fear and anxiety early on can set the stage for making future medical procedures easier and increase children’s comfort and adaptive coping.

Helping reduce fear of medical procedures can begin with an open and honest conversation and creating space for children to feel heard, understood, and validated in their feelings. It helps if children can feel some sense of control over the situation. This can involve providing them with what to expect and, whenever possible, giving them choices to help them feel in control. These techniques can be helpful for children who experience low to moderate levels of fear. Being evasive, holding a child down, or forcing a medical procedure is not recommended and can have significant adverse and long-term consequences. Strategies such as comfort positioning and distraction can help to reduce procedural fear. In cases of high procedural fear, consider if procedural sedation or pharmaceutical supports are an option in combination with other strategies.

It was always helpful to us when clinicians used calming words: ‘we are going to make you as comfortable as possible during the procedure’ helps to make the child and the parents feel calm.”

~ Karan, parent partner
For children with high levels of fear, more focused and intensive treatment may be required. Exposure-based therapy is a psychological therapy that involves facing your fears gradually (moving from easier to more difficult situations). It is a first line recommended therapy approach for managing specific fears and phobias, including fears related to medical procedures (e.g., needle fear). Certified Child Life Specialists can help children manage their pain and anxiety during procedures. By supporting the child during the procedure, they allow caregivers to remain beside the child or can teach caregivers different comfort positions.

In addition, the Child Life Specialist can explain the procedure to the child and caregiver, and they will use positive reinforcement and supportive language.

These strategies for managing fear and anxiety can be used with other recommended pain management techniques, as outlined in other sections of this toolkit. Remember, different techniques work for different children. Speak to the child and the caregiver to learn what has worked well for them.

Strategies such as comfort positioning and distraction can help to reduce procedural fear.
Section 3: Procedural Fear

Health Professional Resources

Managing Procedural Anxiety in Children
IASP Pain Research Forum
A video demonstrating approaches to interacting with children to minimize anxiety and maximize cooperation.
(Watch Video)

Child Life Specialists can help children manage their pain and anxiety during procedures
Solutions for Kids in Pain
A pain fact sheet of the support that Child Life Specialists can offer during medical procedures.
(View PDF)

Family/Patient Resources

If your child is afraid of - or refusing - a medical procedure, here's how to help
Conversation Canada
This article provides recommendations for parents on what to do when their child experiences fears of medical procedures.
(Visit Website)

Teddy Bear Hospital 2022: Fiona Bear Gets an X-Ray and Ultrasound
The Museum of Healthcare
This video explains what happens during an x-ray and ultrasound.
(Watch Video)

Teddy Bear Hospital 2022: Teddy Gets a check-up
The Museum of Healthcare
This video explains to your children what happens during a visit to the doctor.
(Watch Video)

Book Recommendations for Procedural Fear (Ages 5-8 years old)

You Are So Brave!: Ellie and Leo Go to the Doctor
Authors: Anne Kim, Ioana Moldovan, Karen Jacobs

Ellie is vaccinated: A story about getting the COVID-19 vaccine
Authors: Chen sisters

It's Time For Your Checkup: What to expect when going to a doctor visit
Author: Shani Thornton

Betty's Blood Test
Author: Wendy J. Hall
“My daughter understandably has a lot of fear when it comes to her regular, painful medical procedures. I have learned that it is always best to be truthful with her and prepare her for it rather than spring it on her. Some of the ways we prepare are; talking it through, playing, and looking at her photo book. The book is full of pictures of her medical journey. Playing with her dolls and pretending to play doctor has really helped her process what she has been through and gives her confidence to get through the next procedure.”

~ Erin, parent partner
Overview

This section of the toolkit focuses on how distraction can be used to help manage and reduce acute procedural pain in children.

Distraction techniques are effective in reducing pain and distress related to needle procedures and laceration repairs. They are an important part of managing vaccine-related pain and fear. Distraction techniques can involve simple techniques such as bubbles, music, or deep breathing or can involve technology-based interventions such as games or videos on a smartphone or virtual reality.

The current best evidence supports distraction techniques for children aged 2 and older. There are a wide range of distraction techniques and strategies available for children and youth, and it’s important to consider the developmental and age appropriateness of techniques used. For example, blowing bubbles, reading a story, or playing an interactive game may be very effective distraction techniques for younger children. For older youth, it’s especially important to find ways to empower them in their own care. This can involve asking them about their preferred distraction techniques, presenting them with a few options and allowing them to choose what they prefer, and/or engaging in conversation with them that is unrelated to their procedure.

Not all strategies will work for all children and youth, and it’s okay to try different techniques, rather than forcing a strategy that is not working well.

