NeoQIC Respiratory Care Collaborative

Kick-Off
December 3, 2019



Agenda

10:30 – 11:00	Check In & Registration	
11:00 – 11:30	Welcome and Introductions	
11:30 – 11:40	Why a Respiratory Care Collaborative	
11:40 – 12:15	Presentation of Vermont Oxford Network Data & Practice Survey Results	
12:15 - 1:00	Lunch	
1:00 - 1:10	QI for BPD: Does it Work? A Brief Review of the Literature	
1:10 - 1:20	Approaches to Collaborative QI: What Approach Do We Take?	
1:20 – 2:00	Team Time! Identifying a Specific Aim for Local QI Efforts and Report Out	
2:00 – 2:30	Next Steps	



New Collaborative Website: https://www.neoqicma.org/rcc

Password: neoqic2020

You may visit now or after the meeting to download meeting materials.



Welcome and Introductions

Please introduce your group and tell us ONE area of respiratory care your NICU would like to improve



Why Form a Respiratory Care Collaborative

Lawrence Rhein



Practice Survey and VON Results

Helen Healy



Delivery Room and Transport



Delivery Room Management of Very Preterm Infants

	Default preset FiO2 for initial resuscitation	Routinely use of a T-piece resuscitator
А	30%	Yes
В	30%	Yes
С	30%	Yes
D	30%	Yes
Е	30%	Yes
F	30%	No
G	30%	Yes
Н	21%	No
I	21%	No



Nasal CPAP in the Delivery Room

Hospital Code	Response	
A, B, C, E, G	RAM cannula and a T-piece resuscitator	
В	Nasal prongs or nasal mask and a T-piece resuscitator	
F, H	Nasal prongs or nasal mask and a bubble CPAP system	
	Nasal prongs or nasal mask and a ventilator	
D, G*	CPAP is only provided with bag and face mask or T-piece and mask	



Nasal CPAP during Transport from delivery room to NICU

Hospital Code	Response	
A, B, C, E, G	RAM cannula and a T-piece resuscitator	
С	RAM cannula and a ventilator	
F, H	Nasal prongs or nasal mask and a bubble CPAP system	
	Nasal prongs or nasal mask and a ventilator	
D	CPAP is only provided with bag and face mask or T-piece and mask	



Mechanical Ventilation



Α	Drager & Maquet	SIMV	Pressure
В	Drager & Maquet	SIMV	Volume
С	Puritan Bennett 980	SIMV	Pressure
D	Avea	SIMV with PSV	Pressure
E	Drager	Assist Control	Volume
F	Drager		Volume
G	Drager	SIMV with PSV	Pressure

First mode

SIMV or AC

SIMV with PSV,

changing to AC volume

SIMV

Volume or pressure-

Volume

Pressure

based ventilation first

Pressure, changing to volume



Н

Hospital

Code

Ventilator

Brand(s)

Maquet

Drager &

Hamilton

Maquet

Hospital Code	Pressure support ventilation for very preterm infants	
Α	Used in selected clinical circumstances	
В	Routinely used	
С	Rarely used/Used in selected clinical circumstances/ Used PSV as tool to assess readiness for extubation	
D	Routinely used	
E	Used in selected clinical circumstances	
F	Routinely used	
G	Routinely used	
Н	Routinely used/Used as tool to assess readiness for extubation	
I	Routinely used	
J	Routinely used	



Hospital Code	Use of high-frequency ventilation High Frequency Mode	
А	Rarely, only as a rescue	HFOV
В	Frequently, only as a rescue	HFOV ,HFJV
С	Rarely, only as a rescue	HFOV
D	Frequently, only as a rescue	HFOV ,HFJV
E	Rarely, only as a rescue	HFOV ,HFJV
F	Frequently, only as a rescue	HFOV ,HFJV
G	Rarely, only as a rescue	HFOV
Н	Rarely, NOT only as a rescue mode	HFOV
	Frequently, only as a rescue mode	HFOV ,HFJV
J	Frequently, only as a rescue mode	HFOV ,HFJV



Non-Invasive Support



Hospital Code	Available CPAP Types	Preferred First Type of CPAP
А	Bubble & Ventilator CPAP	Either (depending on medical team, equipment availability, etc.)
В	Ventilator CPAP	Ventilator CPAP
С	Ventilator CPAP	Ventilator CPAP
D	Bubble & Ventilator CPAP	Bubble CPAP
E	Ventilator CPAP	Ventilator CPAP
F	Bubble & Ventilator CPAP	Bubble CPAP
G	Ventilator CPAP	Ventilator CPAP
Н	Bubble & Ventilator CPAP	Bubble CPAP
	Bubble & Ventilator CPAP	Bubble CPAP
J	Bubble & Ventilator CPAP	Ventilator CPAP



Hospital Code	Facial Interface Types Used for CPAP	Brand Used
Α	Nasal prongs & Nasal cannula	Hudson & RAM cannula
В	Nasal prongs, Nasal mask & Nasal cannula	RAM cannula & Fisher & Paykel
С	Nasal cannula	RAM cannula
D	Nasal mask & Nasal cannula	RAM cannula
Е	Nasal cannula	RAM cannula
F	•	RAM cannula (restricted) & Fisher & Paykel
G	Nasal cannula	RAM cannula

Hudson, INCA, & Fisher & Paykel

RAM cannula & Fisher & Paykel

RAM cannula & Fisher & Paykel

Nasal prongs & Nasal mask

Nasal prongs & Nasal cannula

cannula

Nasal prongs, Nasal mask & Nasal



Н

How do you use RAM Cannula?

Hospital Code	Response	
B, C, E, G, J	We use RAM as the preferred/only interface for delivering CPAP	
A, F	We use RAM, but restrict its use to certain groups of infants (such as those above a certain gestational age, those weaning on respiratory support, etc.)	
D, I commonly switch to it if other modes (prongs or rare not being tolerated		
Н	We do not have RAM cannulas in our NICU/never use them	



Do you rotate facial interfaces?

Hospital Code	Response	
D, I	Yes, rotate on a set schedule	
F	Set schedule is a bit loose and sometimes ignored	
A, B, H, J	No, one interface is used unless and until needing to be switched for clinical reasons	
C, E, G	No, we only have use single interface	



How is NIPPV Used?

Hospital Code	NIPPV Is Used
Α	Rarely
В	Often
С	Often
D	Often
E	Often
F	Rarely
G	Often
Н	Rarely
l	Rarely
J	Often



Surfactant Policies

Hospital Code	Response
A, E, J	Use rescue surfactant - do not have specific criteria for when to use it (i.e., if an infant qualifies is based on medical team assessment)
B, F, G, H, I	Use rescue surfactant - infants are intubated and given surfactant when they meet very specific predetermined clinical criteria
С	Give prophylactic surfactant for infants under a specific gestational age or birth weight (i.e., automatic intubation and surfactant).
D	No, the decision to use 'prophylactic' vs. 'rescue' surfactant is made for each individual infant



INSURE/LISA

Hospital Code	Response
C, J	Don't have a policy and rarely/never use INSURE or LISA (or similar methods)
A, D, E, F, H, I	Don't have a written policy but do use INSURE or LISA (or similar methods) at times
В	Have a written policy and use INSURE or LISA (or similar methods)
G	Other: LMA/Surfactant method



Caffeine Use

Hospital Code	Response
A, B, C, D, E, F, G, I	Have a protocol directing the routine use of prophylactic caffeine for all infants meeting specific age and/or weight criteria, regardless of whether an infant is intubated or not
J	Does not have a specific practice, the admitting team may decide to use prophylactic caffeine if they feel it is indicated



iNO Use

Hospital Code	Response
A, B, E, F, I	iNO is never used for prevention or treatment of BPD but is used in select preterm infants with suspected or diagnosed pulmonary hypertension
C, D, G, J	iNO is used rarely as rescue therapy in preterm infants with extremely severe BPD
Н	Never used in preterm infants by policy



