## Key Driver Diagram: NeoQIC Human Milk Quality Improvement Collaborative

## **Potential Change Concepts Primary Aims Primary Drivers Secondary Drivers** Lack of education at prenatal consultation Train NICU staff to better Overall Project Goal educate families Process Measure: Document parent education on human milk benefits at Develop education materials Inadequate parental education *Increase the use of* for families prenatal consultation. mother's own milk (MOM) Develop prompts in the EMR to in very low birth weight document education delivery Lack of postnatal education in the NICU infants in Massachusetts Early pumping or hand expression is not Training L&D and postpartum initiated staff to facilitate early pumping and hand expression Process Measure: Time (hours) to first Ensure readily available pumps **Inadequate MOM initiation** pumping or hand expression and early expression kits on Among VLBW infants in MA, by Dec 31, Process Measure: Time (hours) to L&D and post-partum areas 2017: administer MOM (oral care or Lack of technical support for mothers Increase the use of any MOM 24 enteral) Expand lactation expertise, such as hours prior to discharge or transfer Process Measure: Documented contact with IBCLCs, peer-counselors, or nurses from a baseline of 63% to ≥ 75% an IBCLC or equivalent personnel in first 24 with more advanced training in Increase the use of exclusive MOM hours of life lactation 24 hours prior to discharge or transfer from a baseline of 45% to ≥ 55% Improve awareness of benefits Inadequate time performing skin to skin Increase monitoring by staff 2) Outcome Measures: Percent of VLBW Ensure availability of bedside **Process Measure:** Any skin to skin infants receiving any or exclusive MOM Inadequate MOM continuation supplies, such as chairs performed with the mother on DOL 7, 14, 21, in the 24 hours prior to NICU discharge & 28 or transfer Process Measure: Any/exclusive Expand lactation expertise, MOM used at DOL 7, 14, 21, 28 especially peer-counselors Mothers do not pump regularly Development of peer-support breastfeeding groups Lack of motivational support for mothers Encourage family support **Balancing Measures** Lack of training in establishment of direct Inadequate preparation for Rate of NEC and any late infection Establish home feeding regimen breastfeeding breastfeeding during hospitalization that maximizes direct in the home environment Growth during hospitalization Process Measure: Any MOM up to 12 breastfeeding prior to (weight for gestational age z-score months corrected age post-discharge (to be discharge (use nipple shields)

collected by DPH on WIC mothers only)

Visit by IBCLC prior to discharge

change from birth to discharge or

transfer)