“Last time I was at the hospital for surgery, a light tower was in my room. That was calming and gave me something to focus on. It helped me to take deep breaths while I waited for my surgery to start.”

~ Petra, patient partner
One thing that was helpful for our daughter when undergoing treatments was her bravery necklace that the hospital gave her. Every time she underwent a painful procedure, she could tie a bead onto her necklace. It helped distract her, but it also helped her see that she was braver and braver each day.

~ Karan, parent partner
Section 4: Distraction

Health Professional Resources

Managing pain and distress in children undergoing brief diagnostic and therapeutic procedures
A position statement from the Canadian Pediatric Society on procedural pain in children. Includes an overview of distraction as a psychological pain management technique as well as ideas for both younger and older children.
Visit website

Bottom Line Recommendations: Procedural Pain
A summary of the management of pediatric procedural pain, including physical and psychological distraction techniques. Includes a brief description of distraction as a psychological pain management technique.
Translating Emergency Knowledge for Kids (TREKK)
View PDF

Recommandations de Base: Douleur procédurale
A summary of the management of pediatric procedural pain, including physical and psychological distraction techniques. Includes a brief description of distraction as a psychological pain management technique.
Translating Emergency Knowledge for Kids (TREKK)
View PDF

Tip Sheet: Coping Strategies for Painful Procedures
Provides an overview of various distraction techniques and makes recommendations for the use of specific techniques based on age.
Children’s Healthcare Canada (formerly CAPHC)
View PDF

How to Use Buzzy Bee Distraction Device in a Clinical Setting
Provides an example of a Health Canada approved cold and vibrating device that can have a positive effect on pain reduction when used just before a needle poke. This resource is a comprehensive PDF of a presentation slide deck on this topic.
View PDF

Utilisation du dispositif BuzzyMD
Buzzy® est un petit appareil à piles qui permet de diminuer la douleur liée aux procédures à l’aiguille. L’appareil se présente sous la forme d’une abeille dont le corps vibre et les ailes peuvent être congelées. Il fonctionne avec des piles.
CHU Saint Justine
View PDF

Family/Patient Resources

The Use of Humor to Reduce Pediatric Pain
Tip sheet on using humour as a distraction technique for managing acute procedural pain.
Children’s Healthcare Canada (formerly CAPHC)
View PDF

Distraction in Action Tool (DAT)
The Distraction in Action Tool (DAT) is a web-based tool that can help identify your child’s risk for distress (DistrEstimate) and provide you with instructions based on your individual child.
The University of Iowa
Visit website

Distraction in Action - Helping Your Child During Medical Procedures
This video describes how caregivers can help distract children during painful procedures. It was filmed with real patients and parents.
University of Iowa Stead Family Children’s Hospital
with support from the Mayday Fund
Watch video

How To Manage Pain During Medical Procedures: You are the Boss of Your Brain
This video teaches children and caregivers about how pain works and techniques to distract your brain during pain.
Stanford Medicine Children’s Health – Lucille Packard Children’s Hospital
Watch video

Distraction during procedures
Distraction ideas for parents and caregivers.
Children’s Hospital of Eastern Ontario
Visit website
Distraction ideas
This webpage includes a section called “Distraction Ideas”, which provides a list of distraction ideas grouped by child age, ranging from infants to adolescents.
Visit website

Training Materials

Procedural Distraction 101 for Staff
Created by Breanne Mathers (Child Life Specialist) and Nick Joachimides (Manager, Patient Safety) at Holland Bloorview Kids Rehabilitation Hospital.
View PDF

Piqûres sans blessure - Video voie veineuse en pédiatrie
CHU Sainte-Justine
Watch video

Pour des soins en doceur - Capsules d’information et de prevention (Video) CHU Sainte-Justine
Visit website

“Get to know what works best for your child but understand that can change. For a while, when the nurses would come in for a procedure, as parents, we would set up her favourite cartoon and ask them to wait 5 minutes so she could get settled watching her show. But then that no longer kept her attention, so we switched to shorter videos on YouTube, which worked well.”

~ Karan, parent partner

Distraction toolkit ideas

Build a comfort kit!

Toddler/Preschool Age
- Bubbles
- Textured balls
- Glitter wand
- Rain stick
- Stickers
- Light up or spinning toys
- Looking at pictures books
- Listening to music, watching a show or playing a game on an iPad/Smartphone

School Age
- “I Spy” books or pages
- Playdoh
- Kaleidoscope
- Deep Breathing
- Tapping fingers
- Telling jokes
- 20 Questions Game
- Listening to music, watching a show or playing a game on an iPad/Smartphone

Youth
- Stress ball
- Distraction cards
- Drawing board (Buddha Board, Etch-a-sketch or magnetic board)
- Relaxation techniques
- Conversation starters – “Tell me about...”
- Listening to music, watching a show or playing a game on an iPad/Smartphone
Section 5

Comfort Positioning

Holding a child in a secure, hugging, comfort position can help them feel safe and more in control during medical procedures.

