

TIPQC Chronic Lung Disease (CLD) Key Driver Diagram

AIM

Primary Aim:
25% Relative reduction
(over last 3 years
institutional baseline) in
Chronic Lung Disease in
Infants less than or
equal to 29.6 weeks
gestational age in
participating TN NICUs
by June 2025.

Secondary Aim:
10% relative reduction
(over last 3 years
institutional baseline) in
Grade 3 BPD in infants
less than or equal to
29.6 weeks gestational
age in participating TN
NICUs by June 2025.

Primary Drivers

Improve the Culture of Care, Awareness,
& Education

Identification and Diagnosis

Antenatal Management

Delivery Room Management

Surfactant Administration

Ventilation Strategies

Medications

Change Ideas/Potentially Better Practices

Establish a multidisciplinary QI Team

Develop guidelines to implement PBP

Develop parent education

Education/training for all providers specific to CLD

Room air challenge prior to 36 weeks PMA

Antenatal corticosteroids

Antenatal magnesium

Early CPAP

T-piece use

Surfactant in delivery room, if intubated

Surfactant < 2 hours of life, when indicated

Optimal INSURE/LISA when possible

Gentle ventilation guidelines

Implement strategies to reduce extubation failure

Implement strategies to reduce unplanned extubations

Implement strategies to reduce unplanned extubations

Early and high dose Caffeine

Risk based post-natal steroids

Vitamin A in centers with high rates of CLD

Prevention of hyperoxia (aim for 0.21 by DOL 28)