## CHRD 2021: Abstract & Poster Submission Form

**Submitter Name**  
Meg  
First  
Raymond  
Last

**Email**  
megeraymond@gmail.com

**Research Category:**  
- [ ] Basic Science  
- [x] Clinical  
- [ ] Community Health / Policy

**What was your role in the project?**  
- [ ] Design  
- [ ] Perform Experiments  
- [ ] Analyze Data  
- [x] Write Abstract

**Presenter Status:**  
- [ ] Undergraduate Students  
- [ ] Masters Student  
- [ ] PhD Student  
- [ ] Post-Doctoral Fellows  
- [x] Residents  
- [ ] Non-Trainee
Title
Perinatal factors associated with initiation of breastfeeding following very preterm birth <29 weeks in Manitoba.

Background
With multiple benefits for mothers and babies, exclusive breastfeeding for the first 6 months of life (and up to 2 years) is currently recommended. In preterm neonates, breast milk is protective against many complications of prematurity, yet difficult to initiate due to complexities of care in this population.

Objective
To determine feeding trends and perinatal characteristics associated with breastfeeding amongst very preterm neonates.

Methods
This was a retrospective cohort study using a national neonatal database. Preterm neonates delivered <29 weeks and admitted to NICU in Manitoba were eligible for inclusion (2015-2019). Maternal demographics, pregnancy complications, birth events, and postnatal course were available in the database as entered by trained abstractors using standardized definitions. Primary outcome was initiation and continuation of feeding with mother’s-own-(breast)-milk (“MOM”). Secondary outcomes were perinatal factors associated with MOM feeds. Descriptive and inferential statistics (student t-, chi-square, and Wilcoxon rank-sum tests) were used to compare outcomes between groups.

Results
Of 302 eligible neonates, 84.1% initiated feeding of MOM but only 40.4% continued to discharge. There was no change in the rates of discontinuation of MOM in the study period, but a significant reduction in initiation rates (p <0.0001; Figure 1). The perinatal factors negatively associated with initiation of MOM were multiparity (p=0.0001) and cigarette smoking (p=0.0011). Discontinuation of MOM prior to hospital discharge was significantly associated with earlier gestational age at birth (p=0.0002) as well as maternal characteristics including multiparity (p=0.0003), older age (p=0.0195), and cigarette smoking (p=0.0002).

Conclusion
While initiation of MOM was high amongst very preterm neonates, over half stopped breastfeeding during the NICU admission. Enhanced understanding of the key perinatal factors associated with non-initiation and discontinuation will improve targeted supports and quality improvement strategies promoting breastfeeding in this high-risk group.
Figure 1. Trends in initiation and continuation of feeding MOM and usage of donor breast milk by year of study.
## Authors

For each author, please click "[+] Add Item" and provide the author's information

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Role</th>
<th>Profession</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Meg Raymond</td>
<td><a href="mailto:megeraymond@gmail.com">megeraymond@gmail.com</a></td>
<td>Presenting Author</td>
<td>Resident</td>
</tr>
<tr>
<td>Dr. Christy Pylypjuk</td>
<td><a href="mailto:cpylypjuk@hsc.mb.ca">cpylypjuk@hsc.mb.ca</a></td>
<td>Co Author</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Molly Seshia</td>
<td><a href="mailto:MSeshia@hsc.mb.ca">MSeshia@hsc.mb.ca</a></td>
<td>Co Author</td>
<td>Full Professor</td>
</tr>
<tr>
<td>Dr. Ruben Alvaro</td>
<td><a href="mailto:ralvaro@hsc.mb.ca">ralvaro@hsc.mb.ca</a></td>
<td>Co Author</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. Michael Helewa</td>
<td><a href="mailto:MHELEWA@sbgh.mb.ca">MHELEWA@sbgh.mb.ca</a></td>
<td>Co Author</td>
<td>Full Professor</td>
</tr>
<tr>
<td>Dr. Deepak Louis</td>
<td><a href="mailto:dlouis@hsc.mb.ca">dlouis@hsc.mb.ca</a></td>
<td>Co Author</td>
<td>Assistant Professor</td>
</tr>
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