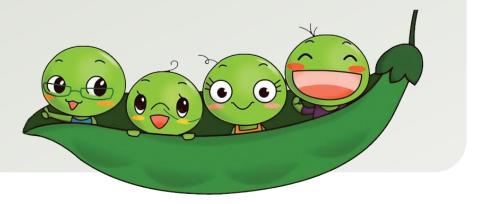
Pediatric Eating And Swallowing (PEAS) Provincial Project

Dr. Sharron Spicer Beverly Collisson, PhD Melanie Matiisen-Dewar

January 5, 2022





Conflicts of Interest

The speakers are presenting work done within their capacities at AHS.

The speakers have no financial or other conflicts of interest to declare.

Copyright

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Other references are cited and available from the speakers.

Objectives

At the end of this session, participants will be able to:

- define pediatric feeding disorder (PFD) and understand its scope and implications for practice
- demonstrate PEAS resources that will be helpful to you and your patients with PFD
- describe PFD referral pathways in Alberta

PEAS Project Scope

The Pediatric Eating And Swallowing (PEAS) Project is a provincial **quality improvement** initiative with the purpose of developing a provincial eating, feeding, and swallowing **clinical pathway** to standardize and improve care for children with a **pediatric feeding disorder**.¹

¹ Goday PS et al. *Pediatric Feeding Disorder: Consensus Definition and Conceptual Framework.* J Pediatr Gastroenterol Nutr. 2019 Jan;68(1):124-129.

Steering Committee

Executive Sponsors

• Natasha Tiemstra, Shawn Hillhouse, Catherine Hill, Julie Evans

Physician Co-PIs

- Dr. Justine Turner
- Dr. Sharron Spicer
- Dr. Paul Beaudry

Provincial Project Manager

Vanessa Steinke

Funding

Maternal Newborn Child & Youth Strategic Clinical Network sponsorship (2019-2022)

Alberta Health Inspiring solutions. Services Together.

Maternal Newborn Child & Youth Strategic Clinical Network[™]



World Cafés

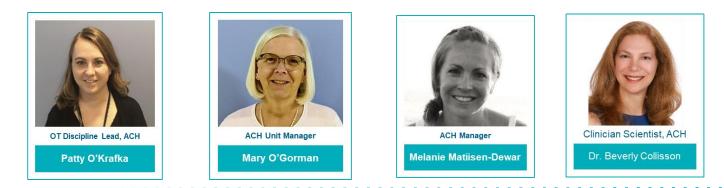
- Northern & Southern Alberta (Fall 2018)
- ~180 participants:
 - Multidisciplinary Providers
 - Family members
 - Rural and Urban
- ~1300 comments on the barriers and facilitators to care





Working Groups

- Access & Navigation
- Equipment & Supplies
- Roles & Implementation
- Standardized Practice & Education
- Evaluation





Is Feeding a Struggle? Find Services Equipment & Supplies FAQs For Families For Providers Q

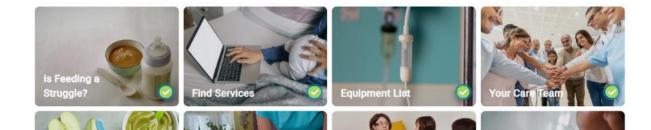
Find relevant information

For families and care providers of children with an eating, feeding and swallowing disorder





Popular Resources for Families



peas.ahs.ca

Pediatric Feeding Disorder

Defined



Pediatric Feeding Disorder

Impaired oral intake that is not age appropriate and is associated with **medical**, **nutritional**, **feeding skill**, and/or **psychosocial** dysfunction

REVIEW ARTICLE: NUTRITION

OPEN

Pediatric Feeding Disorder—Consensus Definition and Conceptual Framework

*Praveen S. Goday, ^{†‡}Susanna Y. Huh, *Alan Silverman, [§]Colleen T. Lukens, ^{||}Pamela Dodrill, [¶]Sherri S. Cohen, *Amy L. Delaney, [#]Mary B. Feuling, **Richard J. Noel, ^{††}Erika Gisel,
^{‡‡}Amy Kenzer, ^{§§}Daniel B. Kessler, ^{||||}Olaf Kraus de Camargo, ^{¶¶}Joy Browne, and ^{##}James A. Phalen

Goday PS et al. *Pediatric Feeding Disorder: Consensus Definition and Conceptual Framework.* J Pediatr Gastroenterol Nutr. 2019 Jan;68(1):124-129

Diagnostic Criteria

- A. A disturbance in oral intake of nutrients, inappropriate for age, lasting ≥2 weeks, associated with ≥1 of :
 - 1. Medical dysfunction
 - 2. Nutritional dysfunction
 - 3. Feeding skills dysfunction
 - 4. Psychosocial dysfunction
- B. Absence of the cognitive processes consistent with eating disorders. The pattern of intake is not due to a lack of food or congruent with cultural norms.