Overview

This toolkit section focuses on how comfort positioning can be used to help reduce pain, distress, and discomfort in children.

Holding a child in a secure, hugging, comfort position can help them feel safe and more in control during medical procedures such as immunization and IV insertion. The current best evidence supports health professionals partnering with parents and caregivers to help reduce a child’s anxiety during a procedure. Parents and caregivers should always be encouraged to be present during procedures while also considering caregiver preferences. This can help the child feel safe and prevent anyone from being injured during the procedure.

There are lots of different positions for comfort that children and caregivers can try. Children of all ages can benefit from different types of comfort positions. Younger children may want to sit on a parent or caregiver’s lap. ‘Hugging’ holds can provide comforting but secure support. For older children and teens, comfort positioning can involve sitting upright and having a trusted person or parent sitting next to them. For children of all ages, evidence shows that remaining upright, instead of the traditional approach of lying on a bed while restrained, increases comfort and a child’s sense of control during painful medical procedures.

“Having posters displaying comfort positions in different hospital areas is a great idea. Parents and children can look at them and healthcare professionals can use them to help explain what to do.”

Eureka, Patient Partner
It’s important to distinguish between secure comfort holds that support children and how that differs from restraint. Restraint takes control away from the child and is not a recommended approach. Wherever possible, create space for the child to have some control over what position they are in/would prefer to be in. This may include taking the time to ask them what position helps them feel more comfortable. Finding an effective comfort position should ideally be a collaborative effort between health professionals, children, and their caregivers. As a health professional, you can check in with families throughout the procedure to assess how well the pain management strategies are working.

Comfort positions can be combined with other pain management strategies (e.g., distraction, topical anesthetics, and other strategies aimed at reducing anxiety or fear) to provide a multi-method, comprehensive pain management approach.

The following resources illustrate what comfort positions can be helpful during different medical procedures. Some of these resources may be helpful for parents and families in preparing for medical procedures. For example, the posters on comfort positioning could be printed out and hung up in a waiting area where families could view them in advance of a medical procedure.

“There is a big difference between needing to hold your child down and using a comfort position. It is a relief to know that many options exist to hold your child safely and comfortably during different procedures.”

Erin, Parent Partner
Section 5: Comfort Positioning

Health Professional Resources

Comfort Positions: positioning for comfort during blood draws and/or immunizations
An overview of comfort positions to increase the comfort of patients, parents, and medical staff during blood draws and immunizations.
BC Children's Hospital
View PDF

Comfort Positions: positioning for comfort during IV starts
An overview (PDF of presentation slide deck) of comfort positions to increase the comfort of patients, parents, and medical staff during IV starts.
BC Children's Hospital
View PDF

Positions for Comfort (PFC) Reference Chart
Provides an overview of various positions that caregivers and children can adopt to promote increased comfort and better coping during painful procedures.
Children’s Hospital of Eastern Ontario
View PDF

Comfort Positions Poster
This poster describes different comfort holds and when to use them.
Commitment to Comfort program at Alberta Children’s Hospital
View PDF

Posters on Positioning
(French; developed by CHU Ste Justine)
Positionnement-bambin
Positionnement-enfant
Positionnement-nourrisson
Positionnement-préscolaire

Training Materials

Why and how clinicians can use comfort positions in their practice
Child life specialists discuss how clinicians can use comfort positions to support medical procedures.
C.S. Mott Children’s Hospital
Watch video

Communicating with parents about comfort positions
Child life specialists discuss how clinicians can communicate and demonstrate comfort positions with patients and families.
C.S. Mott Children’s Hospital
Watch video

Family/Patient Resources

Comfort Positions
Learn comfort positions that allow you to calm and comfort your child while keeping them safe!
The Meg Foundation has developed printable PDF posters on comfort positioning, available in multiple languages!
Meg Foundation
Visit website

Resources for Tweens & Teens (12+)
The Meg Foundation website has a whole section of pain resources specifically for older children and teens. This includes information on how to maximize comfort during painful procedures.
Visit website

Positioning for Procedures
An overview of comfort positions that can be adapted to suit the child or procedure.
Royal Children’s Hospital Melbourne
View PDF

10 Ways to Help Your Children Get Through Challenging Procedures
A poster for parents and caregivers that gives tips for comfort positions and other distraction techniques.
Stollery Children’s Hospital
View PDF
“It is beneficial, when possible, that a procedure isn’t rushed and that the patient has as much control as possible over what position they would like to be in during the procedure. Otherwise, it can be traumatizing to be rushed through but if you talk to patients about what is best for them, that can avoid fear in the future.”

