

Problem

Breast milk provides newborns with optimal nutrtional support, improved immunological defense, and better neurodevelopmental outcomes.

In 2019, Vermont Oxford Network published national data on breast milk administration at discharge in the very low birth weight infants population, there was variability based on ethnicity but also geographical location.

In our data (demographics: 62% African American, 27% Hispanics, 8% Caucasians), we found that only 31% of VLBW infants received any breast milk at discharge. Although our data was similar to the VON data, we wanted to improve the low percentage of infants receiving breast milk at discharge.

Our **team** consist of NICU physician, NICU fellows, NICU hospitalist, UIH Pediatric residents, NICU bedside nurses, lactation nurses, and patient's family.

Smart AIM:

Our QI initiative aims to improve the rate of maternal breast milk administration at discharge by 8% from Sept 2019 to August 2021 for newborns born <34 weeks or <1500 grams admitted to the UIH NICU from birth.

Project Implementation

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Our team developed a process map and a key driver diagram (Figure 1) to help guide development of our test of change the PDSA cycles.	PDSA Cyle #	Date	PDSA Focus	Description
	1	2/1/2021	Early Reward Recognition	Pilot Early Reward Recognition with 3 infants with feedback
	2	2/1/2021	Breast Milk Bundle	Pilot Physician/nurse bundle checklist with 3 infants with feedback
	3	2/16/2021	Flyers	Pilot Flyers distributed with admission packet on breast milk or 10 infants with feedback
Outcome measure: Percent of infants born <34 weeks or <1500 grams discharged with breast milk.	4	2/16/2021	EMR	Pilot EMR handoff on information pertaining to breast milk with 3 infants with feedback
	5	2/16/2021	Early Reward Recognition	Pilot Early Reward Recognition (modification #1) with 3 infants with feedback
	6	2/24/2021	Breast Milk Bundle	Pilot Physician/nurse bundle checklist (with modification #1) with 4 infants
 Process measure: Compliance in Flyers Early recognition reward Physician bundle checklist RN bundle checklist 	7	2/24/2021	EMR	EMR handoff on information pertaining to breast milk
	8	3/2/2021	Breast Milk Guided Script	Pilot guided script on breast milk to deliver consistent message on 3 infants with feedback
	9	3/15/2021	Poster	Poster on breast milk hung in x2 locations in the NICU
	10	3/19/2021	Breast Milk Bundle	Physician/nurse bundle with modify #2 with 6 infants
Balance measure: Length of stay, maternal stress, increase workload on resident/hospitalist and RN.	11	4/9/2021	Flyers	Flyers distributed with admission packet on breast milk
	12	4/27/2021	Early Reward Recognition	Early Reward Recognition increase maternal support
	13	5/3/2021	Physician/nurse guided script	Guided script on breast milk to delivery consistent message
	14	5/9/2021	Breast Milk Log	Review of breast milk log with 3 infants with feed back
	15	6/19/2021	Breast Milk Log	Review of breast milk log