Acute (<3 months) versus chronic (> 3 months)

Prevalence

Reasonable Estimates:

- 2.70 4.35% of typically developing children under five
- 20 33% of children with complex chronic conditions under five



Pediatric Feeding Disorder: A Nationwide Prevalence Study

Karlo Kovacic, MD, MS¹, Lisa E. Rein, ScM², Aniko Szabo, PhD², Sruthi Kommareddy, MBA³, Pradeep Bhagavatula, BDS, MPH, MS⁴, and Praveen S. Goday, MBBS, CNSC, FAAP¹

Diagnosing PFD

Adopting a consistent ICD Code



ICD Codes

ICI

Pediatric Feeding

Disorder

United States ICD–10 (2021)

D-10 CODE	ICD-10 NAME
R63.3	Feeding difficulties (revised category) Excludes: eating disorders Excludes2: eating disorders (F50-), feeding problems of the newborn (P92-), infant feeding disorder of nonorganic origin (F98.2-)
R63.30	Feeding difficulties, unspecified
R63.31	Pediatric feeding disorder, acute
	Pediatric feeding dysfunction, acute Code also, if applicable, associated conditions such as: aspiration pneumonia (J69.0); dysphagia (R13.1-); gastro-esophageal reflux disease (K21),;malnutrition (E40-E46)
R63.32	Pediatric feeding disorder, chronic Pediatric feeding dysfunction, chronic Code also, if applicable, associated conditions such as: aspiration pneumonia (J69.0); dysphagia (R13.1-); gastro-esophageal reflux disease (K21); malnutrition (E40-E46)
R63.39	Other feeding difficulties Feeding problem (elderly)(infant) NOS Picky eater
R63.4	Abnormal weight loss
R63.5	Abnormal weight gain
R63.6	Underweight
R63.8	Other symptoms and signs concerning food and fluid intake
R64	Cachexia

ICD Codes

Pediatric Feeding Disorder

Canada ICD10-CA (projected 2025)



Canadian Institute for Health Information

Institut canadien d'information sur la santé

Next Steps: Alberta

- Create a SNOMED CT grouper to include Pediatric Feeding Disorder
- Identify other feeding terms that can be coded/mapped to these SNOMED CT codes as part of groupers
- Add to Connect Care April 2022



Standardizing Care

Clinical Practice Guide



Clinical Practice Guide for Healthcare Professionals

Provides information, guidance and recommendations, to support health care professionals in making clinical decisions regarding the screening, assessment and management of children with pediatric feeding disorder.



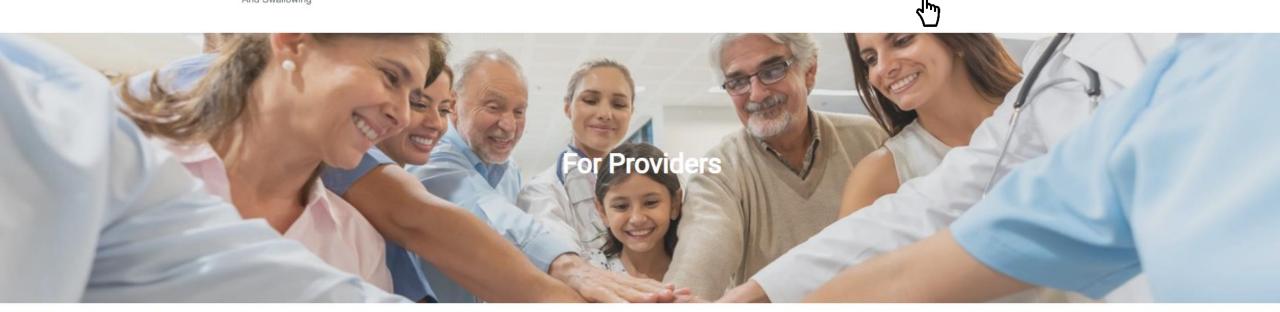
Oral & Enteral populations

- Online or downloadable version
- CPG Quick Reference of Tables & Figures



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FOR PROVIDERS

CLINICAL PRACTICE GUIDE

CLINICAL TOOLS & FORMS

COLLABORATIVE PRACTICE

PROFESSIONAL DEVELOPMENT

COMMUNITY OF PRACTICE

For Providers

The following are an array of evidence-based resources for healthcare providers in Alberta to support your work in serving children and families with the safest care, in a collaborative team, wherever possible.