~ Raissa, patient partner
Infant Focused Strategies

Early pain experiences in infancy and early childhood can shape the brain and affect future pain experiences.

Overview

This section of the toolkit focuses on how breastfeeding, non-nutritive sucking, and oral sucrose can be used to manage acute procedural pain in infants (aged 0 to 1 years) and premature babies.

Breastfeeding is a multi-modal pain management technique that offers comfort through skin-to-skin contact, rocking, and sucking. It has been shown to be an effective strategy for reducing pain in infants. Evidence also shows that endogenous opiates (i.e., opiates produced naturally in the body) can be transferred to the infant through breast milk and help with reducing pain and increasing comfort.

Non-nutritive sucking (e.g., using a pacifier) is a simple physical technique that has also been shown to helpful in pain management and reducing distress. It can easily be integrated with other physical techniques, such as comfort positions, including rocking/holding, skin-to-skin contact or "kangaroo care", swaddling, and facilitated tucking. While these physical strategies are easy to implement and have been shown to reduce pain and distress, they likely will not eliminate all pain associated with a medical procedure. As such, it is recommended that these strategies be used in combination with pharmacological and other evidence-based strategies for pain management in infants.
Oral sucrose is a pharmacological approach to pain management and is successfully used for venipuncture, intravenous cannulation, lumbar puncture, urinary catheterization, and other common medical procedures. The recommended dose can vary from 0.5 mL to 2 mL of 24% to 33% sucrose. To maximize effectiveness, the first part of the dose of oral sucrose must be given just before the procedure (2 minutes prior). The remaining oral sucrose should be administered during the actual procedure. Evidence shows that oral sucrose is most effective for reducing pain in children under the age of 1 year and can reduce pain scores by approximately 20%. As with the other strategies mentioned in this section, it is most effective when combined with other pain management techniques.

Early pain experiences in infancy and early childhood can shape the brain and affect future pain experiences. As such, timely assessment and early intervention are critically important when it comes to pain in infants.

It may be a good idea to revisit the section of the toolkit that focuses on pain assessment and familiarize yourself with what to look for when assessing pain in infants. This can then inform timely intervention and pain management. When considering various options for pain management in infants (and older children as well), it is recommended that health professionals adopt a least-invasive approach wherever possible (meaning start with the least invasive options and progress from there as required).

Reducing pain in tests and treatments with 24% Sucrose

**Oral sucrose:**

Give 0.5 mL of 24% glucose solution PO (by mouth) 2 minutes before initiating the painful procedure.

If 24% sucrose is unavailable, dilute D50W with equal parts sterile water to create D25W as a substitute.
Section 6: Infant Focused Strategies

Health Professional Resources

**Bottom Line Recommendations: Procedural Pain**
A summary of the management of pediatric procedural pain, including physical and psychological distraction techniques. Includes oral sucrose dosing and administration instructions.
*Translating Emergency Knowledge for Kids (TREKK)*
View PDF

**Prevention and Management of Procedural Pain in the Neonate: An Update**
Policy statement from the American Academy of Pediatrics that provides overview of evidence-based recommendations for pain assessment and management in infants.
View article

**Pour des soins en douceur - Capsules d’information et de prevention**
Trois capsules vidéo pour les parents et gardien.ne.s sur les stratégies pour prévenir et réduire la douleur et de la détresse des enfants lors des procédures médicales.
*CHU Sainte-Justine*
Watch video

**Comfort Positioning – Infants**
A poster resource outlining various comfort position techniques for infants.
*Commitment to Comfort, Alberta Health Services.*
View PDF

**Family/Patient Resources**

**Be Sweet to Babies During Painful Procedures**
Watch this short video for an overview of baby-friendly techniques to increase comfort and help reduce pain during bloodwork (or other needle procedures). Techniques discussed include breastfeeding, kangaroo (skin-to-skin) care, and oral sucrose.
*Dr. Denise Harrison, Children’s Hospital of Eastern Ontario, CHEO Research Institute, University of Ottawa (English)*
Watch video

**The Power of a Parent’s Touch in Reducing Baby’s Pain During Medical Procedures: It Doesn’t Have to Hurt**
Watch this short video to learn how researchers have found parents can use breastfeeding and skin-to-skin to help comfort their newborns during painful procedures. This video also describes recommended timing for skin-to-skin contact or kangaroo care.
*Dr. Marsha Campbell-Yeo, Centre for Pediatric Pain Research IWK Health Centre and Dalhousie University*
Watch video

