



BCI Webinar

Improving Reporting Accuracy: *Assisted Ventilation*

January 24th, 2019

Partnering to Improve Health Care Quality
for Mothers and Babies



Overview

- 👶 Hospital Recognition
- 👶 What is the data showing?
- 👶 Recommended Guidance on Reporting
- 👶 Group Sharing Session
- 👶 Questions
- 👶 Upcoming Webinar
- 👶 Adjourn

Most Improved Overall

October to November



St. Joseph's Hospital South
UF Health Jacksonville

Most Improved Overall

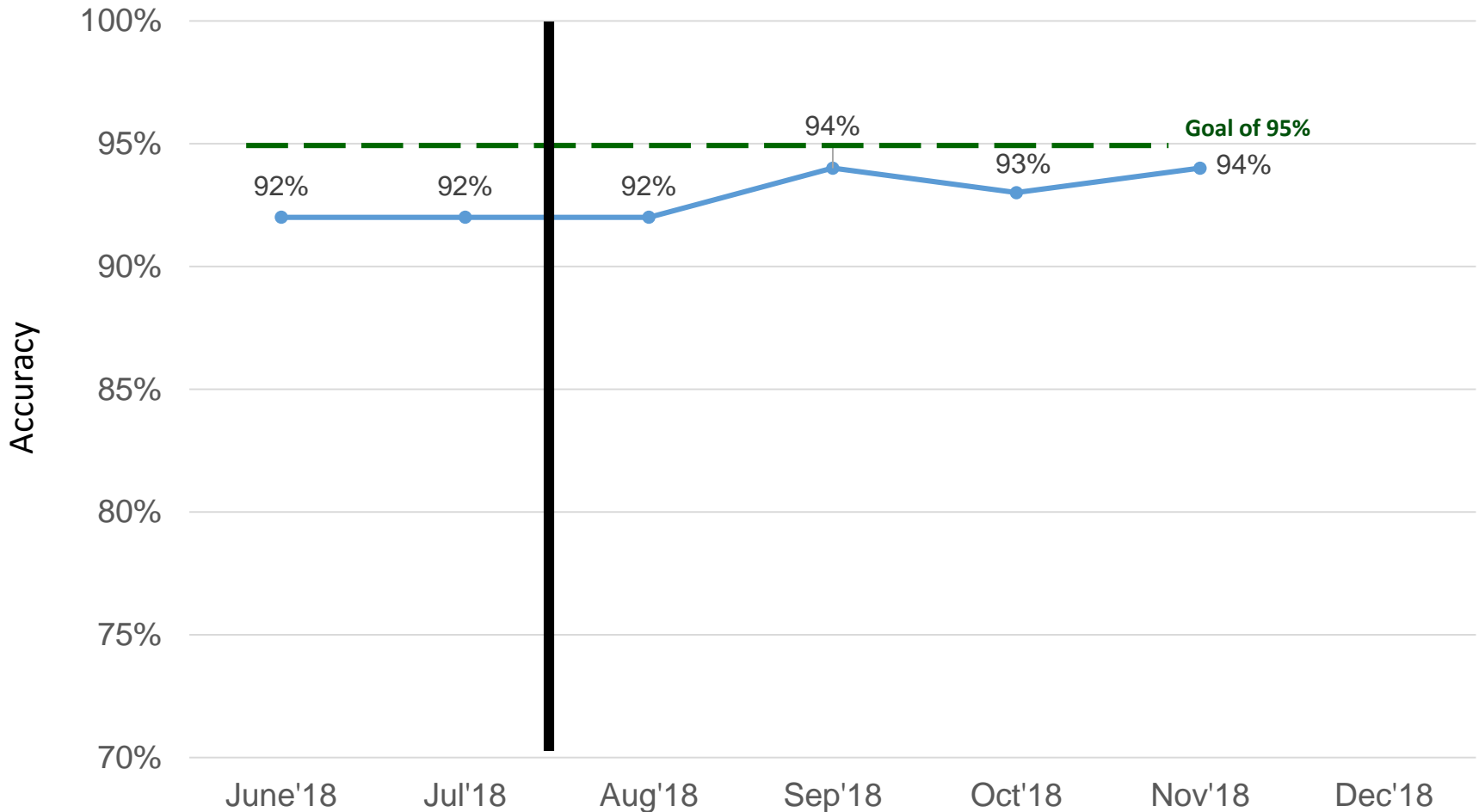
Baseline to November



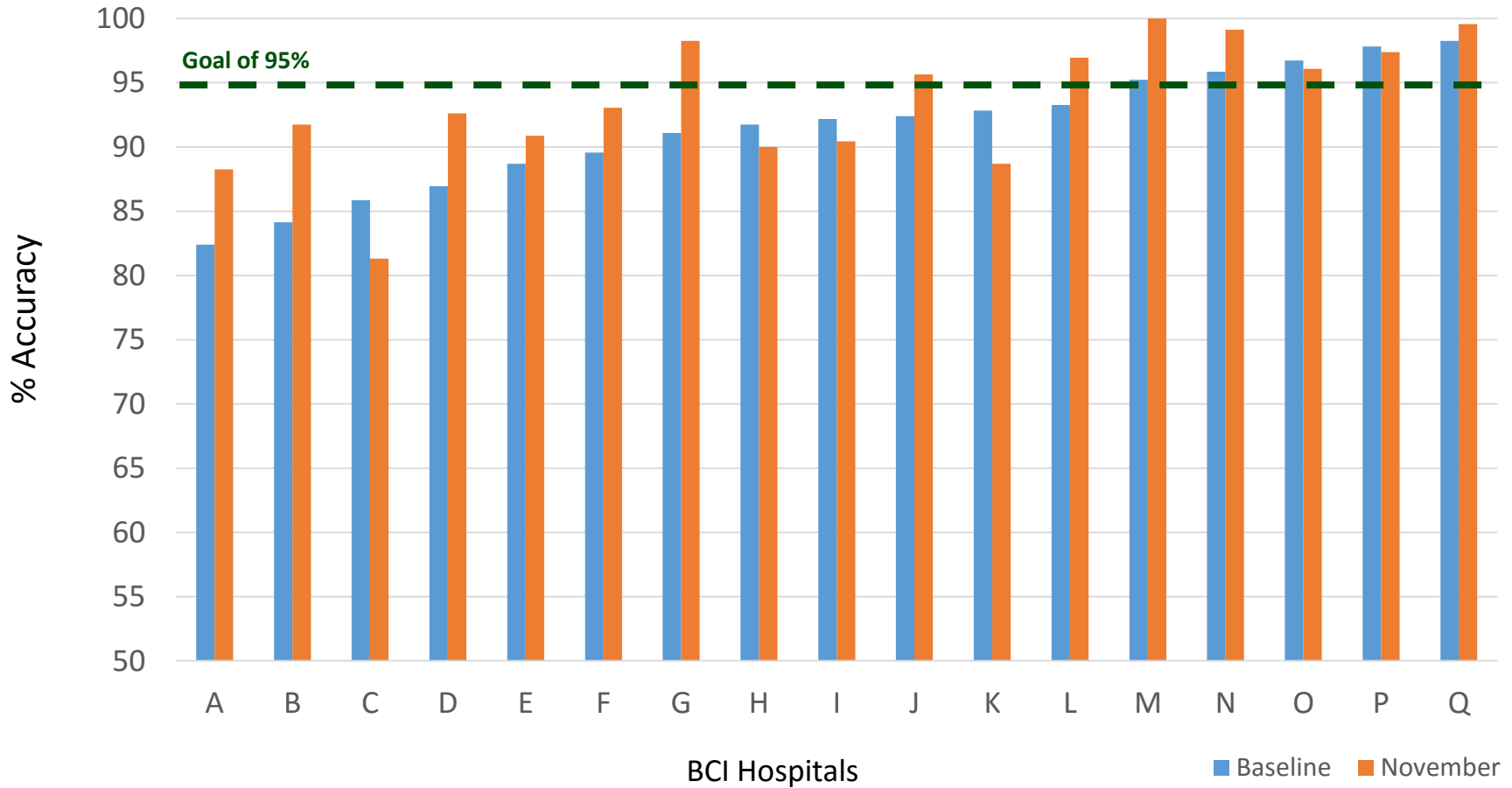
Tampa General Hospital
Bayfront Health

What is the Data Showing?