Clinical Practice Guide



Clinical Tools & Forms

- Screening Tool
- Assessment Tools and Questions
- Food Record
- Collaborative Goal Wheel
- Ecoding Core Dian

Standardizing Care

Screening



Screening

THE JOURNAL OF PEDIATRICS • www.jpeds.com

ORIGINAL ARTICLES

Psychometric Properties of the Infant and Child Feeding Questionnaire

Alan H. Silverman, PhD¹, Kristoffer S. Berlin, PhD², Chris Linn, BS³, Jaclyn Pederson, MS³, Benjamin Schiedermayer, MS⁴, and Julie Barkmeier-Kraemer, PhD⁴

Can be used by: ✓ Families ✓ Providers

Screening for:✓ Feeding✓ Swallowing

Note: this link will direct you to Feeding Matters in the United States. After completing the Feeding Matters Infant and Child Feeding Questionnaire©, please return to the PEAS website and click on Find Services to locate services in Alberta.

eeding matters

iering pediatric feeding struggle to nourish healthy futures

oan C. Arvedson, PhD

oy V. Browne

Mary Beth Feuling

lizabeth Fischer

larsha Dunn-Klein

Suzanne Evans Morris

Erin Sundseth Ross

Colin Rudolph

Erika Gisel

MEd, OTR/L

Feeding Matters Infant and Child Feeding Questionnaire©

Welcome to the Feeding Matters Infant and Child Feeding Questionnaire©. If you have concerns about your child's feeding, please know that you are not alone. Early detection and treatment of feeding problems are critical to the long-term health and well-being of affected children.

Feeding Matters is currently working with experts to develop the Infant and Child Feeding Questionnaire[®], an evidence-based tool which may be used to promote early identification of feeding disorders and provides a method for referral of at-risk infants and children to appropriate care. You can help us in our efforts to do this by providing some additional personal information. Your participation will ultimately help other families like yours.

This questionnaire has been developed by internationally-recognized feeding experts to help you better understand your child's feeding habits. By completing this questionnaire you will learn about typical feeding development, identify if there are any areas of concern regarding your child's feeding, and be provided a method for discussing any concerns with your child's physician.

Please note that you will be directed to an age-specific questionnaire, based upon the birth date of your child. If your child was born prematurely (by definition of the American Academy of Pediatrics, less than 37 weeks gestation), the system will correct for your child's prematurity (you will not need to do this correction yourself). Questionnaires are available according to age groups, up through 36 months. After 36 months, all feeding skills should be mature. Therefore, if your child is older than 36 months, you will be directed to the questionnaire that was developed for children 36 months of age.

Please complete the information below to begin.

The questionnaire will take approximately 10-15 minutes to complete.

 Child's Birthdate
Jun v) 11 v) 2020 v
O How many gestational weeks?
Full Term 🗸
 Next

Standardizing Care

Assessment



Assessment



AJSLP

Research Article

Development and Content Validation of the Pediatric Eating Assessment Tool (Pedi-EAT)

Suzanne M. Thoyre,^a Britt F. Pados,^a Jinhee Park,^a Hayley Estrem,^a Eric A. Hodges,^a Cara McComish,^a Marcia Van Riper,^a and Kimberly Murdoch^b

Original Research—Pediatric Otolaryngology	FOUNDATION
Parent-Reported Outcome Questionnaire for Swallowing Dysfunction in Healthy Infants and Toddlers: Construction and Content Validation	Otolaryngology- Head and Neck Surgery 2021, Vol. 165(1) 197-205 © American Academy of Otolaryngology-Head and Neck Surgery Foundation 2020 Reprints and permission: sagepub.com/journalsPermissions.nav DOI: 10.1177/019459980970950 http://otojournal.org

