

Pumps for Preemies Program

BSRC Conference
Feb 2018





Welcome





Goals for Today

- Introduction to Pumps for Preemies Program including background, goals, potential models and work plan
- Seek feedback on proposed components, barriers and challenges for implementation and strategies to enhance success
- Learn how we can work together with community agencies to support this initiative





Today's Agenda

Time	Topic	Lead
10:00	Welcome and Introductions	Linda, Yvonne & Faiza
10:05	Goals for the session	Linda
10:10	Participant Introductions	All
10:20	Overview - The Pumps for Preemies Initiative	Linda
10:35	Readiness and Planning for Change	Linda
10:45	ACTIVITY - Market Place Idea Generation	Linda, Yvonne, Faiza
11:10	Market Place Ideas Report	All
11:25	Wrap Up and Next Steps	Linda



Introductions at Your Table

- Your name
- Your role and organization
- One aspect about this initiative you are curious about



Getting to Know You

- Roles represented at our table...
- We are curious about....



Introduction to the Pumps for Preemies Program



Business Case



- Optimal health for premature infants is best achieved through a 100% human milk diet
- First priority must be to support mothers in the provision of their own milk
- Physical and emotional barriers to breastmilk production for women with early preterm births including access to pump at home
- Preterm infants fed exclusive breastmilk have;
 - * improved feeding tolerance,
 - * fewer severe infections,
 - * fewer episodes of necrotizing enterocolitis (NEC),
 - * less colonization by pathogenic organisms,
 - * shorter lengths of stay and
 - * reduced rates of readmission (*Panczuk, Unger, O'Connor & Lee; Int Breastfeeding Journal, 2014*)
- One baby with NEC costs the health care system \$75,000 to \$200,000 USD more than a baby without NEC. (*Colaizy, Bartick, Jegier, Green, Reinhold, Schaefer, Bogen, Schwartz, and Stuebe; J Pediatrics, 2016*)

MOHLTC Funding



- Free access to breast pumps for mothers of preemies less than 34 weeks at birth for at home use
- Michael Garron Hospital to lead initiative
- Working with Provincial Council for Maternal and Child Health (PCMCH) and the Baby Friendly Initiative Strategy (BFI)



Goal: Pumps for Preemies

To design and guide the implementation of a breast pump loaning model to ensure that all mothers of babies born at less than 34 weeks of gestation will have access to a free hospital-grade breast pump and kit for at-home use until their baby is discharged home.