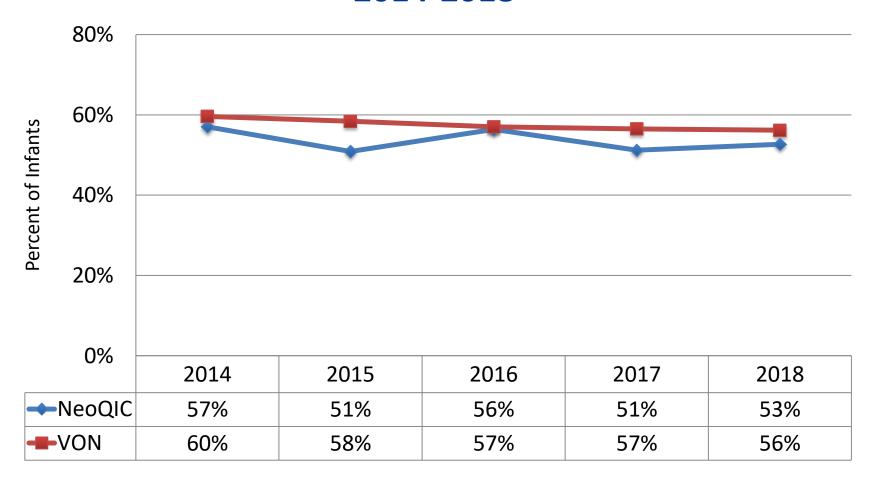
Vermont Oxford Network Data



Ventilation Use

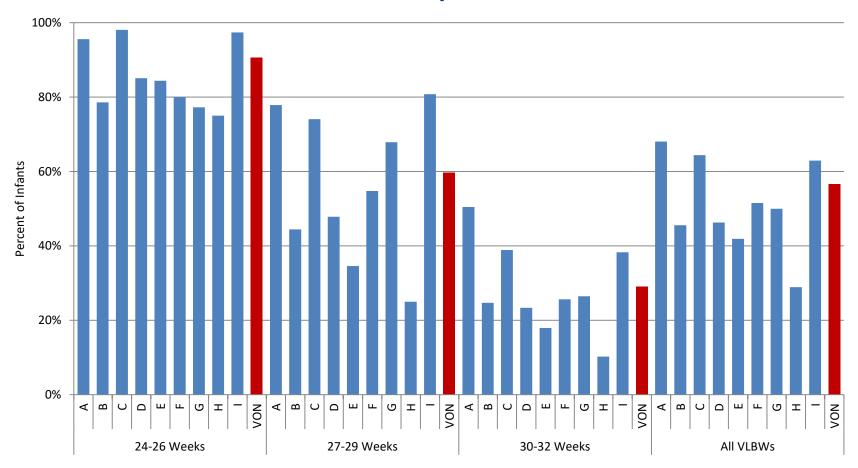


Any Mechanical Ventilation, VLBW Infants 2014-2018



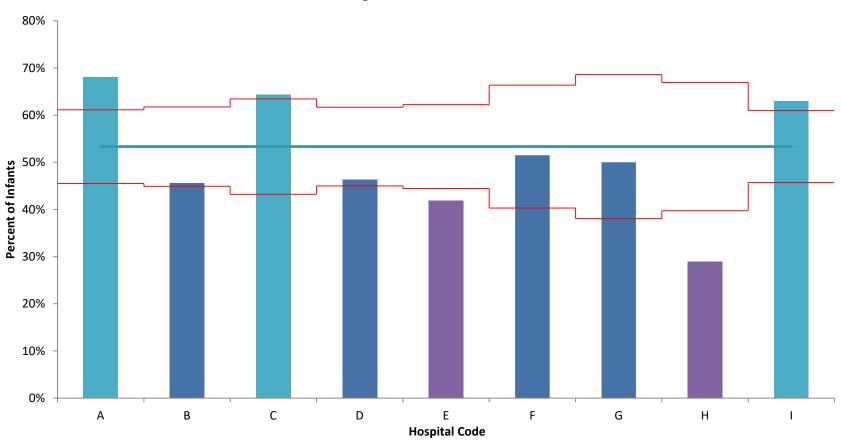


Any Mechanical Ventilation by GA VLBW Infants, 2016-2018



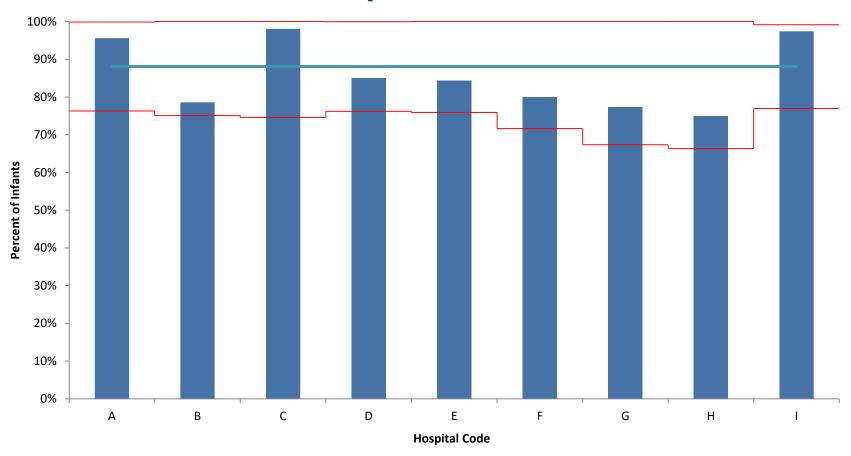


Any Ventilation, all VLBW, 2016 – 2018 p Chart



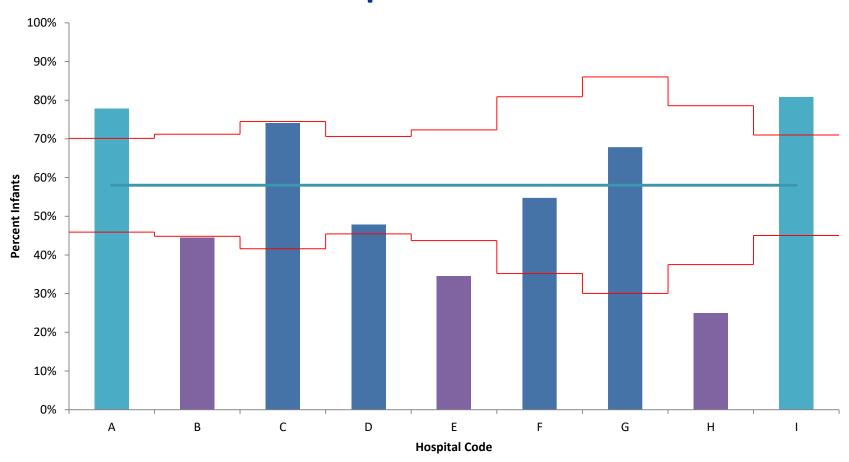


Any Ventilation, 24 - 26 wks GA, 2016 - 2018 p Chart



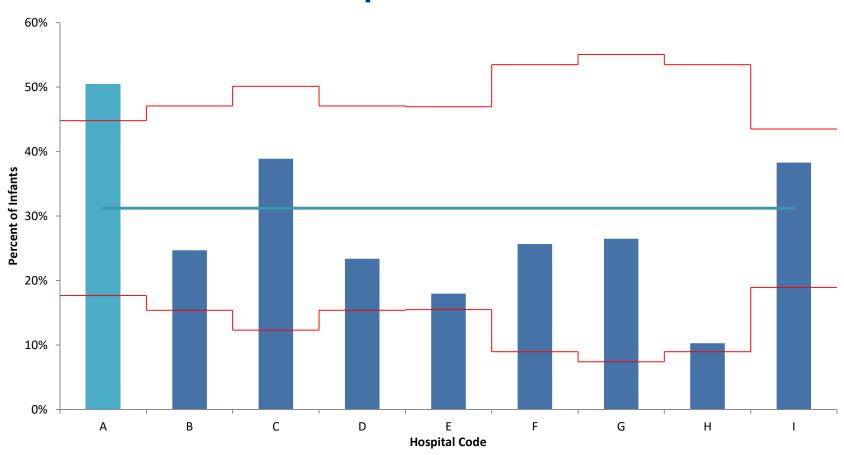


Any Ventilation, 27- 29 wks GA, 2016 - 2018 p Chart



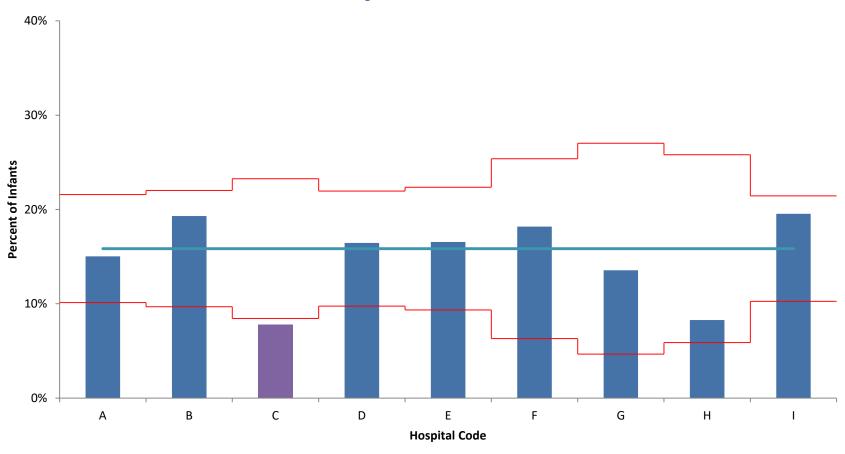


Any Ventilation, 30 - 32 wks GA, 2016 - 2018 p Chart





High Frequency Use, All VLBW, 2016 - 2018 p Chart



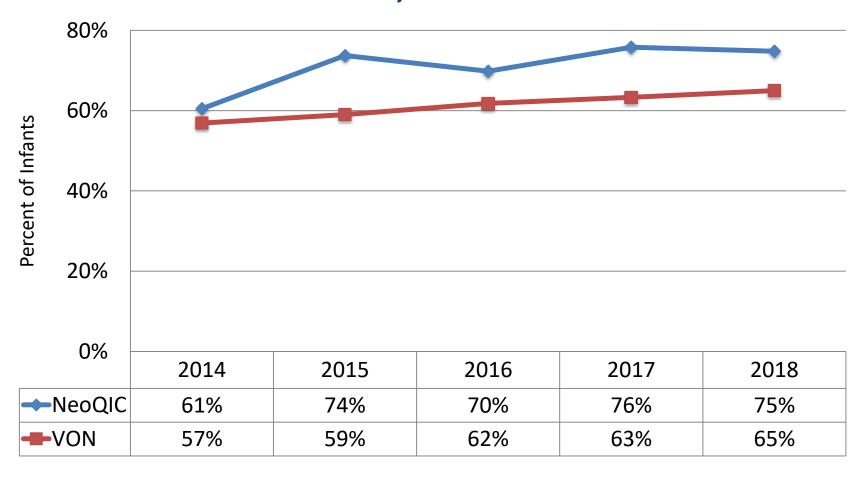


Non-Invasive Support

NIV = non-invasive ventilation = nasal ventilation (positive pressure ventilation via nasal prongs or face mask, including NIPPV, BiPAP, and nasal high-frequency ventilation)