Abdulsalam Baqays, MD, MSc^{1,2}, Wendy Johannsen, M-SLP, S-LP, R-SLP³, Marghalara Rashid, PhD⁴, Hussein Jaffal, MD¹, Anne Hicks, MD, PhD, FRCSC⁵, Caroline Jeffery, MD, MPH, FRCSC¹, Hadi Seikaly, MD, FRCSC¹, and Hamdy El-Hakim, MBChB, FRCS¹

January 13, 2022

Standardizing Care Management



January 13, 2022

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EQUIPMENT & SUPPLIES

EQUIPMENT LIST

FORMULA

Formula Coverage

Formula FAQs

ORDER FORMULA & ENTERAL SUPPLIES

Formula can

FUNDING INFORMATION

EDUCATION MATERIALS

Formulas are prescribed by Registered Dietitians and Pediatricians for both oral and enteral tube feeding to support age appropriate growth and development. The length of time your child will need formula may vary and is dependent upon their nutritional needs. If any changes are needed to your child's formula they will need to be made by your Registered Dietitian / healthcare professional. While using formula, regular follow up for your child is required to ensure the best health outcomes. Please coordinate with your health care provider to determine the frequency of follow up visits needed for your child.

Formula Coverage

Formula

Formula can be costly for families depending on the child's dietary needs and family income. Should you require financial assistance with formula costs, reach out to a Social Worker or Registered Dietitian in your program area. In Alberta, there are many programs funded through the Government of Alberta that can assist with formula coverage. All programs have specific eligibility criteria which a Social Worker can assist you with. If you have private insurance coverage, it is expected that you will attempt to use your private insurance coverage as the first source of benefit support. To find out which **specific** formulas are covered through Alberta government programs, click here:

READ MORE

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FOR FAMILIES

✓ ORAL FEEDING

✓ TUBE FEEDING

✓ FAMILY LIFE & SELF-CARE

✓ VIRTUAL HEALTH

✓ FOR PROVIDERS

Order Formula

The formula you order monthly for your child from the Provincial Home Nutrition Support Programs follows a shared payment model. This means that the AHS Home Nutrition Support Program will provide the monthly formula and then depending on your families benefit support, the family will be required to pay for a portion or all the costs of the formula supplied. The Registered Dietitian / healthcare professional determines the monthly supply of formula that your child requires.



Fligibility for Government Benefit Programs

Finding Services Alberta Referral Directory and Other Links



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FIND SERVICES

AHS SERVICES

OTHER PROVIDERS & SERVICES

VIRTUAL HEALTH

Find Services

A good place to start is with Health Link or your Family Doctor

Health Link

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Health Link is a free, round-the-clock, telephone advice and health information service. Anyone in Alberta with a health concern can dial 811 for Health Link.

• Need help finding a Family Doctor? Use the *O* online tool provided by the College of Physicians and Surgeons of Alberta or call Health Link.

QUICK LINKS YOUR CARE TEAM CARE COORDINATION EQUIPMENT & SUPPLIES FUNDING INFORMATION FAMILY LIFE & SELF-CARE TOOLS & TEMPLATES FAQS

Pediatric Eating, Feeding & Swallowing services

There are also healthcare providers and teams in Alberta that assess and provide healthcare for children with a known or suspected eating, feeding and swallowing (EFS) disorder:

- AHS Eating Feeding and Swallowing Services
- Other Providers and Services

Virtual Health

Virtual Health involves the use of technology to deliver health services (for example: Telehealth or Skype for Business) over distance. Some Eating, Feeding, and Swallowing services across the province offer Virtual Health services. You can ask your healthcare provider if this is a possibility.



Q

FIND SERVICES



Pediatric Instrumental Assessment Availability

Workflow Maps (for Providers)

OTHER PROVIDERS & SERVICES

VIRTUAL HEALTH



AHS Services

Note: For some clinics or services, a physician or healthcare professional referral may be required.

Helpful Directories

Most healthcare services in Alberta are listed in the following directories which include information about making a referral and location:

- O Alberta Referral Directory
- G AHS Pediatric Rehabilitation Directory
- O AHS Find Healthcare

AHS Eating, Feeding, and Swallowing services

The following are a list of pediatric Eating, Feeding, and Swallowing services offered by Alberta Health Services. The name of the clinic or service may be generic, however they all offer some pediatric Eating, Feeding, and Swallowing services ranging from routine to specialized services depending on their mandate. Please see the associated links for more information about how to make a referral or if self-referrals are accepted.