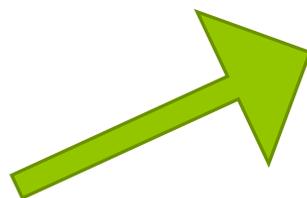


Ontario Births 2016-17

Premature Births

8.1%

8145 babies



Early Preterm

< 34 weeks

2.2%

2962 babies

Late Preterm

34-36 weeks

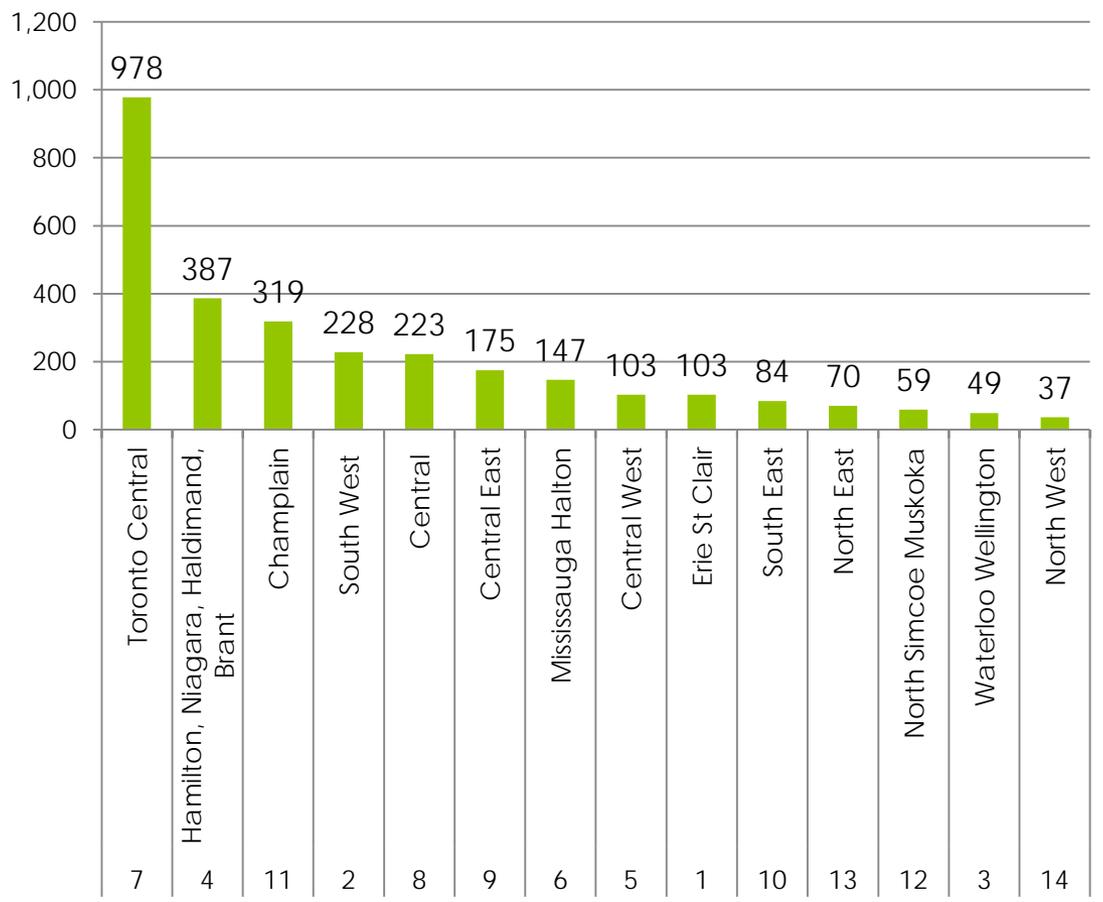
5.9%

8145 births



Births < 34 weeks by LHIN

Early Preterm Births 2016-17

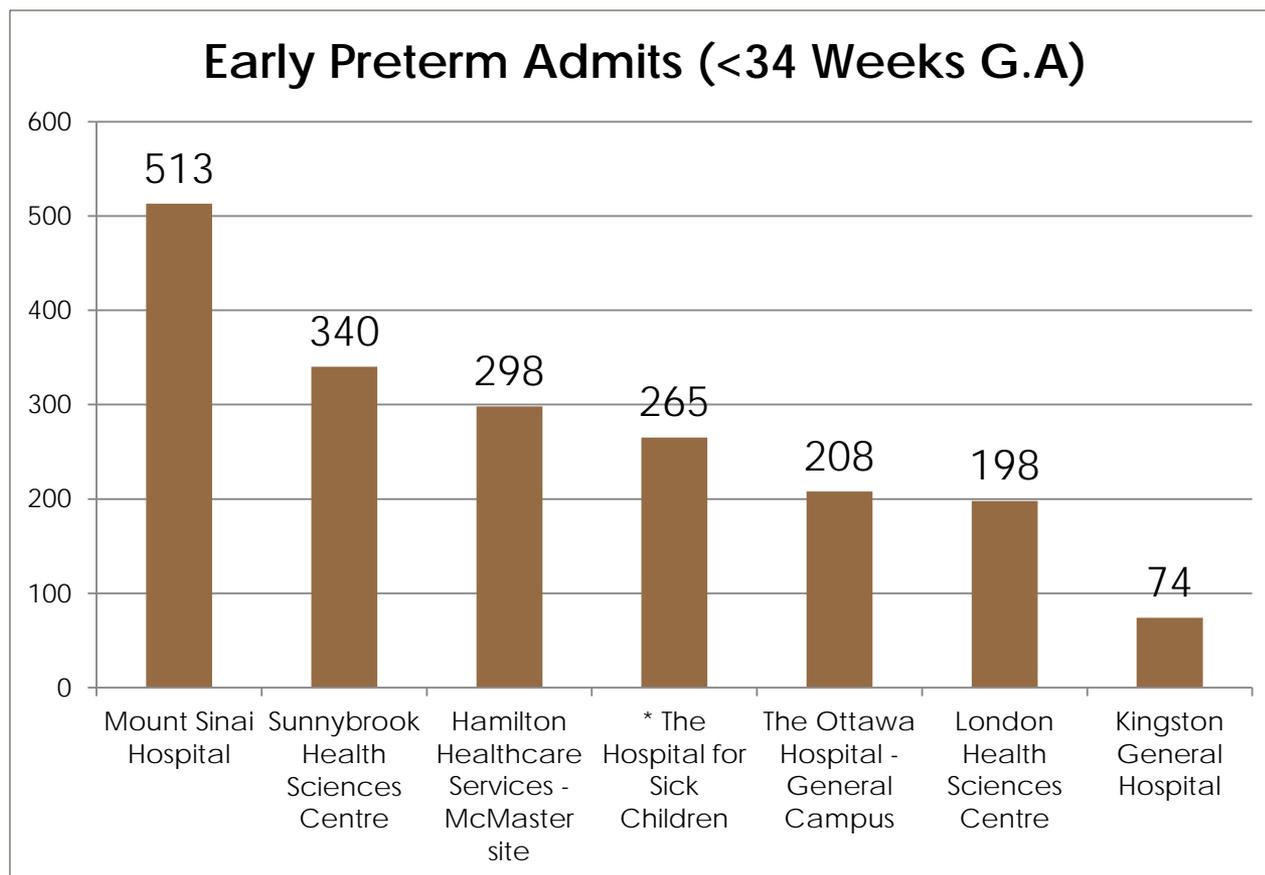


Early preterm births by LHIN reflect locations of tertiary Maternal Newborn hospitals

LHIN	Tertiary Hospitals
7	Mount Sinai Hospital
	Sunnybrook
	SickKids
4	McMaster Hospital
11	The Ottawa Hospital
	CHEO
2	London Health Sciences
9	Kingston General



Tertiary Centre Admissions < 34 weeks

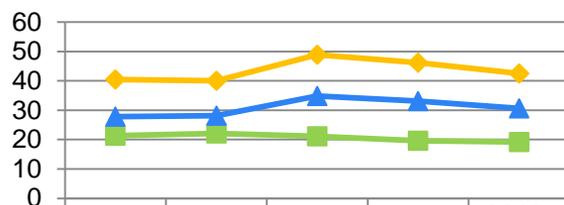


Early preterm admissions (births & transfers in) for tertiary centres from BORN 2016-17. No data for CHEO



Preterm Births - BFI Indicators

BFI Indicators –Early Preterm

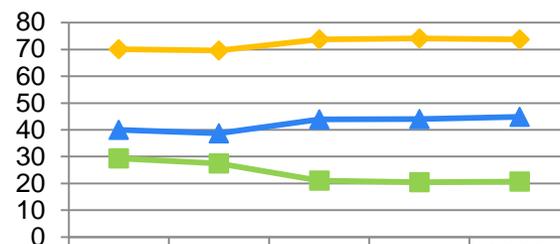


	2012-13	2013-14	2014-15	2015-16	2016-17 Q1-3
Initiation	40.5	40	48.9	46.2	42.5
Exclusive BF Rate	21.4	22.1	21.1	19.6	19.2
Adjusted BF Rate	27.8	28.1	34.9	33.1	30.6

Early Preterm Births (< 34 weeks GA)

n= about 2900 births/yr

BFI Rates – Late Preterm



	2012-13	2013-14	2014-15	2015-16	2016-17 Q1-3
Initiation	70.1	69.6	73.7	74.1	73.7
Exclusive BF Rate	29.3	27.5	21.1	20.5	20.7
Adjusted BF Rate	40	38.7	43.9	44	44.8

Late Preterm Births (34-36 weeks GA)

n= about 8200 births/yr

NOTE: Only 4/8 level III NICUs capture data in the BIS



PCMCH Survey – 2016

Sent to all level II and level III hospitals 38 responses

- Most sites indicated pumps available in hospital for use during visiting
- 16 have a program for loaning/ renting pumps including by hospital, on site with drug store, off site by community vendor
- Evenly split between Medela and Ameda
- 12/ 16 charge a rental fee
- 9 charge for breast pump kits
- One tertiary hospital estimates cost of double pump kits is \$24,000 annually