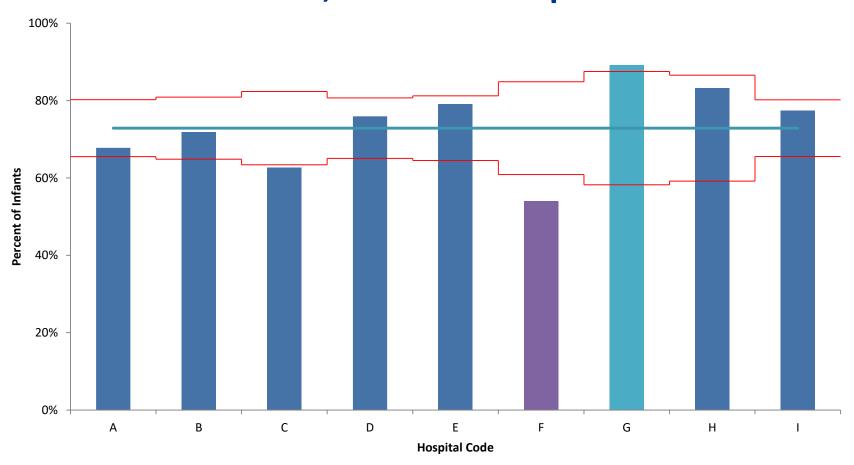


CPAP or NIV Trial before or without ETT all VLBW, 2014 - 2018



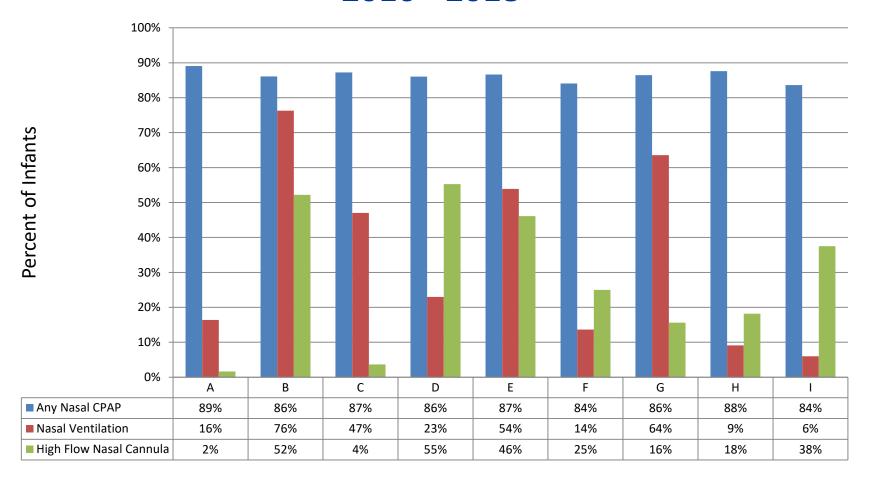


CPAP or NIV Trial before or without ETT All VLBW, 2016 - 2018 - p Chart



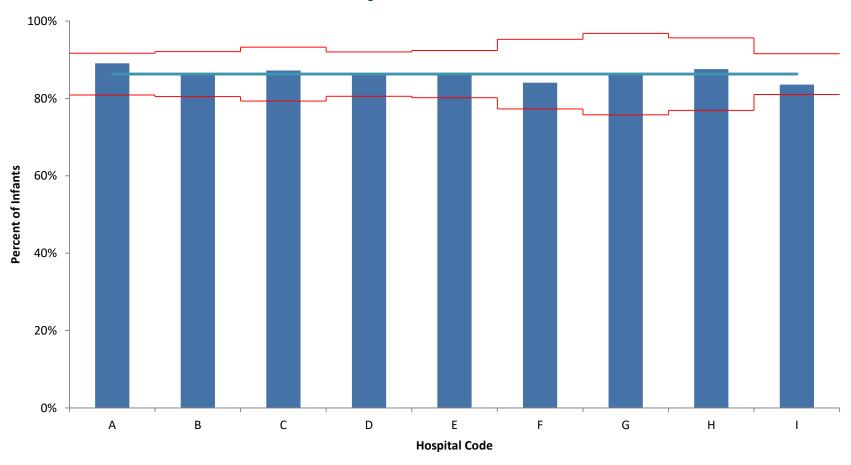


Non-Invasive Support Modes, all VLBW 2016 - 2018



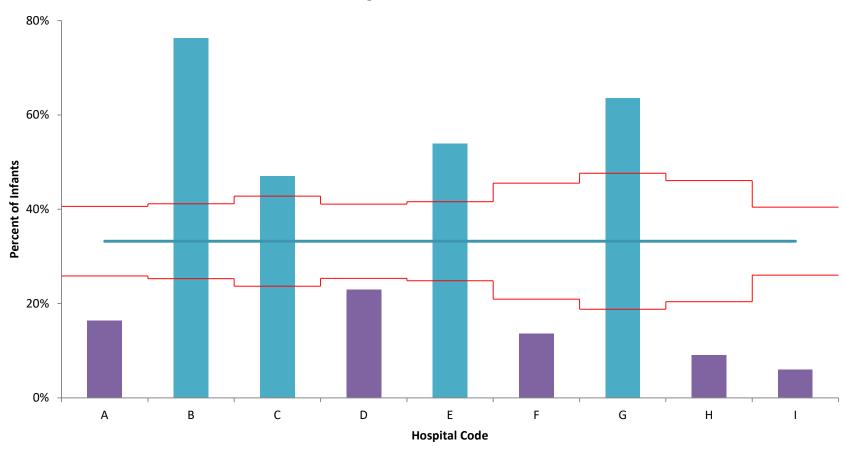


Nasal CPAP Use, All VLBW, 2016 – 2018 p Chart



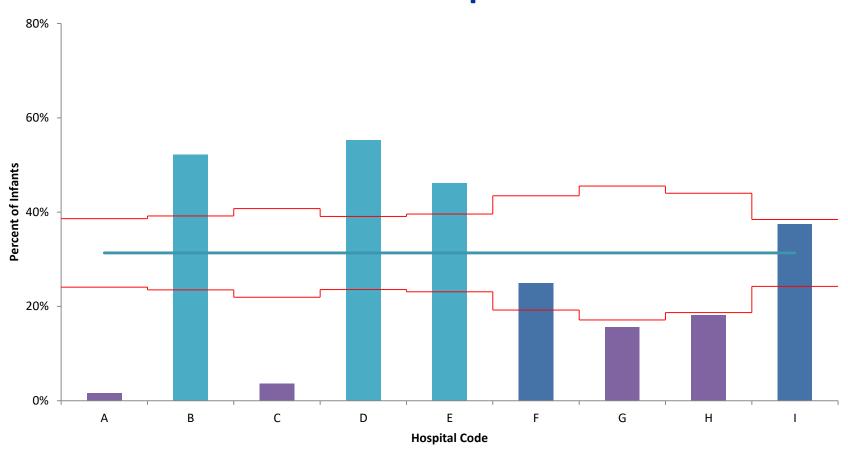


Nasal Ventilation, All VLBW, 2016 – 2018 p Chart



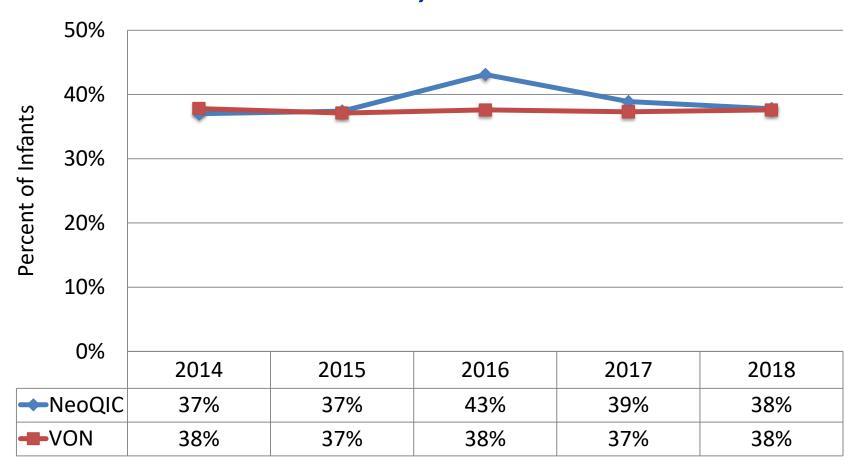


High Flow Nasal Cannula Use, All VLBW 2016 - 2018 - p Chart



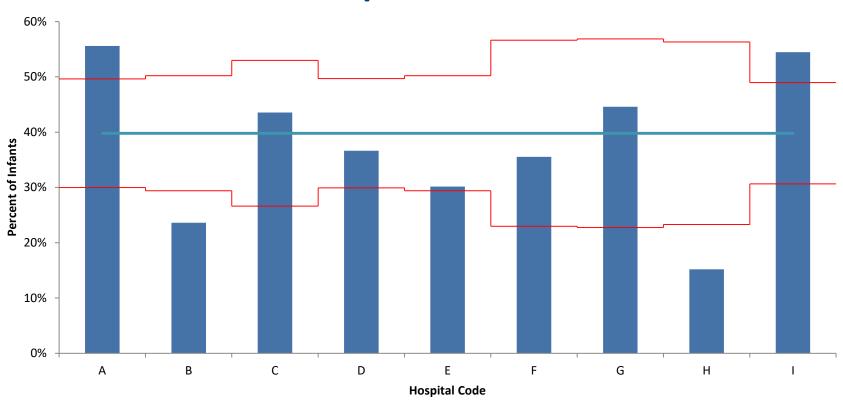