What Zone am I in? S Find Your Zone

North Zone			+
Edmonton Zone			-
Clinic / Service	Location	Notes	Link
Preschool Rehabilitation Services	Multiple locations	Birth to 5 years old. Assessment and intervention to support parent concerns related to daily routines such as eating.	Inform Alberta profile: • Preschool Rehabilitation Services: OT, PT • Preschool Speech and Language Services

Alberta Referral Directory

COVID-19 Update: Estimated wait times in the Alberta Referral Directory may not be applicable at this time.

Back to search results All Locations V

Pediatric Feeding and Swallowing - Outpatient Services at Stollery Children's Hospital CONNECT CARE: EDM STO WMC PED FEED/SWALLOW

Alberta Health Services - Edmonton Zone

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The Stollery Outpatient Feeding and Swallowing Clinic provides consultation and assessment to children with feeding and swallowing concerns or dysphagia in the absence of an underlying developmental or neurological diagnosis. Concerns may be due to suspected or known anatomic/physiologic impairments of the mouth, throat, airway, or digestive system. The feeding and/or swallowing concerns may also be due to an underlying medical condition such as a cardiac, gastrointestinal, pulmonary, or oncology related diagnosis. Presenting concerns may include:

- weak or uncoordinated sucking
- trouble coordinating breathing and swallowing
- impaired growth/nutrition or dehydration
- noisy breathing or airway congestion during and/or after feeding
- hoarse/wet voice or throat clearing while eating or drinking
- changes in color or state during feeding
- · coughing or choking during meals
- · frequent respiratory illnesses or pneumonia suggestive of pulmonary aspiration

Once the referral is received, it is reviewed and triaged by the Speech-Language Pathologist. A parent questionnaire is then mailed to the family to be completed and returned prior to an appointment being scheduled.

A Speech-Language Pathologist will complete the initial clinical feeding and swallowing evaluation and determine the need for further instrumental assessment (i.e., Videofluoroscopic Swallow Study (VFSS) or Fiberoptic Endoscopic Evaluation of Swallowing (FEES)). Follow-up visits will be scheduled as required.

Visit the PEAS (Pediatric Eating and Swallowing) website to find relevant information for families and care providers of children with an eating, feeding and swallowing disorder

Information for Community Physicians

Information wrong? Let us know! Patient Information

Estimated time to routine appointment: Not Available

REFERRAL PHONE	
780-407-8859	
REFERRAL FAX	
780-407-6586	
PHONE	
780-407-8859	

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FIND SERVICES

AHS SERVICES





Other Providers & Services

Additional services may be available to you outside of the public healthcare system to support your child's feeding difficulties. Here are a list of resources when searching for privately funded healthcare providers.

For funding, you may wish to contact Family Support for Children with Disabilities (FSCD) to see if you are eligible. They may be contacted at: *O* www.alberta.ca/fscd

Private healthcare agencies who provide eating, feeding, and swallowing services may also exist in your area. Sometimes these services are offered by agencies for children with special needs.

Private healthcare providers can also be found by going to the following websites:

- Speech-Language Pathologists

 Ø www.asapp.ca
 Ø www.sac-oac.ca
 Ø https://www.acslpa.ca/public-section/find-a-slp-or-audiologist/
- Occupational Therapists

 https://www.saot.ca/search-for-an-ot/
- Dietitians

 http://collegeofdietitians.ab.ca/public/how-can-i-find-a-registered-dietitian
- Psychologists

 Phtps://psychologistsassociation.ab.ca/referrals/

Additional resources may be available through:

https://childrenslink.ca/community-support/
 Health Link: call 811

Introducing Yourself to Your Feeding Therapy Team

When looking for a professional to partner with in your child's feeding journey, it is important to understand that they have the knowledge to support you and your child. As well, understanding their philosophy and approach to feeding therapy will help you to determine if they are a good fit for your family. Once you have found a few options, here are a list of commonly asked questions that may assist you:

Enhancing Care Interprofessional Collaboration and Goal-Setting



Current State

Teams according to **discipline**



Teams according to **geographic area**



Teams according to **clinical program**

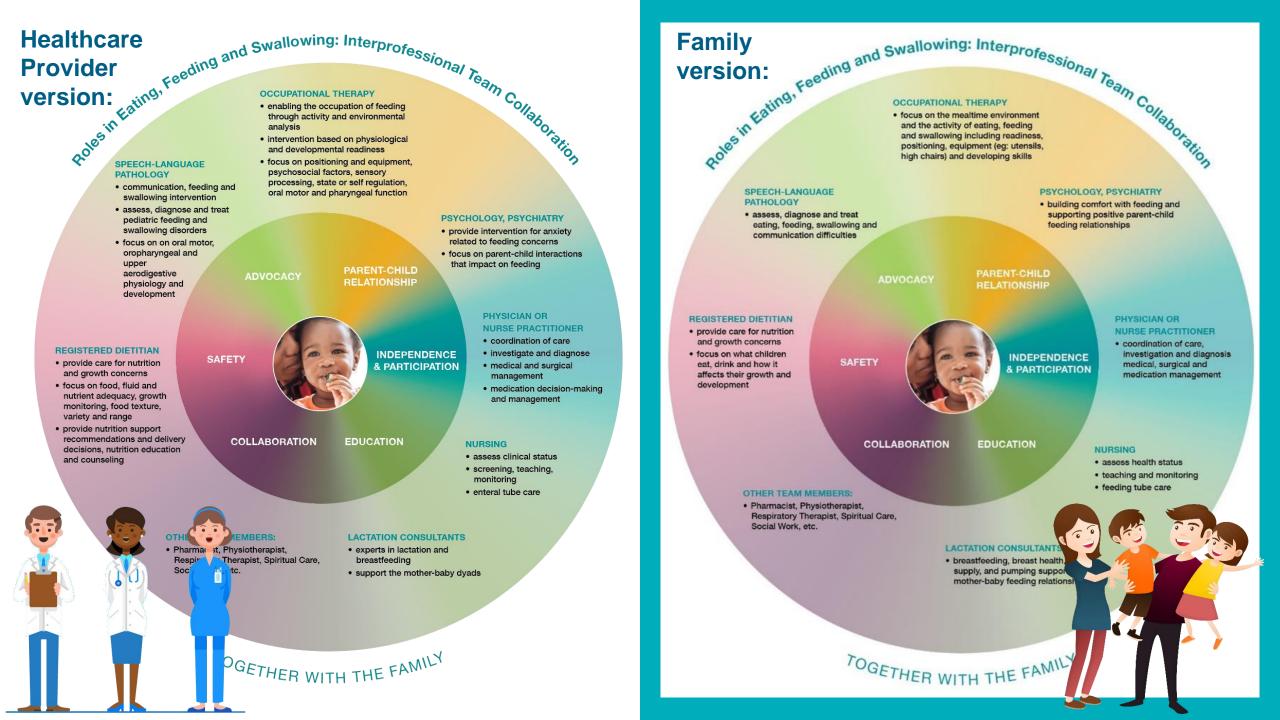


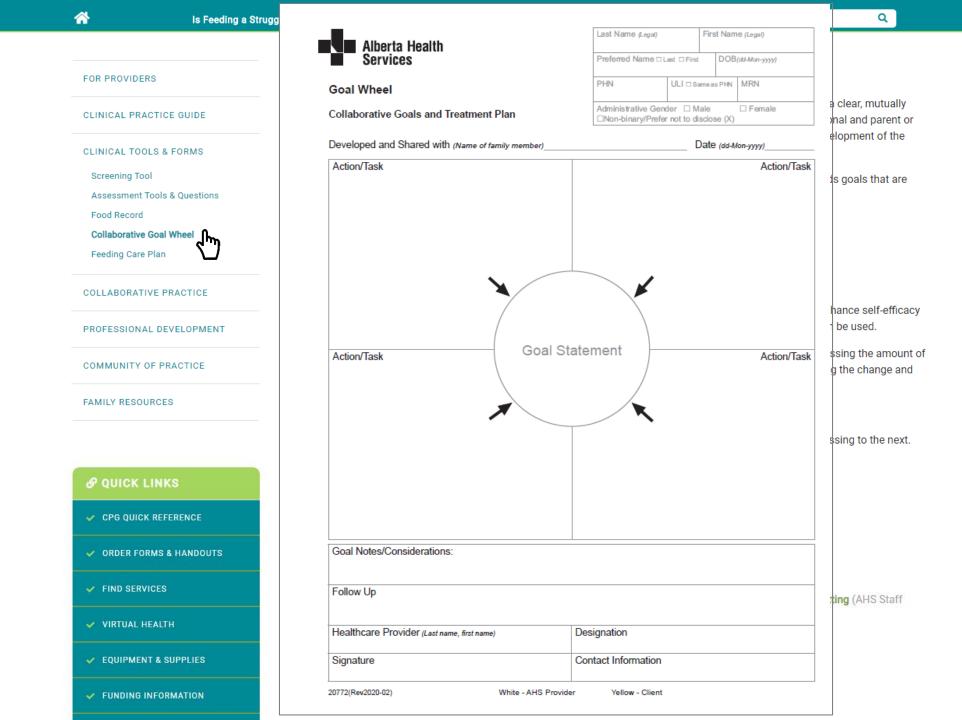
Future State

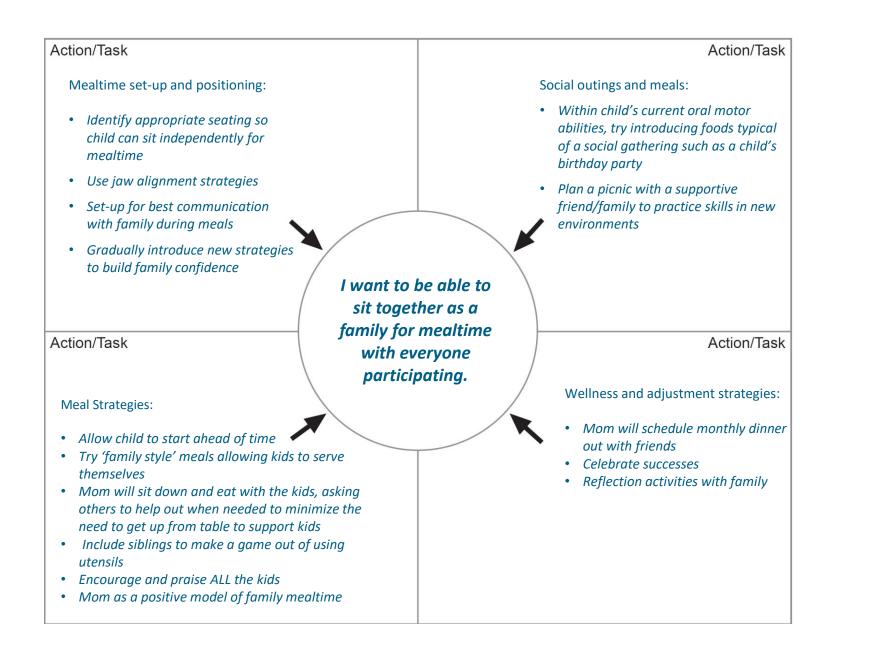
Collaborative Care Team



The **care team** is built **around the child and family** and **from their perspective**, rather than by discipline, geographic area, or clinical program.







Feeding Care Plan

• Templates are available for oral and enteral feeding on the PEAS website

Alberta Health	Last Name (Legal)		First Nam	10 (Legal)
Services	Preferred Name	Last 🗆 First	(dd-Man-yyyy)	
Pediatric Oral Feeding Care Plan	PHN	ULI⊡Sar	ne as PHN	MRN
·	Administrative Ger Non-binary/Prefe			Female
Developed And Shared with (Name of family Member)		Date (dd-l	/on-yyyy)	1
Child's Preferred Name (Last name, first name)				
Medical Condition(s)				
Food Restrictions or Allergies				
Emergency Contact (s)				
Diet/Food Preparation				
Drink Thickness* For examples of each, please click on the	links provided below	1		
□ Thin (Level 0) (includes breastmilk)	IIINS provided below			