Process Review Tertiary Care



LHIN	Hospital	Rental Access	Kits Free?	Social Equity Strategy	Special Needs
2	London	Community Vendor	Social need	Yes plus MacDonald	Battery to Amish
3	Hamilton Health Sciences	Pharmacy or Community	Social need	SW case by case	
7	Mt Sinai	Pharmacy	Social need	Yes	
	SHSC	Vendor Partner	Yes to all	Manual as wait for Ontario Works	
	SickKids	Shop on site	No		
10	Kingston	Community	Disposable Q 72 hr	Public Health Interim loan OW	
11	CHEO	No program	One each		Out of Province
	Ottawa Civic	Auxilliary or Community	Social need	Yes	Out of province



Implementation – Early Thoughts

- MOHLTC committing annual base funding to support the implementation and ongoing running of the program
- Two optional models presented in business case
- May need to consider different options depending on hospital setting, volume of babies and where mother is staying

Proposed Principles

- ✓ Equity
- ✓ Access
- ✓ Patient Centric
- ✓ Safe
- ✓ Simple to understand and use
- ✓ Seamless
- ✓ Deliverable - Operationalize within organizational budgets
- ✓ Standardized and flexible
- ✓ Integration to support continuity



Model Components

MOU with MGH re roles and funding

Vendor Model

- Rent Breast Pump from the vendor
- Receive free Kit from the unit

In House Model

- Rent Breast Pump from the hospital
- Receive free Kit from the unit

Social Equity Strategy for All

- Pump and kit provided by hospital based on inability to access pump otherwise

Accountability



Hospital selects model



MOU signed by hospital with MGH Pumps for Preemies
Hospital implements model components with guidance
from P4P staff



Data for tracking use and impact collected
and provided by hospital



Hospital reimbursed by MGH
Data aggregated for MOHLTC report



Readiness for Change

Assessing the System





Are we ready for this change...

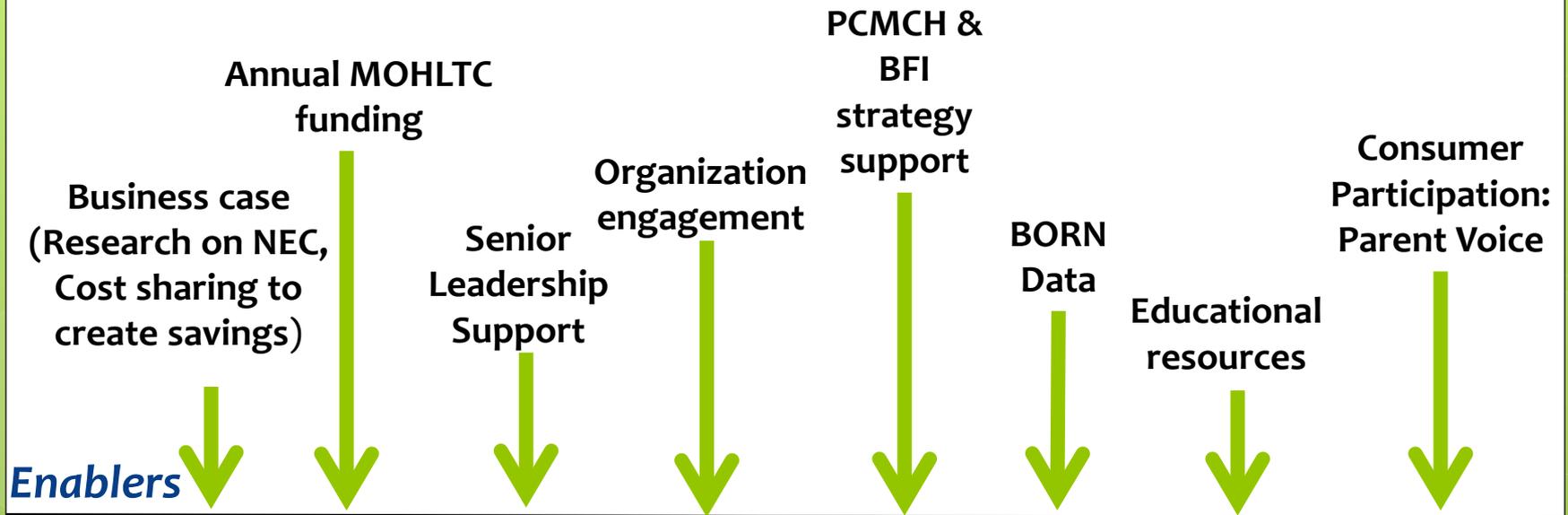
Who are the key stakeholders to involve in the planning?

