

AAP DISTRICT VIII SECTION ON NEONATAL PERINATAL MEDICINE

2021 ANNUAL CONFERENCE QUALITY IMPROVEMENT ABSTRACT SUBMISSION FORM

Presenting Author: Ravi Krishnan, MD

Institution: Providence, St Mary Medical Center

Street Address: 18300 HWY 18, Apple Valley, CA 92307

Telephone: 702-324-8254

E-Mail: neobabe1960@hotmail.com

Trainee? Yes No

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Signature: Dr. Ravi Krishan (see attached for signature page) Date: 02/14/2021

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DEADLINE FOR RECEIPT OF ABSTRACT IS FEBRUARY 19, 2021. Submissions will be accepted for either poster or oral presentation. Authors will be notified of acceptance and format for presentation (poster or poster symposium) by **March 12, 2021.**

Title: Breast Milk Utilization in the NICU and Beyond; A Four Year Performance Improvement Multidisciplinary Approach

Authors: Ravi Krishnan, MD; Irfan Ahmad, MD; Victoria Anene, MD; Dushant Oza, MD; Hemant Saini, MD; Dilip Patel, MD; Rosa Ortega, RN; Shawna Leeper, RN; Stacy Mott, RN; Mendy Hickey, RN; Jessica Nordeck, RN; Lisa Mieir, RN; Wendy Johnson, RN; Nora Straw, RN; Rohun Krishnan, Research Assistant; Shaun Saini, Research Assistant

Institution: Providence, St Mary Medical Center

Background:

- 212 Adult Inpatient Beds
- 14 Bed Level III Community NICU
- 2300 Annual Deliveries
- 300 Annual NICU Admissions
 - 25% out born admissions
 - 30% very low birth weight admissions <1500g

Aim/Objective

Increase breast milk utilization for all NICU admissions and promote post discharge breast milk utilization, from our 2016 baseline of 52.84% and achieve and maintain the goal of 62.84% by December 2020, which would be a 10% absolute gain.

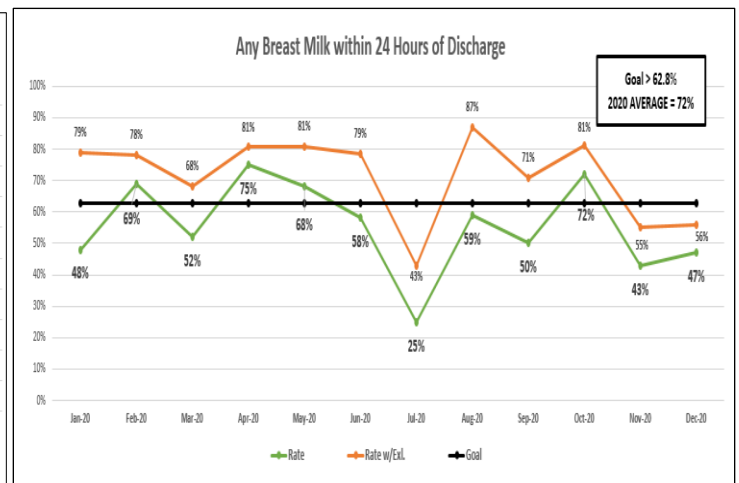
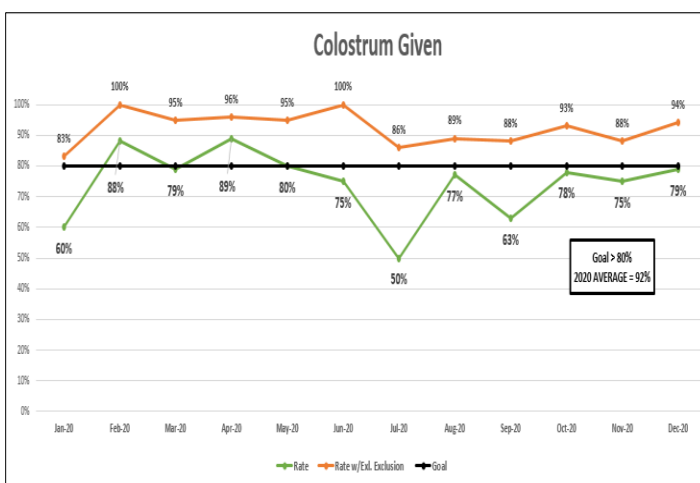
Planning/studying the intervention (PDSA cycles)

Improvements were driven through nursing education during the first PDSA cycle and through lactation audits in subsequent PDSA cycles. Lactation support for hand expression, education, and facilitating physician's referrals to breastfeeding support clinic led to significant improvements in use of breast milk at discharge. Regular audits, caregiver education and team work were the key drivers to success.

Measures (Process and outcomes indicators)

1. Breast Pump Initiation within 6 hours of NICU Admit
2. Lactation Consult for all NICU Admits
3. Referral to Mommy & Me Breastfeeding Support Group at Discharge
4. Multivitamin with Iron Prescribed at Discharge

Analysis/Outcomes/results (run or control charts, changes in delivery process, outcomes, balancing measures)



Summary/Discussion

Colostrum usage has significantly improved to between 90%-100% on a consistent basis. Standard practice has been implemented for the following process measures with a success rate of 90%-100% consistently over the past year- Breast Pump Initiation, Lactation Consult, Referral to Breastfeeding Support Group and Multivitamin prescribed at Discharge. In addition, standard practice has been implemented for Neonatologist to counsel mothers on breastfeeding and lactation support during any prenatal consults. Implementation of Donor Human Breast Milk within the facility has helped improve success rates of both colostrum usage and breast milk within 24 hours of discharge. We continue to maintain rates for any breast milk within 24 hours of discharge for all NICU admits.