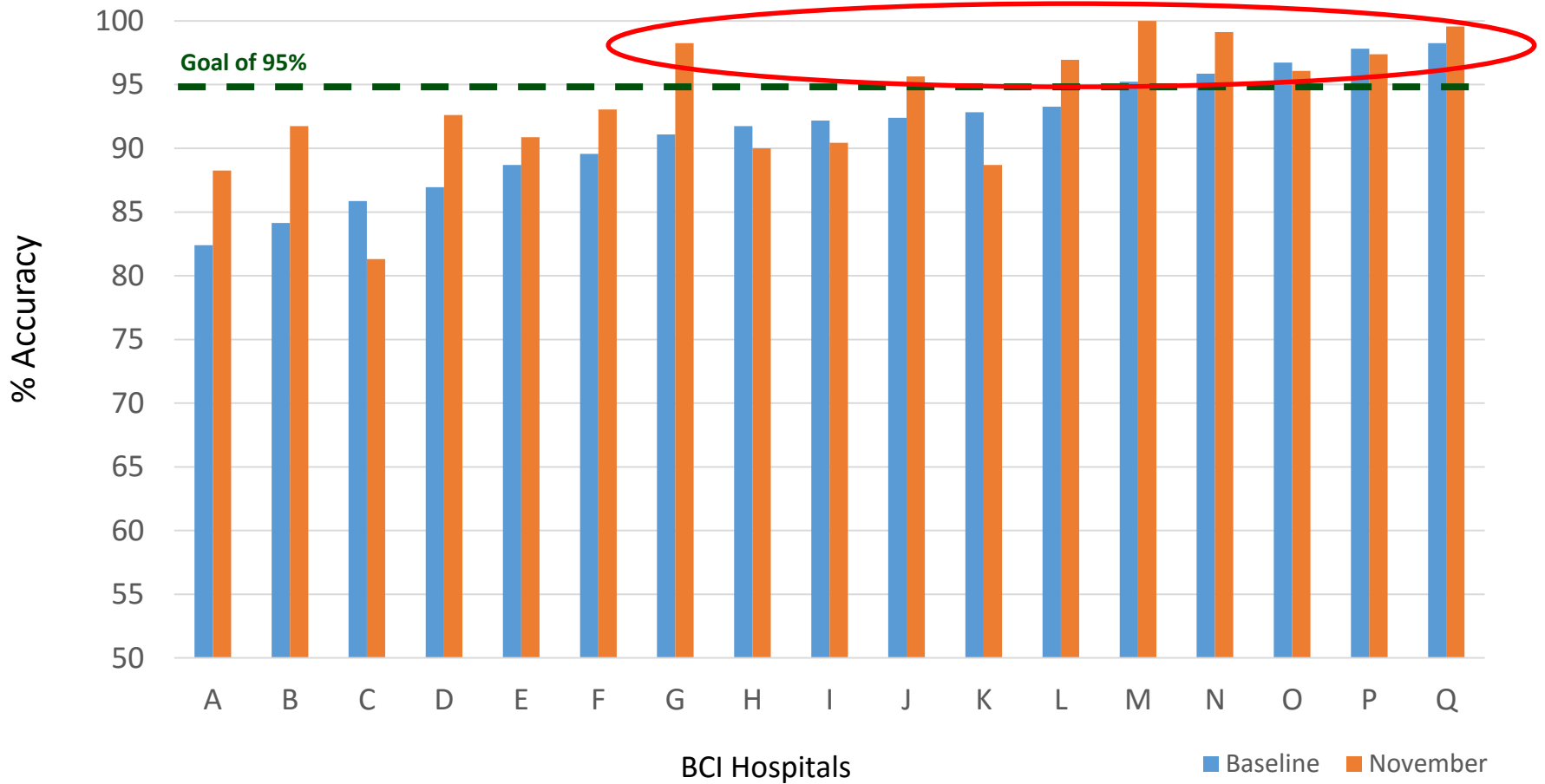
Average Percent Accuracy of All 23 Birth Certificate Variables – BCI Initiative-Wide