**What you Need to Know About... Reducing Pain with 24% Sucrose**
A pamphlet for parents and caregivers explaining the use of oral sucrose.
*Children’s Hospital of Eastern Ontario*
View PDF

**Kangaroo Care for your Infant**
An overview of the importance of Kangaroo care and tips on when and how to use Kangarooing techniques.
*Nationwide Children’s*
Visit website

**Creating Comfort for Babies Infographic**
This one-page infographic for parents provides a quick overview of pain management strategies for babies undergoing minor medical procedures, such as needles. This infographic is available in multiple languages.
*The Meg Foundation*
Visit website
“Whenever possible, babies need their parents with them during a procedure. Once, my daughter was taken away to put in an IV when they couldn’t get a vein and she screamed. It took me a long time to get the sound of her screaming out of my head.”

~ Erin, parent partner
Topical Anesthetics

A form of pharmacological pain management that can be used to minimize procedural pain and distress for children undergoing skin-breaking procedures.

Overview

This section of the toolkit focuses on the use of topical local anesthetics for pain management. Current best evidence supports the use of these techniques for children aged 0 to 17 years.

Topical anesthetics are a form of pharmacological pain management that can be used to minimize procedural pain and distress for children undergoing skin-breaking procedures, such as venipuncture, IV cannulation, lumbar puncture, and immunizations, and/or have experienced minor injuries, such as lacerations.

Topical anesthetics such as Lidocaine can also be used to reduce the pain associated with other procedures such as nasogastric tube insertion.

Topical anesthetics do not appear to be effective during heel lancing procedures – a painful procedure often used to take blood samples in newborns and infants. Refer to the section on infant specific strategies for additional pain management techniques for this age group.

Topical anesthetics can be combined with other physical and psychological interventions for pain management, such as distraction and comfort positioning, and can be effectively integrated as part of a comprehensive pain management approach for infants as well as older children and teens. It can be combined well with other strategies specific to managing immunization related pain and fear and procedural fear more generally.

“I use a topical anesthetic before some procedures, and I think it should not be underused when appropriate. Unfortunately, as I get older, healthcare professionals offer it less and less, but it is still beneficial, even to teens and young adults.”

Raissa, patient partner
Choosing the appropriate topical anesthetic is important. The Canadian Pediatric Society’s position statement on *Managing pain and distress in children undergoing brief diagnostic and therapeutic procedures* provides recommendations for choosing a topical anesthetic and administration guidelines based on the procedure.

Administration guidelines will differ depending on the particular anesthetic and procedure, so this is a useful guideline to refer to. It also gives an overview of advantages, side effects, and contraindications for each type of topical anesthetic described.

Parents may be interested to know that in Canada you can buy topical anesthetics (e.g., numbing creams and patches) without a prescription. They can be purchased at most pharmacies, and application instructions can be discussed with pharmacists at the time of purchase.

“When I arrived for my surgery, the first thing my nurse did was put a numbing cream on both my hands. She told me she didn’t know which hand the IV tube would go in, so she wanted to put it on just in case. I really appreciated that because I felt better prepared.”

Petra, patient partner
Section 7: Topical Anesthetics

Health Professional Resources

Managing pain and distress in children undergoing brief diagnostic and therapeutic procedures
Canadian Pediatric Society’s position statement on managing pain and distress in children. This document includes a table (Table 1) that outlines recommended topical anesthetics and administration instructions before needle procedures on intact skin. Canadian Pediatric Society
Visit website

Peds Case Notes: Managing pain and distress in children undergoing brief diagnostic and therapeutic procedures
A one-page summary of the Canadian Pediatric Society’s position statement on managing pain and distress in children. A PDF version of this one-pager can be accessed and downloaded by visiting the website below. Canadian Pediatric Society
Visit website

Bottom Line Recommendations: Procedural Pain
A summary of the management of pediatric procedural pain, including physical and psychological distraction techniques. Includes a brief overview of topical anesthetics based on the medical procedure that is being performed. Translating Emergency Knowledge for Kids (TREKK)
View PDF

Making Venipuncture Less Painful and Less Distressing
This clinical PowerPoint presentation was developed to support and facilitate education on using topical anesthetics for skin-breaking procedures in children. You can view a PDF version of the slide deck below. View PDF

Family/Patient Resources

Quick Tips Guide to Numbing Creams
A poster that provides a brief overview of how to use numbing creams (a type of topical anesthetic). This poster is available for download in multiple languages. The Meg Foundation
Visit website

Parents: Is your child having a needle? Please ask for the numbing cream (Maxiline®)
Poster for families and patient caregivers to remind their health care providers to apply the 'numbing cream'. Alberta Health Services (AHS)
View PDF