Intubation and Ventilation After Trial of CPAP or NIV, 2014 - 2018





Intubation and Ventilation After Trial of CPAP or NIV, 2016 – 2018 p Chart

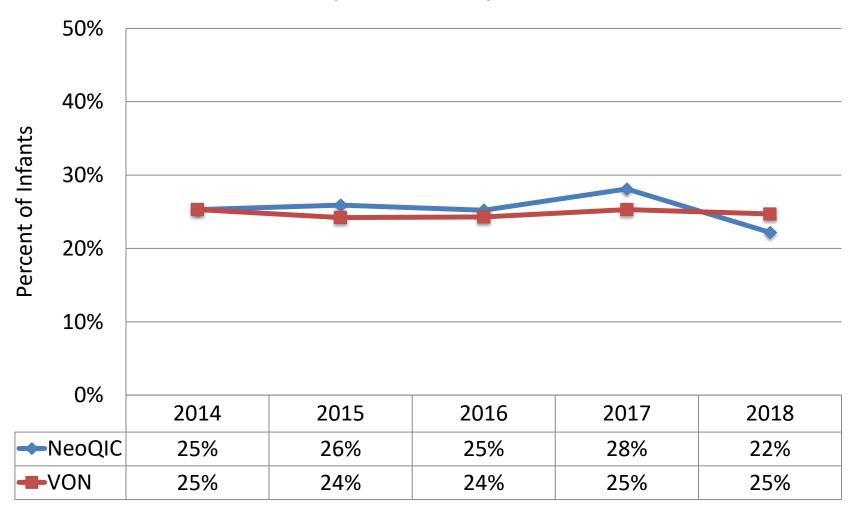




Outcomes

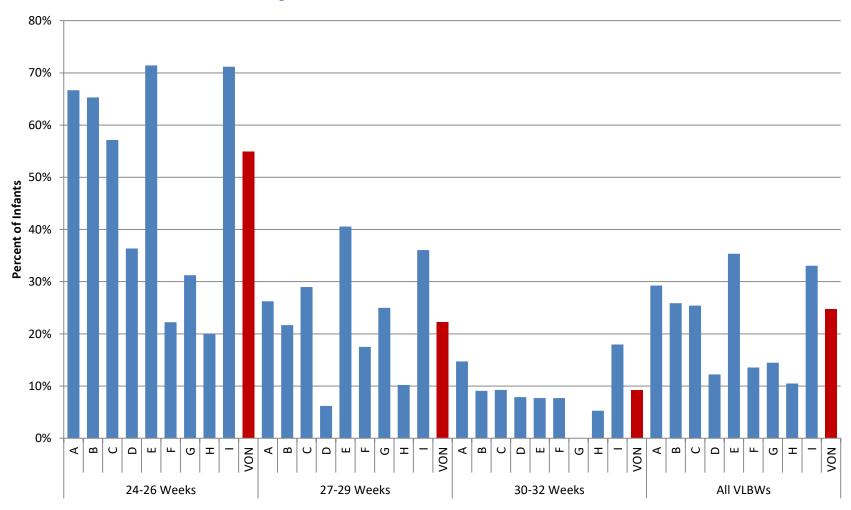


CLD Rates, all VLBW, 2014-2018



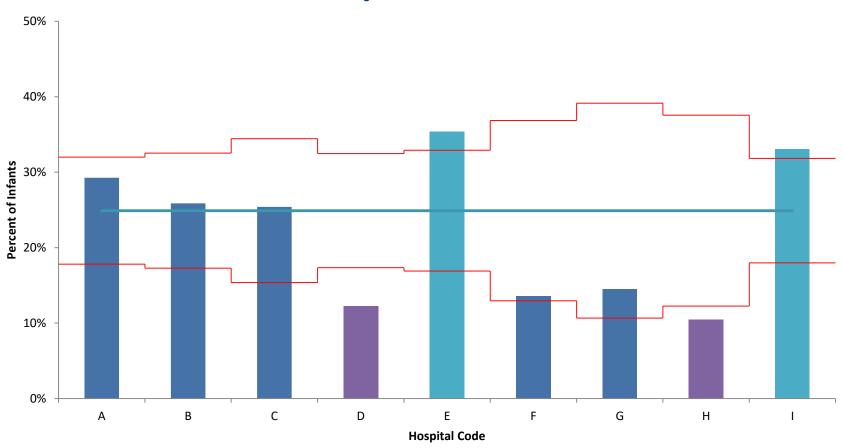


CLD Rates by GA, VLBW Infants, 2016-2018



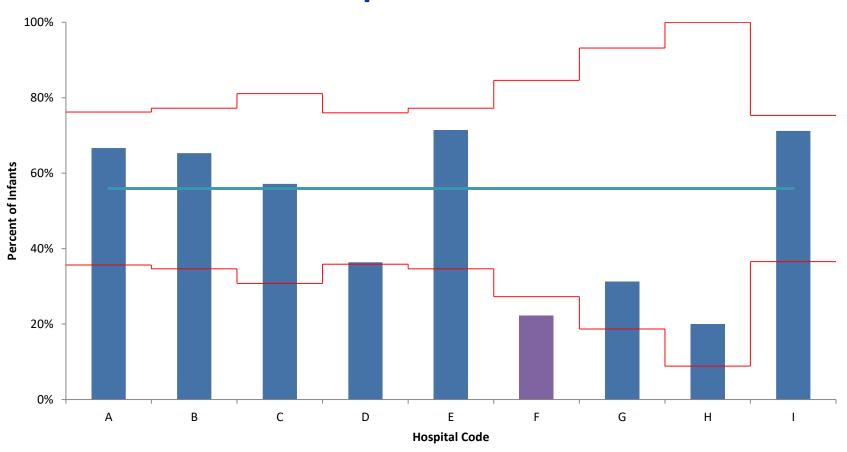


CLD Rates, all VLBW, 2016 – 2018 p Chart



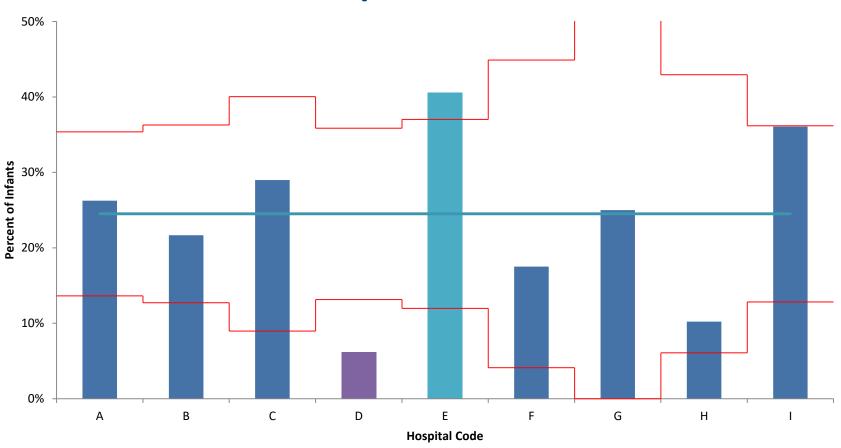


CLD Rates, 24 - 26 wks GA, 2016 - 2018 p Chart



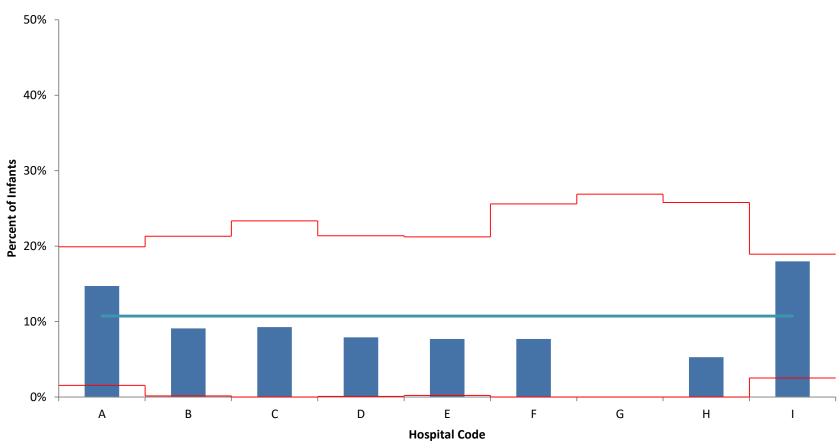


CLD Rates, 27 - 29 wks GA, 2016 – 2018 p Chart



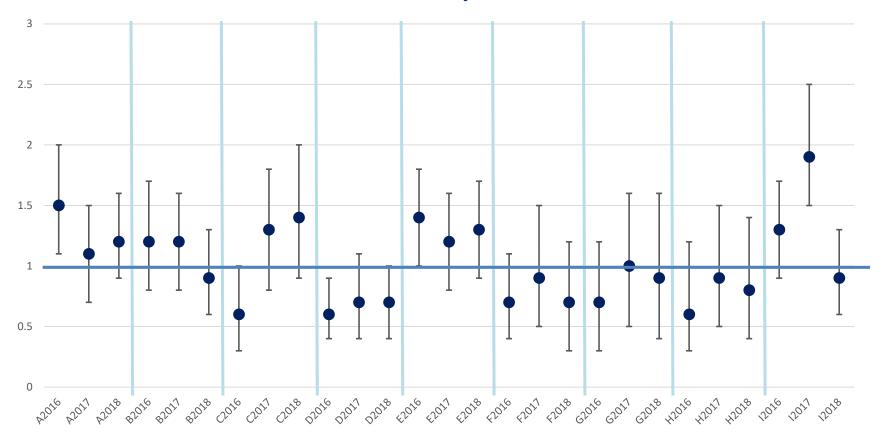


CLD Rates, 30 - 32 wks GA, 2016 - 2018 p Chart