Let's think about enablers and barriers

....think system and local levels...



System Readiness Scan



Are there other existing enablers that will support this initiative?

System Readiness Scan

Are there other barriers that will impede this initiative?

Barriers

No standardized toolkit / resources

No rental program

Loss of kits

Population w/o Credit Card

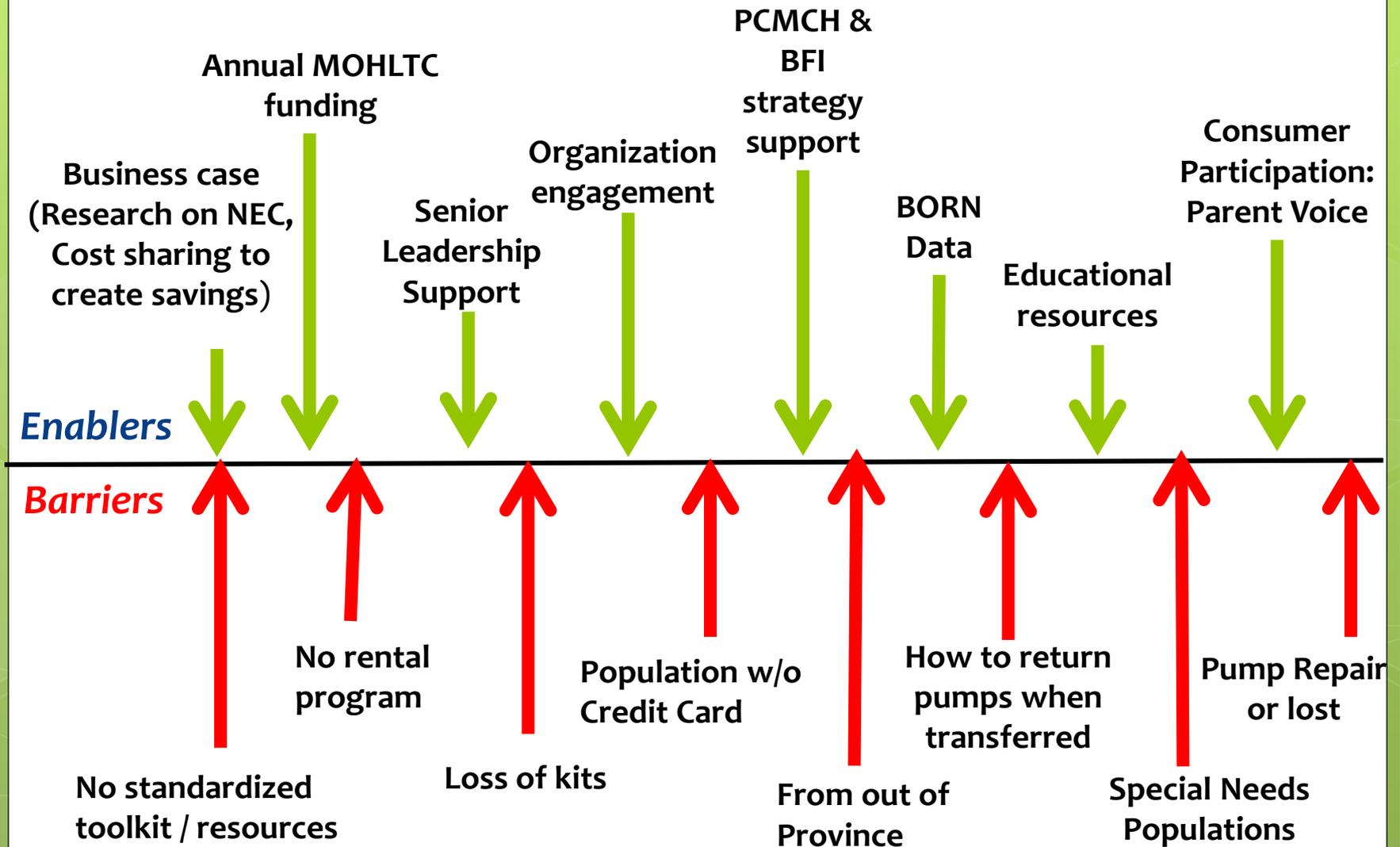
From out of Province

How to return pumps when transferred

Special Needs Populations

Pump Repair or lost

System Readiness Scan





Planning for Change





Tools and Resources

- Administrative resources –
Program implementation toolkit
- Staff education tools
- Patient education tools
- Public education/awareness
tools





Administrative Tools

Program Implementation Toolkit

- Background
- MOU
- Implementation models
- Guidelines and protocols (i.e., cleaning pumps)
- Introductory parent letter
- Data collection and reporting forms
- Evaluation surveys, tools

Anything else you would expect in the toolkit?