Quick Tips Guide to Numbing Creams
A poster that provides a brief overview of how to use numbing creams (a type of topical anesthetic). This poster is available for download in multiple languages. The Meg Foundation
Visit website

Numbing Cream: How to Make it Work for you!
This short video walks through tips and tricks for using numbing cream (a type of topical anesthetic). The Meg Foundation
Watch video

Commitment to Comfort: Numbing Cream
This handout provides an overview of how to access topical anesthetics over the counter, as well as administration guidelines. It should be noted that the information and pricing provided in this handout is specific to Alberta, Canada. Options for access and regulations may differ by province. Commitment to Comfort, Alberta Health Services
View PDF

“Don’t be skimpy - if you can use topical anesthetics, use it...it makes the experience better.”
Saffi, patient partner
“We were going for lumbar punctures regularly, and the doctors gave us numbing patches to put on before our appointment to help, and they helped. So I started putting a notification on my phone before we left for the hospital to apply a patch so that when we got to the hospital, they already had time to work.”

~ Karan, patient partner
Pain with Suturing

Laceration repairs are a common routine emergency procedure; however, many children may experience high levels of fear, anxiety, and pain before and during the procedures.

Overview

This section of the toolkit focuses on how to adopt pain-minimizing techniques while suturing children during laceration repairs.

Topical anesthetics are recommended to reduce pain before using beginning suturing. Recall that topical anesthetics will need to be applied in advance for them to take effect.

Absorbable sutures are recommended when suturing is required, so pain and distress associated with subsequent suture removal can be avoided. In cases where the laceration repair is relatively clean and simple, tissue adhesives (glue) may be used instead of sutures, which will also remove the pain associated with suturing.

Topical anesthetics can be combined with other pain management strategies, such as distraction, comfort positioning, infant-specific strategies, and other evidence-based techniques to provide a comprehensive, multi-method (i.e., pharmacological, psychological, and physical) approach to reducing the pain associated with suturing and laceration repair.
As noted in other sections of this toolkit, when considering options for pain management for children, it is recommended that health professions adopt a least-invasive approach wherever possible (meaning start with the least invasive options and progress from there as required).

And, as emphasized in the section of this toolkit on pain assessment, pain should be assessed on an ongoing basis to track pain over time and to ensure the effectiveness of pain management strategies used during medical procedures.

Laceration repairs are a common routine emergency procedure; however, many children may experience high levels of fear, anxiety, and pain before and during the procedures.
Section 8: Pain with Suturing

Health Professional Resources

Managing pain and distress in children undergoing brief diagnostic and therapeutic procedures
Canadian Pediatric Society's position statement on managing pain and distress in children. It includes a section focusing specifically on laceration repairs and recommendations for health professionals to minimize pain experienced by children undergoing these procedures.
Canadian Pediatric Society
Visit website

Peds Case Notes: Managing pain and distress in children undergoing brief diagnostic and therapeutic procedures
A one-page summary of the Canadian Pediatric Society's position statement on managing pain and distress in children. A PDF version of this one-pager can be accessed and downloaded by visiting the website below.
Canadian Pediatric Society
Visit website

Comfort in pediatric minor procedures: Pain free laceration repair for Esteban and Elsa
View PDF (English)

Confort lors des procédures mineures pédiatriques: Les Lacérations d’Esteban et d’Elsa
View PDF (French)

Pain management for children needing laceration repair
Article published in the Canadian Family Physician on managing pain during laceration repair.
Clare Lambert and Ran D. Goldman
Read article

Patient/Family Resources

Les points de sutures: Comment avoir moins mal?
Guide d’information destinée aux enfants qui explique les lacérations et les stratégies qui existent pour avoir moins mal lors de la procédure.
Voir le PDF

La suture d’une plaie
Guide d’information destinée aux enfants qui explique les lacérations et les stratégies qui existent pour avoir moins mal lors de la procédure.
Voir le PDF

NOTE: Additional resources for patients and families highlighted in other sections of this toolkit are not specific to suturing, but may be helpful in informing general best practice for pain management during a range of medical procedures, including suturing.
“Getting stitches feels odd, and it is helpful if the clinician explains what it might feel like in advance. Describing what stitches are like in an age-appropriate way would help.”

~ Saffi, patient partner
Intranasal Fentanyl

Intranasal fentanyl is a good choice for the pharmacologic treatment of moderate to severe pain.

Overview

This toolkit section focuses on how intranasal fentanyl can be a part of the treatment plan for moderate-severe acute pain and procedural pain for short, minor procedures in children.