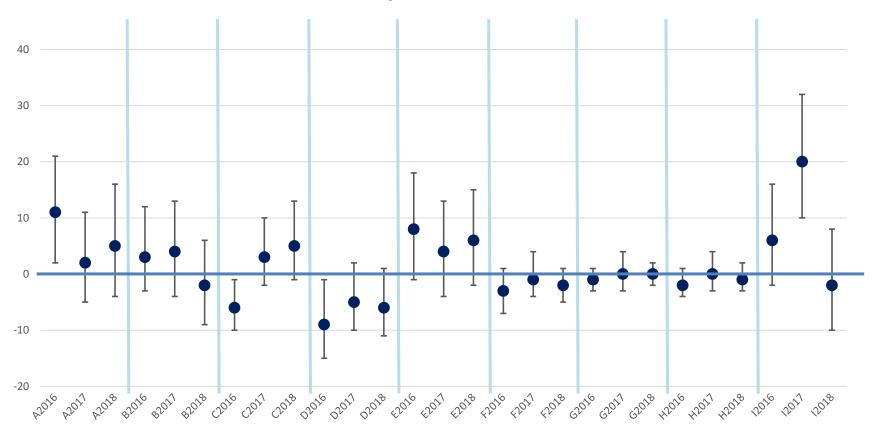


Shrunken Standardized Morbidity Ratio for CLD and 95% CI, 2016 - 2018





Observed Minus Expected Cases of CLD and 95% CI, 2016 - 2018



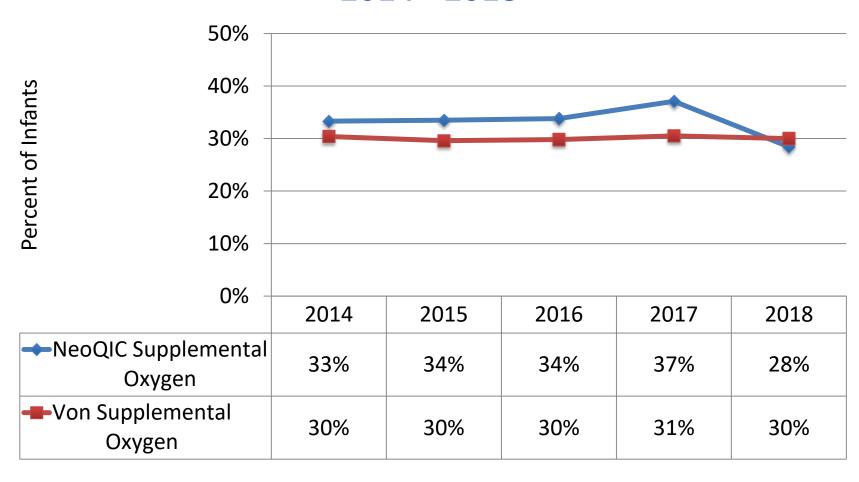


SMR and O-E by Hospital and Year

Hospital Code	Year	SMR(Shrunken)	O-E(Shrunken)
Λ	2016	1.5	11
	2017	1.1	2
Α	2018	1.2	5
В	2016	1.2	3
	2017	1.2	4
	2018	0.9	-2
	2016	0.6	-6
С	2017	1.3	3
	2018	1.4	5
	2016	0.6	-9
D	2017	0.7	-5
	2018	0.7	-6
	2016	1.4	8
Г	2017	1.2	4
E	2018	1.3	6
	2016	0.7	-3
г	2017	0.9	-1
F	2018	0.7	-2
	2016	0.7	-1
\boldsymbol{C}	2017	1	0
G	2018	0.9	0
Н	2016	0.6	-2
	2017	0.9	0
	2018	0.8	-1
	2016	1.3	6
ı	2017	1.9	20
<u> </u>	2018	0.9	-2

