## **INSPIRING SUCCESS:** The Journey to a **NEC Free NICU**

#### Authors

Claire Hamilton MN RN, Thomas Sproat MBChB MD, Christel Wood, RN, IBCLC, Jill-Marie Spence RD, Megan Knauff, RD, MPH, Kelsey Groenenboom MN NNP, Ayman Abou Mehrem MD, FABP, MSc, Gemma Boardman, BSc, RN, Megan Roy MD, Ashley Harder RN, and Belal Alshaikh MD, MSc, MSCE. On behalf of the Foothills Medical Centre EPIQ Team







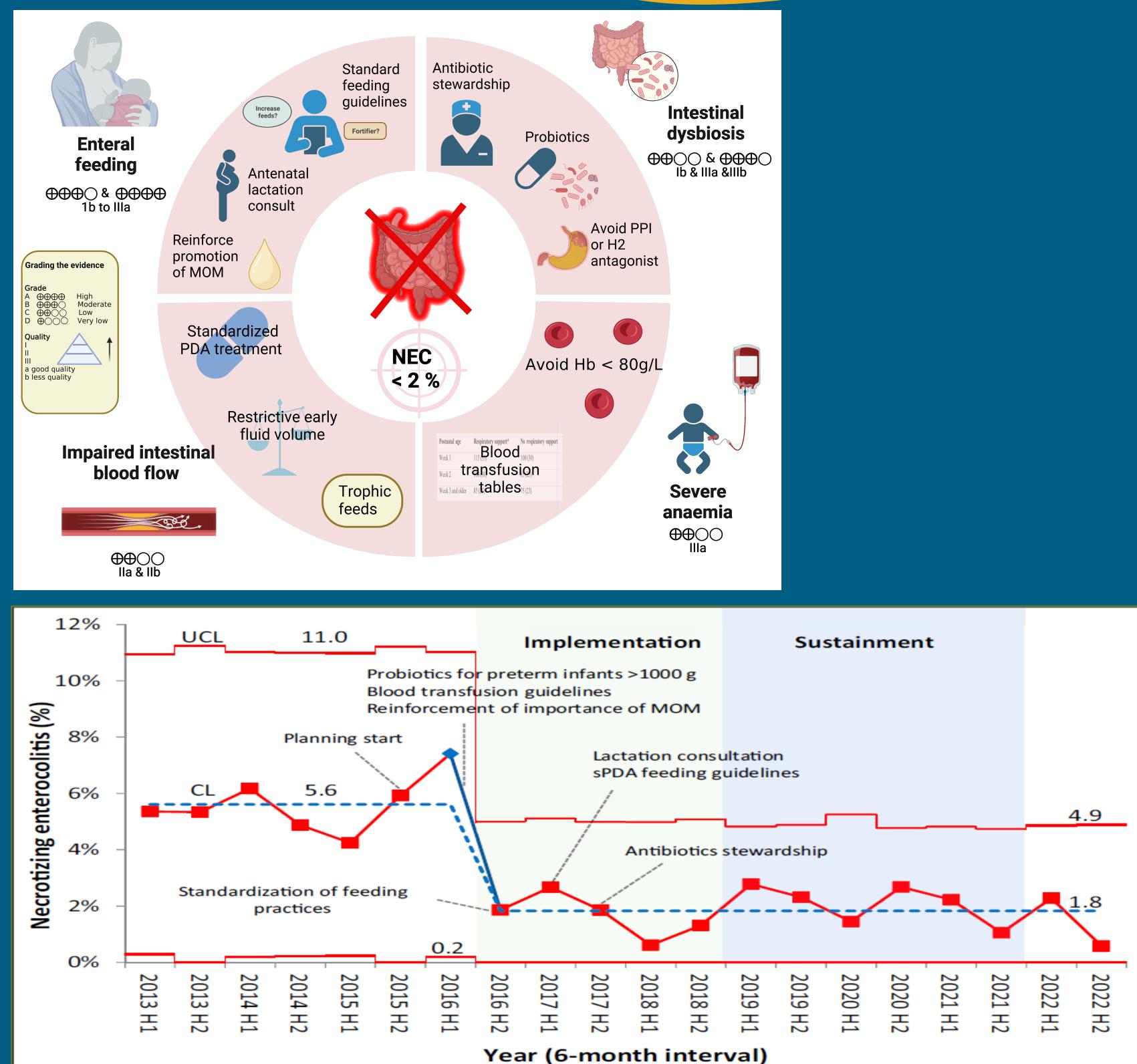


### **Project Aim**

Using a multi-pronged approach to reduce the incidence of NEC among infants born  $\leq 32$  6/7 weeks gestation in the Calgary Zone NICUs to  $\leq 2\%$  within 2 years.