The current best evidence supports the use of intranasal fentanyl for children aged 1 to 18 years. In Canadian pediatric emergency departments, intranasal fentanyl is frequently employed as first-line treatment of moderate to severe pain. Intranasal fentanyl has a quicker onset of action and far more predictable absorption than oral delivery. Intranasal fentanyl is faster and less painful to administration than intravenous or intramuscular routes. In addition, there is evidence to support that internasal fentanyl is safe and effective in prehospital settings and as an initial treatment for painful vaso-occlusive episodes (VOE) in sickle cell disease (SCD). Importantly, it has also been found to decrease the time required for the first parenteral opioid dose and also reduce the number of IV insertions.

While intranasal fentanyl is a good choice for the pharmacologic treatment of moderate to severe pain, especially when an intravenous is not feasible in a timely manner, it should not be used in isolation.
Distraction and physical comfort measures (such as ice and immobilization for injured limbs) should be used in conjunction with such pharmacological pain management to help address the pain and distress associated with illness and injury.

The purpose of this section is to support you in using intranasal fentanyl for your pediatric patients in the most responsible and safest way possible.

The contents can help confirm dosing and administration, help create a policy for its use in your organization, support clinical education in intranasal fentanyl use, and provide clinical resources to make intranasal fentanyl easier to use.

Please note that hemodynamic and sedation monitoring should be provided for any child receiving an opioid medication. We urge all practitioners to follow their health care institution’s recommended guidelines for monitoring.

From HSO Pediatric Pain Management Standard

The team should be sensitive to and consider potential conscious and unconscious biases (based on race, gender, socio-economic status, or other similar factors) when prescribing opioids for pain management.
Section 9: Intranasal Fentanyl

Health Professional Resources

Managing pain and distress in children undergoing brief diagnostic and therapeutic procedures
Canadian Pediatric Society's position statement on managing pain and distress in children. It includes a section focusing specifically on laceration repairs and recommendations for health professionals to minimize pain experienced by children undergoing these procedures.
*Canadian Pediatric Society*
[Visit website](#)

Guide clinique - Fentanyl intranasal
Guide clinique destiné aux professionnels de la santé sur l'utilisation du fentanyl intranasal lors des interventions médicales.
[Configurer le guide](#)

Intranasal fentanyl for the treatment of children in acute pain
A systematic review identifying and evaluating all randomized controlled trials (RCTs) and quasi-randomized trials to assess the effects of intranasal fentanyl (INF) versus alternative analgesic interventions in children with acute pain.
[Visit website](#)

Use of intranasal fentanyl for the relief of pediatric orthopedic trauma pain
A clinical trial to evaluate the use of intranasal fentanyl as analgesia for painful orthopedic injuries in children presenting to a pediatric emergency department (ED).
[Visit website](#)

Patient/Family Resources

Short-Acting Opioid Analgesics: Information for Parents and Families
CHU Ste. Justine
This brochure provides additional information on the use of short-acting opioids to help reduce pain while minimizing associated side effects and risks.
[View PDF](#)

So you have been prescribed an opioid?
Solutions for Kids in Pain and Stollery Children’s Hospital
[View PDF](#)
“Working with the patient and, depending on their age, their parents, to figure out what works well for them is important. Everybody is different, and communicating about individual preferences really can help.”

~ Raissa, patient partner
Vaccine Related Pain and Fear

Early and ongoing management of children’s fear of needles and pain related to vaccinations is essential.

Overview

This toolkit section focuses on Vaccine Related Needle Pain and Fear strategies to help manage discomfort related to vaccines. Fear of needles and the poorly managed pain associated with vaccines can lead to avoidance or delays in vaccinations, diminishing the benefits of immunizations for both the individual and the community.

Research also indicates that inadequate management of pain during vaccinations can lead to avoiding other medical procedures and healthcare interactions. Therefore, early and ongoing management of children’s fear of needles and pain related to vaccinations is essential.

Managing pain during vaccination procedures is considered good clinical practice by the World Health Organization. Evidence-informed strategies to improve vaccine experiences and reduce needle fear and pain exist and should be adopted to achieve best practices.

The impact of unmanaged needle pain and anxiety can extend beyond one procedure and contribute to vaccine hesitancy in children and adults.
When I need a needle, it is all my brain can think about. I remember that fear from when I was little. Even though I am older now, I still get scared, but I have learned to ask for a moment to take a deep breath and get myself ready.”

Petra, patient partner

The clinical practice guidelines include recommendations strategies such as distraction, comfort positioning (in an upright position), topical anesthetic and infant-specific strategies such as breastfeeding and oral sucrose.

Communication between vaccinators, patients and caregivers to develop a comfort plan and use positive language is encouraged.