Slightly Thick Fluids (Level 1) (includes commercially available)	ailablo. 'Anti rogurgit:	tion' infor	t formul	ael
□ Mildly Thick Fluids (Level 2)	allable Anti-regulgita	uon man	lionnuid	10)
□ Moderately Thick Fluids (Level 2)				
Liquidised (Level 3)				
Elquidised (Level 3) Extremely Thick Fluids (Level 4)				
Food Texture* For examples of each, please click on the link	is provided below			
Pureed (Level 4)				
□ Minced and Moist (Level 5)				
Soft and Bite Sized (Level 6)				
Regular Easy to Chew (Level 7) Regular (Level 7)				
□ Transitional Foods (Meltables)				
Mixed Consistency Allowed				
Oral Feeding Recommendations and Precautions				
Safe for oral medication				
Level of Independence with Eating and Drinking, e.g.,	supervision required	, assistan	ce requir	ed
Feeding Techniques and Precautions				
Feeding Techniques and Precautions				
Amount of food per bite:				
Amount of food per bite: Food placement:				
Amount of food per bite: Food placement: Pacing: e.g.,				
Amount of food per bite: Food placement: Pacing: e.g., □ Offer drink after bites				
Amount of food per bite: Food placement: Pacing: e.g., Offer drink after bites Other				
Amount of food per bite: Food placement: Pacing: e.g.,				
Amount of food per bite: Food placement: Pacing: e.g., Offer drink after bites Other				