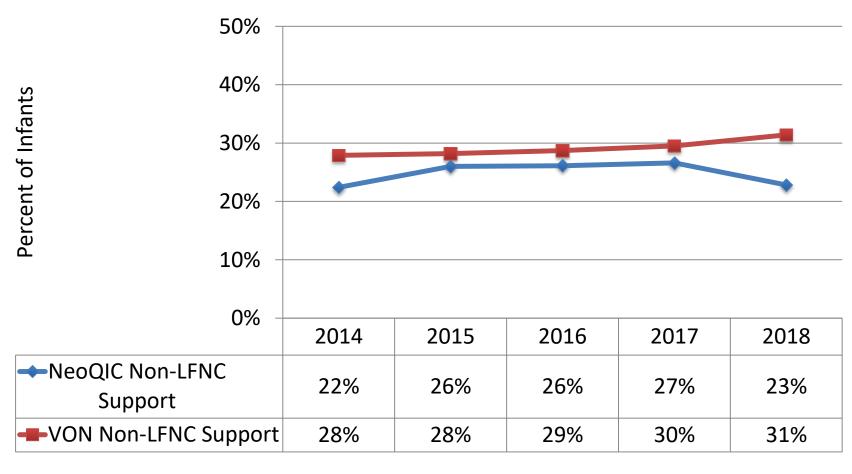


Supplemental Oxygen at 36wks, all VLBWs, 2014 - 2018



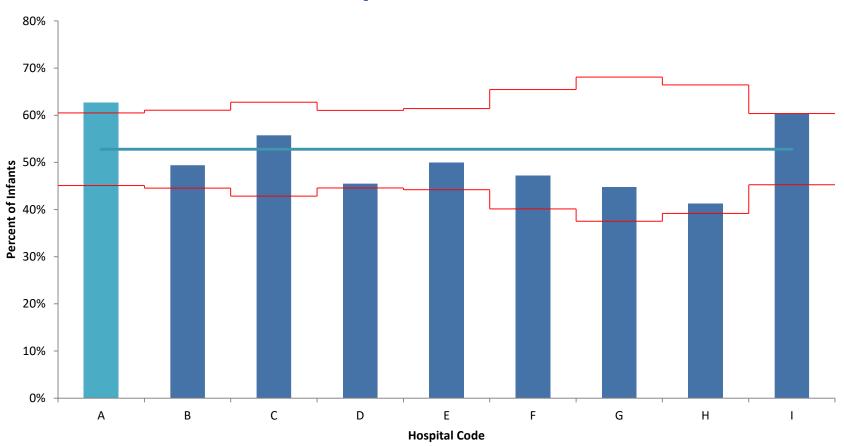


Support Beyond Supplemental Oxygen at 36wks, all VLBWs, 2014 - 2018



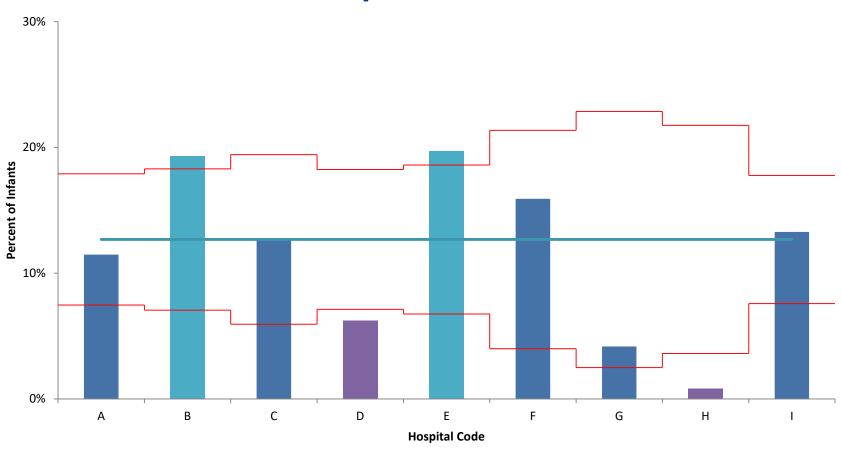


Surfactant Use, all VLBW, 2016 – 2018 p Chart



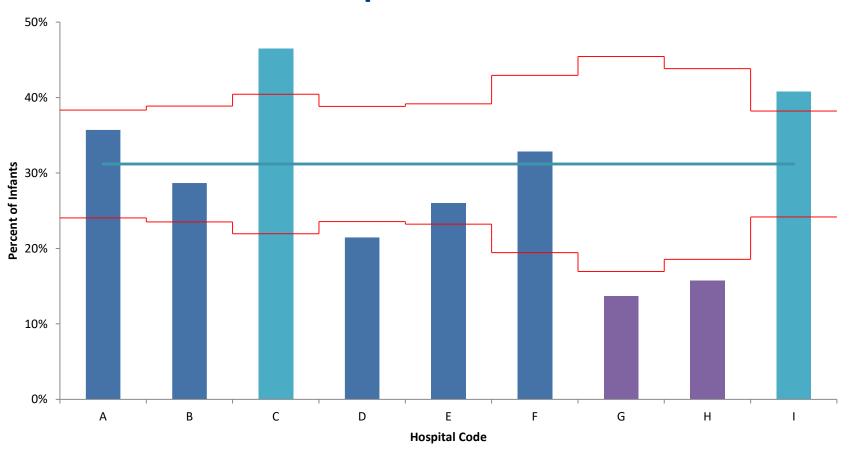


Steroids for CLD, all VLBW, 2016 - 2018 p Chart



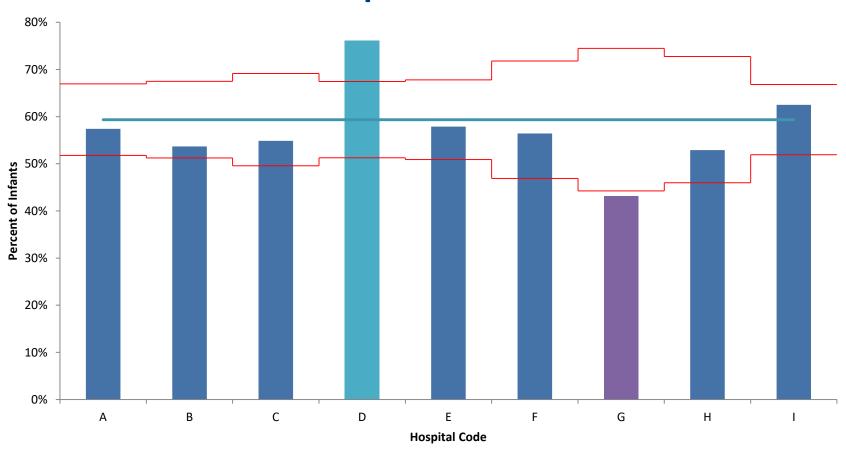


Intubation in the DR, All VLBW, 2016 - 2018 p Chart





Nasal CPAP in the DR, All VLBW, 2016 - 2018 p Chart





Thank you for submitting your data and taking our survey!



QI for BPD: Does it Work? A Brief Review of the Literature

Helen Healy



Potentially Better Practices





Potentially Better Practices

Non-Invasive Support

- CPAP
- NIPPV
- HFNC
- NAVA

Modes & Delivery Interfaces

Invasive Support

- Conventional Ventilation
 - Pressure v. Volume
- High Frequency
- Intubation/Extubation

Medication Based Interventions

- Surfactant
 - LISA, INSURE
- Caffeine
 - Dose, length
- Diuretics

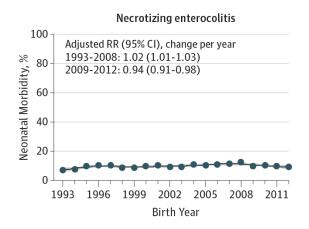
- Steroids
 - Which, when
- Azithromycin
- Vitamin A
- Inhaled agents

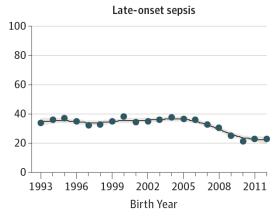
Adjunct Interventions

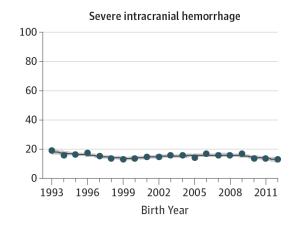
- PDA Management
- Fluid Restriction
- Feeding Method
- Nutrition

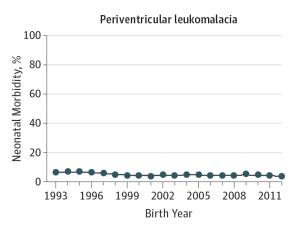


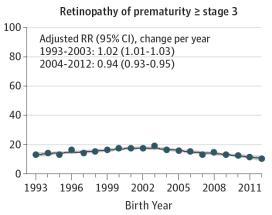
BPD Outcomes Over Time 1993 - 2012

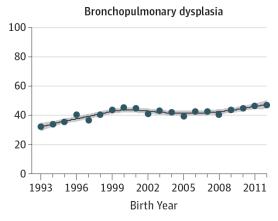






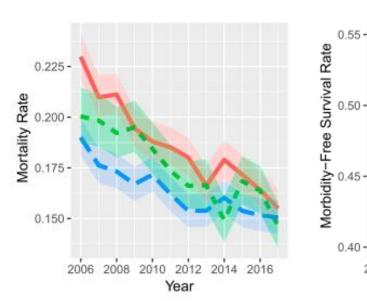


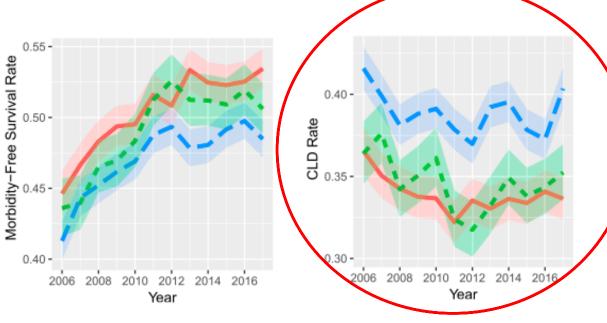






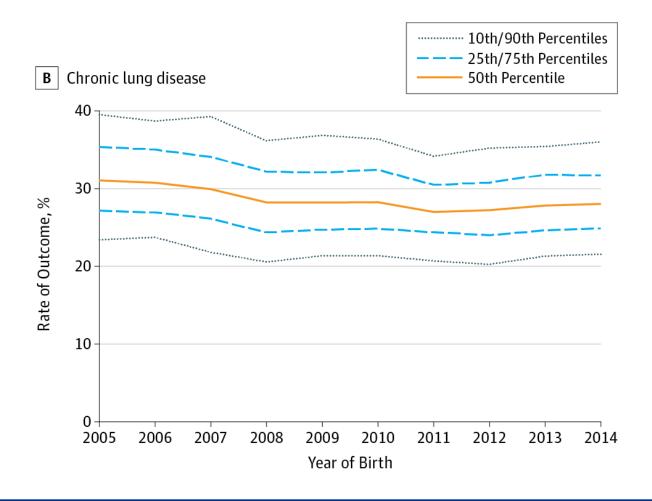
BPD Outcomes Over Time by Race and Ethnicity 2006 - 2017







Risk-Adjusted Rates of Outcomes at the 10 - 90th Percentiles, 2005 - 2014





VON Newborn Improvement Collaborative for Quality (NIC/Q & NIC/Q 2000)

- 9 centers formed focus group, used QI methods, to decrease CLD rates
- 9 PBPs identified (57 actually implemented)
- Did not significantly change CLD rate or severity
- Decreased dexamethasone use from 49% to 22% of infants 501-1250g



NIC/Q 2002 – Breathsavers Group

- 16 centers (19 hospitals)
- Goal: reduce BPD in VLBW infants by 10% of the pre NIC/Q 2002 rate (2001 vs. 2003)
- Secondary: decrease oxygen days, ventilator days and steroid use
- Centers supported in use of QI methods