Staff Education

- Brief overview of program and implementation model components
- e-learning course
- Videos

Can you suggest resources we should look at?

What resources should we standardize?

The Hospital for Sick Children I-Learning Course

Supporting Mothers to Establish and Maintain a Breast Milk Supply

Supporting mothers to establish and maintain a breast milk supply



Patient Education

- Booklet on breastfeeding your early preterm baby
- Brief information about program and guidelines on accessing and returning pump
- Information on cleaning kits and pumps
- Videos

Are there other resources?

Can you share?

Should we standardize resources?



 **Sunnybrook**
WOMEN & BABIES PROGRAM

Time Code	Chapter
00:17:04 - 02:03:02	Dr. Peter Wong: The Importance of Breast Milk
02:03:02 - 02:53:07	Introduction with Laura McLean
02:53:07 - 04:38:04	Putting the Pump Kit Together
04:38:04 - 05:38:11	Creating a Comfortable Environment
05:38:11 - 07:13:29	Breast Massage
07:13:29 - 14:03:25	How to Use the Pump
14:03:25 - 17:28:16	Hand Expression
17:28:16 - 17:41:17	Skin Care
17:41:17 - 19:33:16	Milk Collection
19:33:16 - 20:08:10	Tracking Milk Volume
20:08:10 - 21:13:03	Frequently Asked Questions
21:13:03 - 22:02:08	Come-Along: Personal Reflection
22:02:08 - 22:12:31	Acknowledgements

SickKids: How to establish and maintain a breast milk supply for your hospitalized baby



Resources for Parents

Breastfeeding Your Early Preterm Baby

For the parents of: _____ Born: _____

Contacts/Telephone Numbers: _____

Growing a Baby-Friendly Ontario | Provincial Council of Women's Centres and Child Health Units | Michael Garron Hospital | Toronto East Health Network | best start meilleur départ | Ontario

Available in 18 languages

Breastfeeding Your Late Preterm Baby

Growing a Baby-Friendly Ontario | Provincial Council of Women's Centres and Child Health Units | Michael Garron Hospital | Toronto East Health Network | best start meilleur départ | Ontario

Mail out February



MGH Accountabilities to MOHLTC

- ❖ BORN data for baseline
- ❖ Advisory Committee
- ❖ Purchasing strategy for kits and pumps as required
- ❖ Multi site pilot
- ❖ Refinements to program model
- ❖ Engagement and implementation strategy for Ontario
- ❖ Assessing compliance with program guidelines
- ❖ Tracking use, outcomes and ongoing effectiveness
- ❖ Communications plan and information access strategy