Connections

"I didn't feel so alone ... I had someone to talk to that had previously gone through the emotions and experiences that I was currently going through."

FAMILY TO FAMILY Connections



PEAS - Pediatric Eating and Swallowing Provincial Project <u>peas.ahs.ca</u>

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Would you like to talk to another family? We have peer mentors ready to connect with you!

It helps to talk to someone who's been there.

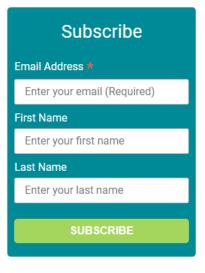
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NEWS AND EVENTS

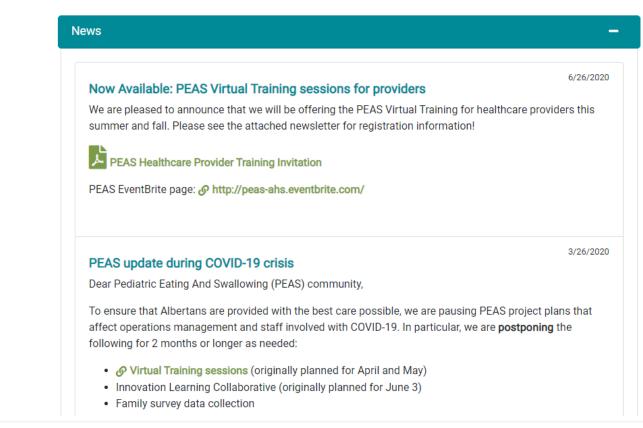
Archived

COMMUNITY OF PRACTICE

CONTACT US



News and Events



About PEAS

Pediatric Eating And Swallowing (PEAS) is a quality improvement initiative to standardize services and improve care for children with an eating, feeding and swallowing disorder in Alberta.

Learn more...

Quality Improvement

Quality Improvement QI Dashboard

Family Survey

About PEAS Order Forms & Handouts

Other

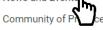
Glossary

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Alberta Health

News and Events

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CALGARY



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FOR PROVIDERS

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PROFESSIONAL DEVELOPMENT

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FAMILY RESOURCES



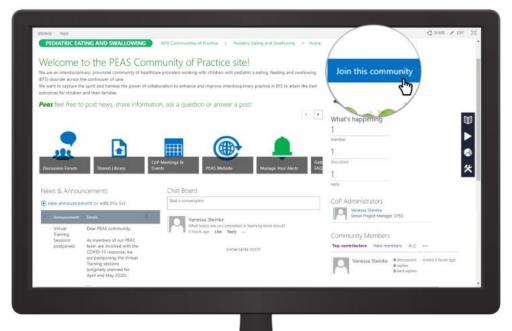
Community of Practice

We have just launched the Pediatric Eating And Swallowing Community of Practice (CoP) for healthcare providers who work with children with a pediatric eating, feeding and swallowing (EFS) disorder. This virtual CoP is an interdisciplinary community of healthcare providers across the continuum of care in Alberta. The goal of this CoP is to capture the spirit and harness the power of collaboration to enhance and improve interdisciplinary practice in EFS to attain the best outcomes for children and their families.

To join the PEAS Community of Practice:

- 1. You must be a healthcare provider with an AHS account. *See below for information on how to obtain an AHS account.
- 2. Go to the PEAS CoP website here: *https://extranet.ahsnet.ca/teams/CoP/PEAS/SitePages/Home.aspx* If prompted, enter your AHS account name and password.

3. Click "Join this community" as shown below. That's it!



Big PEAS & Thank YOU!

- Working Group co-chairs & members
- Steering Committee
- Leadership Team
- Family Advisors





PEAS.Project@ahs.ca