TABLE 1	PBPs to Reduce BPD

PBPs	Level of Evidence ^a	References
First-tier recommendations		
Decrease sentinel events such as unplanned extubations and air leak syndromes	3	25–28
Extubate infants from assisted ventilation as soon as possible	5	5, 37, and 38
Increase use of permissive hypercapnia	2	4, 5, 16, 17, and 20
Monitor VT of mechanically ventilated patients	4	16, 17, and 37–41
Improve team work in the DR	5	42 and 43
Improve use of surfactant in the DR	1	10 and 11
Second-tier recommendations		
Use NeoPuffinstead of hand ventilation	5	42 and 43
Use vitamin A	1	12 and 13
Target Spo ₂ lower than traditional normal, adult Spo ₂ values	2	14, 15, and 29–36
Minimize use of supplemental O ₂ in the DR by titrating Fio ₂ and monitoring Spo ₂	3	29–36
Close a PDA early in the neonatal course (medical or surgical)	3	22-24
Provide consistent respiratory management	5	46 and 47
Provide blended O ₂ in the DR and during transport to the NICU	5	29-36

Vr indicates tidal volume; DR, delivery room; Spo₂, pulse oxygen saturation; Fio₂, fraction of inspired oxygen.



a Muir Gray classification system.9

NIC/Q 2002 – Breathsavers Group

Results

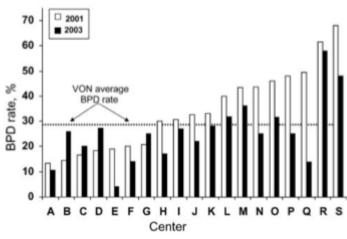


FIGURE 1

Participating hospitals are represented along the x-axis, and BPD rates are noted along the y-axis. Rates for the baseline (2001) and follow-up (2003) years are presented. The average BPD rate for the entire VON VLBW database was the same for 2001 and 2003: 29%. That average rate is represented by the dotted line.

BPD rates varied

- 2001: 13.4 - 66.7%

– 2003: 4.0 - 58.3%

 Outcome: 27% reduction in BPD

 Process measures: significant changes made to surfactant in DR, time to surfactant, use of conventional ventilation



Randomized Control Trials of Quality Improvement



Neonatal Research Network: Randomized Control Trial of QI

- Goal: improve rates of survival free of BPD for infants less than 1250g
- 3 Centers identified as best performers
- 14 Centers randomized; 7 received intervention of QI methods to implement PBPs
- PBPs: reduce oxygen exposure and mechanical ventilation; 27 specific interventions were benchmarked
- Results: BPD Rates did NOT differ between control and intervention group



Canadian Neonatal Network: Randomized Control Trial of QI

- Simultaneous Cluster RTC
 - 6 units randomized to QI to address BPD
 - 6 units to QI to address nosocomial infection
 - 5 other units used as additional comparisons
- PBPs: The individual groups decided which PBPs to implement
- Results: Significant reduction in BPD in intervention vs. control groups



Local Quality Improvement



Themes

- Quality Improvement for BPD Prevention has used bundles (multiple changes)
- Units demonstrating changes so far tend to be small-mid sized units, community or academic affiliated
- Multidisciplinary teams used
- Literature review and education always included
- Most teams visited at least one other NICU



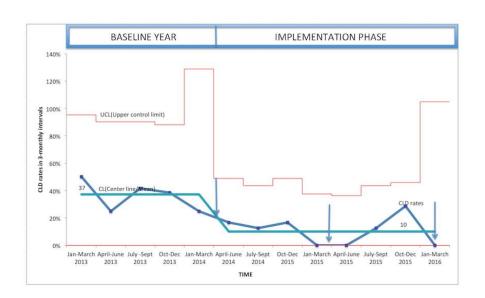
St. Elizabeth's Medical Center

- 5 PBPs to limit mechanical ventilation, supplemental oxygen, and bronchopulmonary dysplasia in newborn infants less than 33 weeks' gestation
- Non-significant reduction in BPD rate, 17% vs. 8% overall (p = .27)
- Among BW < 1500g BPD rate was 29% vs. 11% (p = .08)
- Significant difference in hypotension in first 24 hours, 33% vs. 15% (p = .03)
- No difference in pneumothorax, PDA treatment, ROP, NEC, LOS or others.



South Shore Hospital

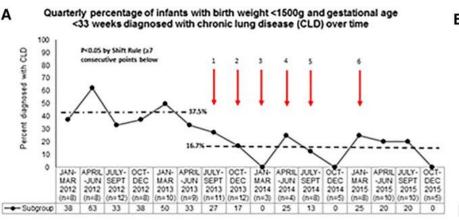
- Objective: reduce CLD by 10% among VLWB infants by implementing a consistent respiratory care bundle
- CLD rate fell 37 10%
- Criteria met for special cause variation in outcome and process measures

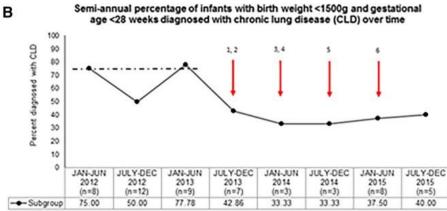




Boston Medical Center

- Aim: to reduce the incidence of CLD among VLBW infants born at younger than 33 weeks GA by 50% between the baseline period (Jan 1, 2012-June 20, 2013) and the intervention period (July 1, 2013 Dec 31, 2015).
- Reduced incidence of CLD in VLBW born < 33 weeks GA by 55.5% from 37.5% to 16.7%







Approaches to Collaborative QI: What Approach Do We Take?

Munish Gupta



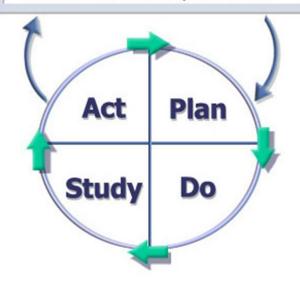
How do we do QI?

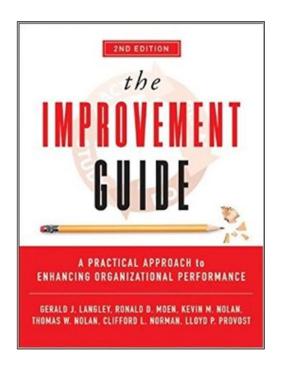
Model for Improvement

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?



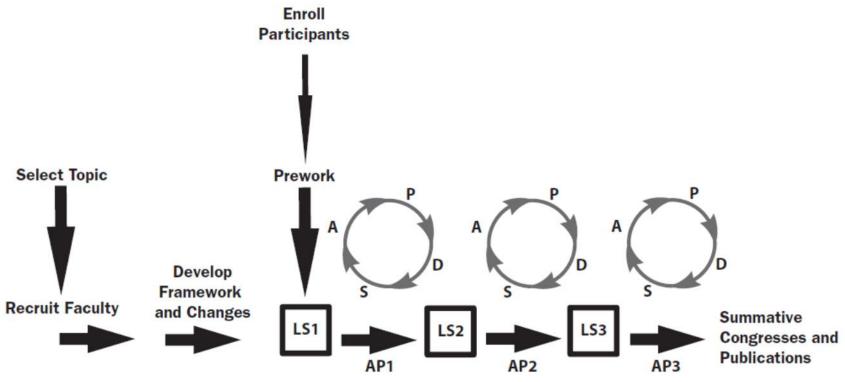






Collaborative QI

Figure 2. Breakthrough Series Model



LS1: Learning Session AP: Action Period P-D-S-A: Plan-Do-Study-Act

Supports:

Email • Visits • Phone Conferences • Monthly Team Reports • Assessments



Collaborative QI: One Approach

- 1. Hospital engagement
- 2. Common overall aims
- 3. Common measures
- 4. Local specific aims and changes
- 5. Use data to drive improvement!
- Collaborate and share openly.
- Use multidisciplinary teams.