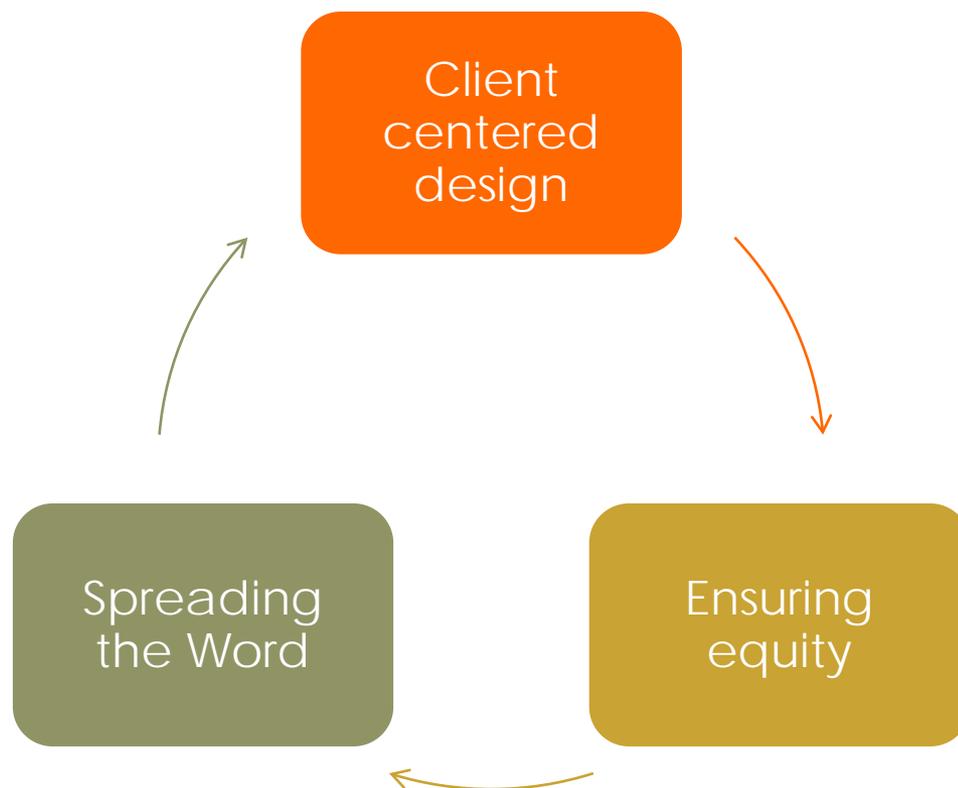
Sharing Your Thoughts

Make suggestions to help design
Pumps for Preemies





Market Place Discussions





Client Centered Design

- How can we involve moms in the planning for pumps for preemies?
- How and when should we engage mom in process of pumping ?
- How can we design the Pumps for Preemies program to address challenges that new moms encounter?
- What should be available for enhancing parent education and support?



The Equity Component

- Who should be included in the equity model? What criteria would you use to identify who qualifies?
- Suggestions on how to best administer this model?
- Additional challenges this group of moms may be facing?
- How do we minimize loss?



Spreading the Word...

Public Awareness and Education

- How should we use social media to support Pumps for Preemies?
- Strategies to announce the program when it is officially launched?
- Strategies for sharing resources...keeping people up to date?
- Informing families?





Market Place Ideas Report

- Report on highlights of discussion



Expected Costs

- All funding focused on system building strategy
- No grants
- Pump kits for all moms
- Pumps for equity model
- Pumps for hospital managed model
- Project Staff
- Equipment and Supplies
- Travel and communications

Is there anything else we need to consider?



Wrap Up

Next Steps





Evaluating the Pumps for Preemies Program

We will be partnering with BORN to track our progress and evaluate this initiative

What do you think success of this program will look like? How will we know we have been successful?

How should we evaluate this program?





Pumps for Preemies Change Strategy

Awareness	Engagement	Implementation	Sustainability
<ul style="list-style-type: none">• Webinars with key stakeholders• Preterm books mail out• Stakeholder contacts & relationships• Conference presentations• Advisory Committee• Purchasing strategy• Communication strategy• Social media platform• BORN baseline data	<ul style="list-style-type: none">• Process mapping for hospitals• Design model• Develop model components such as<ul style="list-style-type: none">- processes- parent letter- registration & tracking form- reporting strategy- MOU- client survey• Vendor relationships• Data requirements• Dashboard design• Gathering sample resources• Toolkit development• BORN refinement	<ul style="list-style-type: none">• Design pilot• Confirm sites• Conduct pilot• Revise tools/ model• Refine toolkit• Purchasing processes with Plexus• Resource design & standardization• Design roll out strategy• Coaching webinars and site visits	<ul style="list-style-type: none">• Ongoing audits• Data submission tracking• Dashboard• Quarterly reports• Evaluation• Annual report• CQI Strategy• Year end webinar





Next Steps

- Advisory Committee
- Ad hoc groups
 - Parents
 - Physicians
 - Vendors
- Pilot Design and Tools Development
- Purchasing infrastructure/ Working Group
- Implementation





Supporting Pumps for Preemies Implementation...

- Participating in tool design
- Providing/sharing resources
- Reviewer for materials
 - Toolkits
 - Patient education
 - Forms and other tools
- Participating in webinar discussions and local planning
- Sharing information and supporting hospital implementation
- Identifying links and missing stakeholders





...For sharing your ideas!



Pumps for Preemies



Questions

More ideas to share?

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