Eliminate late onset (>72 hours) bacterial blood stream and CSF infections in infants in Ohio NICUs

OPQC
Neonatal
Key
Driver
Diagram

SMART Aim: In one year we will reduce late onset (>72 hours) blood stream/CSF infections in infants 22-29 weeks gestational age by 50% in Ohio NICUs.

Appropriate and safe use of central lines

Excellent hand hygiene

**Culture of quality** and safety

Protect infant's skin integrity

Maintain optimal nutritional level

Appropriate and safe use of endotracheal tubes

Prior to insertion, assess: is catheter really necessary?

## Insertion Bundle

Excellent Hand Hygiene

Use of maximal sterile barriers

Appropriate use of CHG or PI for site preparation

Dedicated team for placement and maintenance

All supplies required should be available at the bedside prior to catheter insertion Insertion checklist utilized

Staff empowered to stop non-emergent procedure if sterile technique not followed

## Catheter Maintenance Bundle

Excellent Hand Hygiene

No lodine ointment used

Daily Assessment if line is necessary

Review dressing integrity and site cleanliness daily

Use "closed" systems for infusion, blood draws & medication administration

Assemble and connect infusion tubing using aseptic or sterile technique.

Configure tubing consistently for each type of vascular access device

Configure tubing consistently for each type of vascular access device

Scrub needleless connector using friction with either alcohol or CHG for at least 15 sec. prior to entry. Allow surface to dry prior to entry

"secret" observers

Data feedback

Use pre-filled flush containing syringes wherever feasible

Staff empowered to stop procedures if sterile technique not followed

Perform investigation and analysis of each CABSI

Competent trained personnel to perform specialized maintenance activities

Education for all staff caring for catheters

Spread maintenance practices to off unit service areas

Knowledge & Awareness

- Coaches
- Educate all staff
- Skills labs

Proximity & Availability of Supplies

Personal Hygiene

Daily Scrubbing

Hand Washing Indications & Technique

"See and speak" re: hand washing

Routine Surveillance

## Quality

Collect and report outcome data—display on unit!

Benchmark unit results with other units

Exchange best practices with other units

Evaluation of root causes and common causes of all BSI ASAP

See and speak culture

Handling protocols

Safe use of tape and other adhesives

Appropriate and safe peripheral line use

Reduce the number of skin punctures