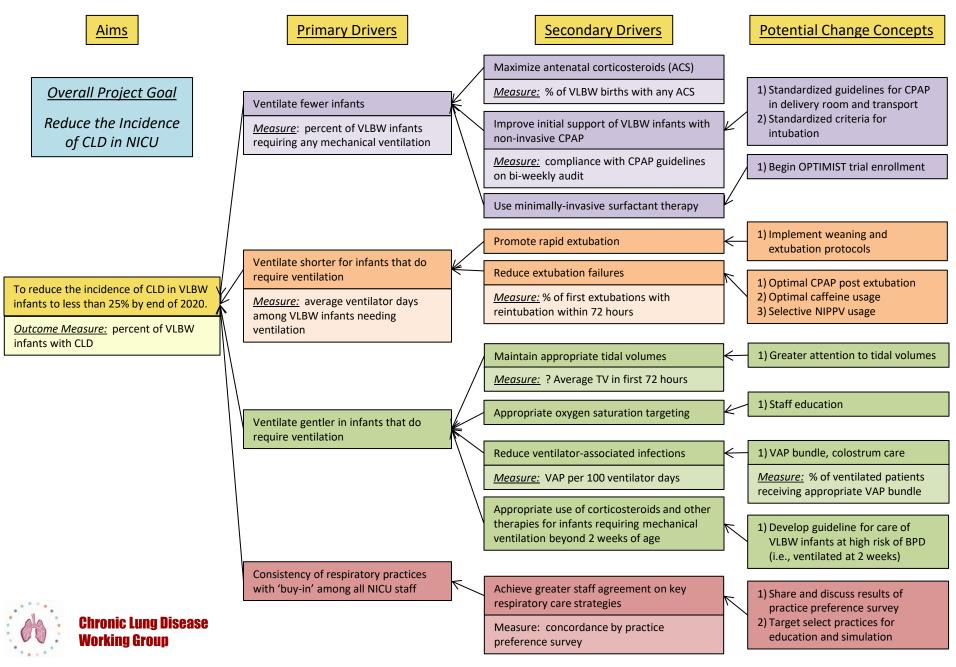


Proposal

- Each team commits to using model for improvement to do local QI project
- We use common framework for aims, measures, and PDSA cycles, with agreed upon timeline for each step
- We use collaborative to share local steps
- We use VON data to monitor progress
- We can consider other measures in future



CLDWG Key Driver Diagram 2019



Identifying a Specific Aim for Local QI

Aim Stateme	nt Worksheet
	he answer to the first question in the Model for Improvement, "What are we trying to accomplish?" into delineate clear, specific plans for the work ahead.
	w to write an effective aim statement. Then use the checklist to double-check your work.
, , , , , , , , , , , , , , , , , , , ,	
What? What's the pro	blem or opportunity? Make sure it relates to a fundamental customer need.
E.g. Increase the percent	of children who receive a Health Needs Assessment
Harman A. D. Annua	much will you improve? Or "how good" do you want to get?
	should receive a Health Needs Assessment will receive one
By when? What is the	e date by which you will achieve the level of improvement you've set out to accomplish?
E.g. January 31, 2020	to and by minute poor minute and action or engineering poor to act out as accompanies.
For whom? Who is th	ne customer or population who will benefit from the improvement?
E or Children condex the	age of 12 who have an initial referral to Child Protective Services
e.g. Criticali dilati cia	grot is the late at their terms to cite Protective anythin
Where? What are the	boundaries of the process or system you're trying to improve? Where does it begin and end?
E.g. In Middlesex County	
E.g. In Middlesex County Complete aim staten E.g. By January 31, 2020,	nent: of children under the age of 12 for whom a Mealth Needs Assessment is recommended, 95% will receive the
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Team Time! Identifying a Specific Aim for Local QI Efforts and Report Out



Next Steps

MOC 4 Eligibility Coming Soon

Survey of Interdisciplinary Groups in Healthcare Tool (SIGHT) Project

Website



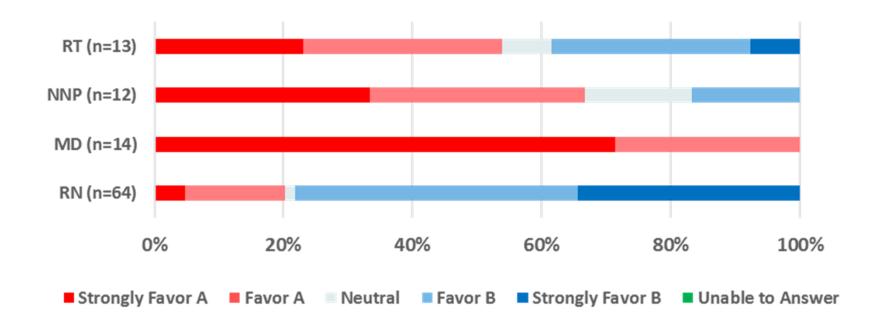
SIGHT!

- Vignette-based survey to measure practice preferences among NICU staff
- Can measure variability WITHIN a NICU and BETWEEN NICUs
- Can be used as measure in QI project
- Can identify priorities for improvement
- Current survey: 14 vignettes



A 1 day old 23 3/7 weeks infant, birth weight of 500 gm, following a full course of antenatal steroids and two doses of surfactant, is now on settings of 16/5 x 18, with FiO2 of 21% without significant apnea. Do you favor:

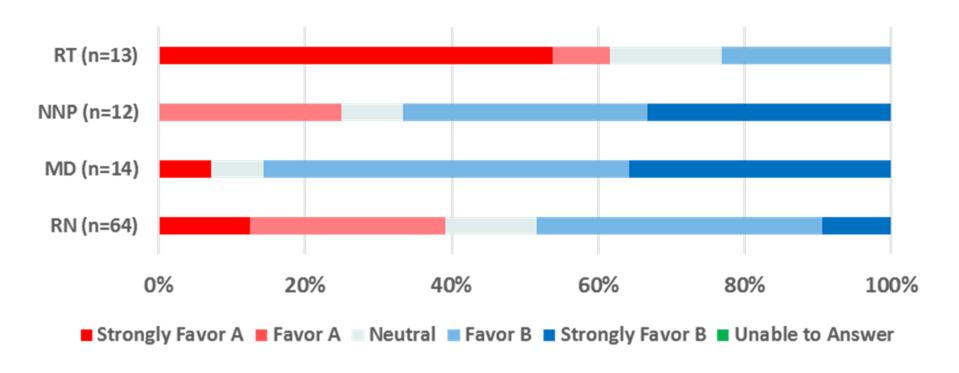
- A. Extubation to positive pressure (CPAP)
- B. Continuing intubation on low settings



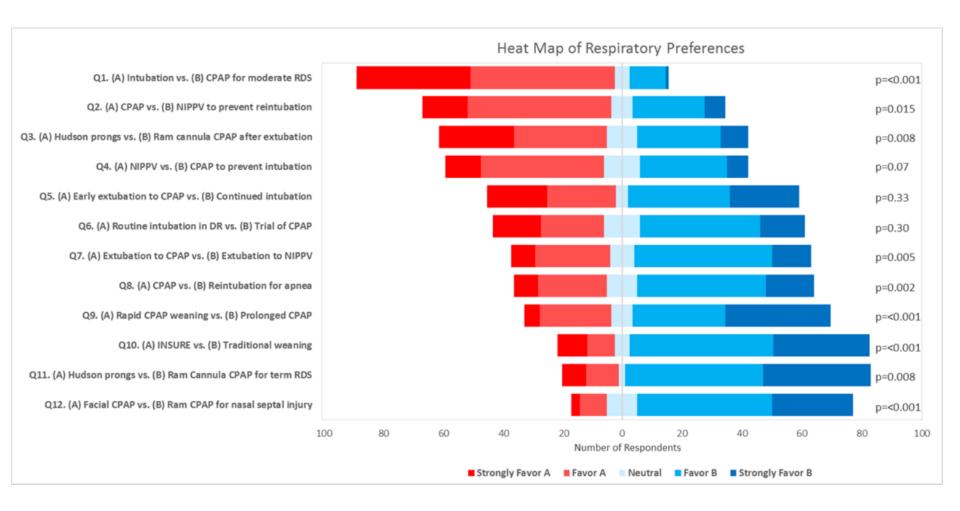


An infant is born at 24 3/7 weeks gestation with birth weight 550 gm following a full course of antenatal steroids. In the delivery room, the infant is active and has appropriate saturations with face mask CPAP and 30% FiO2. Do you favor:

- A. Intubation in the delivery room
- B. Continuing CPAP in the delivery room









Abbreviated clinical vignettes	RT vs. RN	RT vs. NNP	RT vs. MD	RN vs. NNP	RN vs. MD	NNP vs. MD
Q1. Intubation vs. CPAP for moderate RDS	0.219	0.210	0.059	0.816	0.148	0.313
Q2. CPAP vs. NIPPV to prevent reintubation	0.632	0.543	0.270	0.693	0.031	0.123
Q3. Hudson prongs vs. Ram cannula CPAP after extubation	0.567	0.070	0.021	0.007	0.000	0.774
Q4. NIPPV vs. CPAP to prevent intubation	0.010	0.797	0.908	0.001	0.001	0.580
Q5. Early extubation to CPAP vs. Continued intubation	0.004	0.338	0.003	0.000	0.000	0.023
Q6. Routine intubation in DR vs. Trial of CPAP	0.013	0.004	0.001	0.074	0.005	0.529
Q7. Extubation to CPAP vs. Extubation to NIPPV	0.003	0.098	0.403	0.461	0.001	0.028
Q8. CPAP vs. Reintubation for apnea	0.154	0.931	0.034	0.147	0.000	0.042
Q9. Rapid CPAP weaning vs. Prolonged CPAP	0.021	0.788	0.362	0.090	0.351	0.540
Q10. INSURE vs. Traditional weaning	0.122	0.410	0.107	0.013	0.002	0.499
Q11. Hudson prongs vs. Ram Cannula CPAP for term RDS	0.543	0.144	0.028	0.167	0.013	0.466
Q12. Facial CPAP vs. Ram CPAP for nasal septal injury	0.096	0.013	0.006	0.079	0.058	0.848



Look for Doodle to Schedule Spring Meeting Soon!

