

TIPQC Severe Intraventricular Hemorrhage (sIVH) Key Driver Diagram

AIM

Primary Aim:
25% relative reduction
(over last 3 years
institutional baseline) in
severe intraventricular
hemorrhage (Grade III &
IV) in infants less than or
equal to 29.6 weeks
gestational age in
participating TN NICUs
by March 2024

Primary Drivers

Appropriate Obstetrical Management of
High-Risk Pregnancies

Optimal Management of Birth

Avoid Fluctuations in Cerebral Perfusion

Neuro Developmentally Appropriate
Care

Change Ideas/Potentially Better Practices

2 doses of prenatal steroids

Additional rescue steroid dose when indicated

MgSO₄ for neuroprotection

Outreach education & initiating appropriate therapy during transfer

Delayed Cord Clamping at least 60 seconds

Optimal Resuscitation

Prevention of Hypothermia

Early Surfactant administration when indicated

Head Positioning

Avoid Rapid Fluctuations in Systemic BP

Avoid Hyper/Hypoventilation

Maintain a normal pH

Avoid Rapid fluctuations in osmolarity

Minimize noxious stimuli

Minimize Handling

Ppx Indomethacin

Minimize sound, light, and pain exposure

Appropriate pharmacologic as well as non pharmacologic measures
to reduce procedural pain

Appropriate developmental position

Kangaroo care within 1 week