# **Perception and Practices of Breastfeeding in Dominican Mothers in the Dominican Republic**

Kylie Mena, MD; Rafael Mena, MD; Laura Ward, MD, IBCLC; Chunyan Liu, MS; Shelley Ehrlich MD, ScD; Javier Gonzalez del Rey, MD, MEd; Amy Rule MD, MPH

# Background

Breastfeeding has shown to provide the optimal nutrition, offering many benefits for both infants and their mothers.

Breast milk is associated with decreased risk of respiratory and gastrointestinal infections, otitis media, childhood leukemia, and obesity. Additionally, breastfeeding enhances cognitive and psychomotor development. Maternal benefits include a decreased risk of postpartum hemorrhage and postpartum depression, and reduced risk of some cancers and the development of type 2 diabetes. As a result, exclusive breastfeeding for at least the first 6 months is the recommendation of the American Academy of Pediatrics and the World Health Organization.

In the 2013 report from Encuesta Demográfica y de Salud, sixmonth exclusive breastfeeding rates within the Dominican Republic (DR) were only 7% despite report that 82% of babies less than two months had received breast milk. Multiple studies suggest early initiation of complementary foods in the DR could be contributing to the low exclusivity rates.

## **Objectives**

- Explore current practices in infant feeding in the DR while assessing facilitators and barriers to exclusive breastfeeding.
- Evaluate breastfeeding perceptions and knowledge gaps in the DR. Stratify data based on demographics to determine whether there are significant differences in practices, facilitators, barriers, and knowledge about infant feeding.

# Methods

- Location: Hospital Maternidad Nuestra Señora de la Altagracia in Santo Domino, Dominican Republic
- **Study population**: Mothers in the NICU and post-partum unit who spoke Spanish or English.
- Study Type: Cross-sectional survey that explored infant feeding practices and perceptions surrounding infant feeding.

## **Demographics**

## Table 1 (n=79)

Mean Age	27.4 years (range: 14-41)
Median gravidity	2 (range: 1-10)
Median parity	2 (range: 1-10)
Demographic Data	Percent
<i>Country of Origin:</i> Dominican Republic Haiti Peru	87% 11% 1% (1 participant)
Reported Financial Insecurity	79%
First time mothers	31.6%
Mothers with ≥1 premature infant	28%
History of C-Section	90%

# Results

# PRACTICES



Rate (n=52\*)

Yes (32.6%)



No (60%)

Pump (61%)

Both (7%)

56% decided to breastfeed before baby was born and 39% decided while in the hospital.



Hand Expression (32%)





Complementary Food Introduction (n=55)





44% gave infants water between 0-3 months of age





# **Results (cont.)**

- 93% of mothers appropriately agree breastfed infants are
- 99% agree breast milk is the ideal nutrition for infants
- 95% of mothers agreed breast milk is easier to digest
- 81% of mothers *incorrectly* believe mothers have all the milk they need on the day infant is born
- 69% of participants *incorrectly* thought that the nutritional benefits of breastfeeding only last until infant is weaned
- 97% of participants thought breastfeeding improves bond
- 52% believe formula is best if mother is to work outside the home with 59% feeling breastfeeding makes it hard to return to work. Mothers of multiple children, however, are more likely to disagree with these statements compared to mothers of one child (p=0.027, p=0.012 respectively).
- 53% think it is hard to tell when a breastfed infant is

- This population had similar breastfeeding initiation rates as prior studies, but a higher exclusive breastfeeding rate than
- Most participants view breastfeeding in a positive light, though have high rates of formula use despite high levels of financial
- Opportunities for improving breastfeeding exclusivity include prenatal education with emphasis on breastmilk expression, complementary food and water introduction, and expectations
- Future studies should focus on those opportunities and explore the impact of financial insecurity on breastfeeding

- Thank you to The Global Health Center and the GROW Award committee for funding my travel and supplies including
- Thank you to the faculty and staff at Hospital Altagracia for

Kylie Mena packaging diapers to provide to mothers participating in the study.