Managing needle pain and fear related to vaccines is not a one size fits all approach and should be tailored to the specific needs of individual patients.

**Needle Pain and Fear Facts**

Vaccinations are the most common painful needle procedures.

2 out of 3 children have some degree of needle fear.

20-50% of youth are fearful of needles.

7% of parents and 8% of children report that a fear of needles is the primary reason for avoiding vaccinations.

There are simple and effective evidence-based strategies to help manage and reduce needle pain and fear associated with vaccines.
Section 10: Vaccine Related Pain and Fear

Health Professional Resources

Reducing Pain During Vaccine Injections: Clinical Practice Guidelines
Canadian Medical Association Journal
Complete clinical best practice guidelines overview for managing pain during vaccinations. View PDF

WHO Position Paper on Reducing Pain at the Time of Vaccination
World Health Organization
A summary of critical points View PDF

Immunization Pain Management (clinician focus)
Immunize Canada/Immunisation Canada
Clinical practice guidelines developed by the Help ELiminate Pain in KIDS (HELPinKIDS) team at the University of Toronto provide guidance for health care providers to help mitigate pain during immunizations. Visit Website (Multiple Languages)

Commitment to Comfort: Numbing Cream
Alberta Health Services
A one-page overview of how to use numbing cream to ease pain and discomfort before, during and after immunization. View PDF

Commitment to Comfort: Using Positive Language
Alberta Health Services
One-page overview of how to use positive language to ease pain and discomfort before, during and after immunization. View PDF

Commitment to Comfort: Distraction Techniques
Alberta Health Services
A one-page overview of how to use distraction techniques during vaccination to ease pain and discomfort before, during and after the procedure. View PDF

Training Video: Vaccine Administration Procedures for Health Care Professionals
Immunize Canada
Clinician-specific guide on how to talk to patients before, during and after the procedure and carry out injections. Watch VIDEO View PDF

Improving the Vaccination Experience: A Guide for Healthcare Professionals
Immunize Canada
An overview of the CARD System and practical checklist to help integrate the card system into practice. View PDF

Low-stimulus vaccine clinics help those with sensory sensitivities
Alberta Health Services
An overview and tips and tricks from a low stimulation vaccination clinic. Watch Video

Patient/Family Resources

Commitment to Comfort: Lessening Pain and Distress During Immunizations
Alberta Health Services
This website contains information and resources for parents, children and teenagers on managing needle pain and fear before, during and after your appointment. Visit Website

Strategies for Dealing with Needle Fear and Anxiety
Anxiety Canada
Seven strategies for dealing with needle fear and links to additional resources. View PDF

Ask A Scientist: Does it Have to Hurt?
Health Canada
A child-friendly video answers the question: Does it Have to Hurt? Watch Video Card Game For Kids

Needle Pain & Anxiety Management for Vaccination
Solutions for Kids in Pain
One-Page summary of evidence-based resources related to needle pain and fear. View PDF for Children Under five years old View PDF for Children 6 Years and Up
“My son has had Central lines and too many IVs to count. He has invisible veins that always need multiple pokes. His sister was always at his bedside and she was a witness to every struggle. It affected her deeply, but she refused to leave his side. Repeated negative experiences can affect our kids in different ways and can cause needle fears and phobias. Repeated negative experiences eventually led to avoiding routine medical appointments like immunizations. As a mom, I didn’t know what to do. I felt lost and misunderstood. I felt like I was failing. I’m a public health nurse and couldn’t even take my kids for their vaccines.

When Covid hit, I, like many other parents, was left wondering how I would get my kids through the door for their immunizations. I was able to attend the low stimulation clinics offered by Alberta Health Services with my kids. These clinics focus on using choice, collaboration and control to guide families through the immunization experience.

We can do many things to allow kids to feel in control of their environment. My kids need the vaccines drawn up out of sight, and my son likes the door to be left open.

Our nurse showed kindness and compassion to our situation; my kids could feel that. Over time, several positive experiences at the low-stim clinic allowed my kids to re-establish trust with healthcare providers. Eventually, they could receive their school vaccines in the school setting. That was a major win for us.

If I can leave you with one thing today, it’s that positive immunization experiences don’t take extra time, bells and whistles, or money. They just take kindness and compassion and truly understand the needs of the families in front of us.”

~ Pam, Parent Partner and Registered Nurse
References

**Section 1 – Introduction**


**Section 2 – Assessment**


**Section 3 – Procedural fear**


**Section 4 – Distraction**


**Section 5 – Comfort positioning**


**Section 6 – Infant strategies**


Section 8 – Suturing


**Section 9 – Intranasal fentanyl**


**Section 10 – Vaccine related pain and fear**