Quality Improvement Initiatives intestinal microbial aberrations



EPIQ

Check out our publication in Pediatrics!

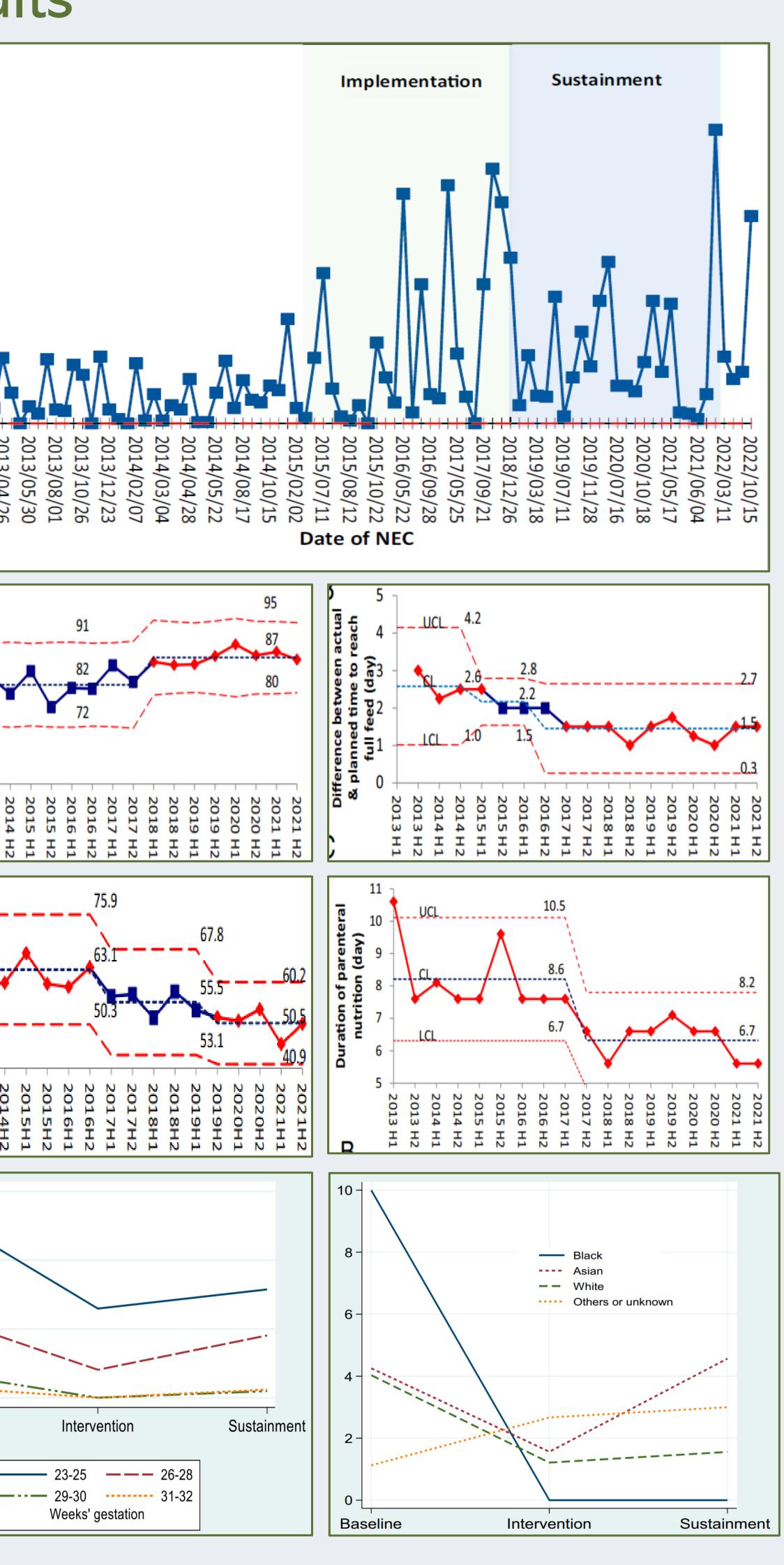
## to increase MOM, improve feeding regimen compliance, feed conservatively during blood transfusion & PDA treatment, and preventing are associated with reduced NEC.

# Results 250 (day) 200 150 NEC Baselin - 23-25

- Learnings
- resulted in sustained NEC rates  $\leq 2\%$
- Multidisciplinary practice guidelines (bundles) • Project also resulted in:
  - Increased breastmilk usage at discharge • Fewer days to reach full enteral feeding

  - Shorter duration of empirical antibiotics
  - Higher percentage of decreased NEC in Black infants

## Next Steps



• Fewer Parenteral Nutrition days

Population / ethnicity-based interventions to close the disparity gap between groups