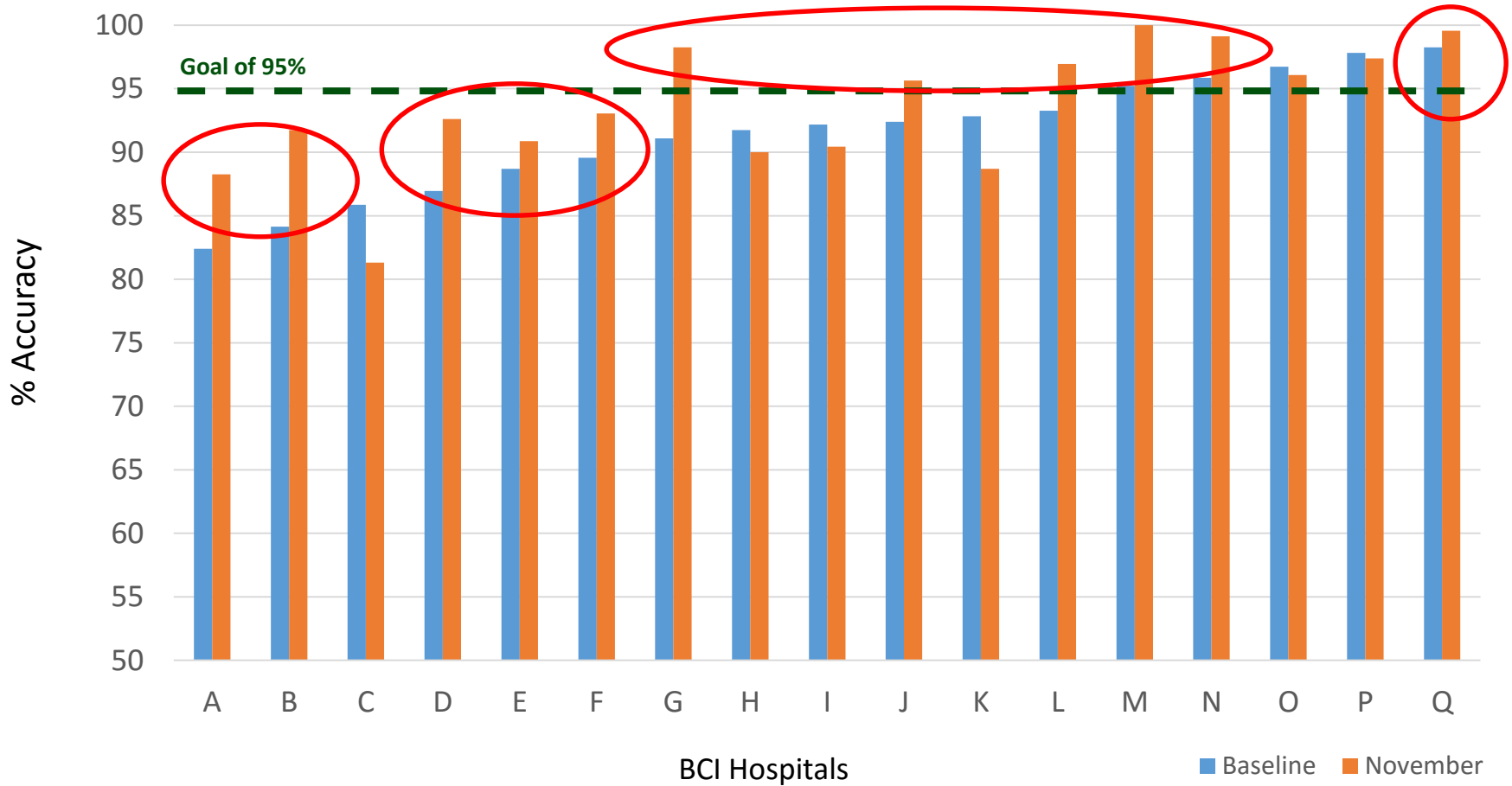
Average Percent Accuracy of All 17 BCI Hospitals from Baseline



Average Percent Accuracy of All 17 BCI Hospitals from Baseline

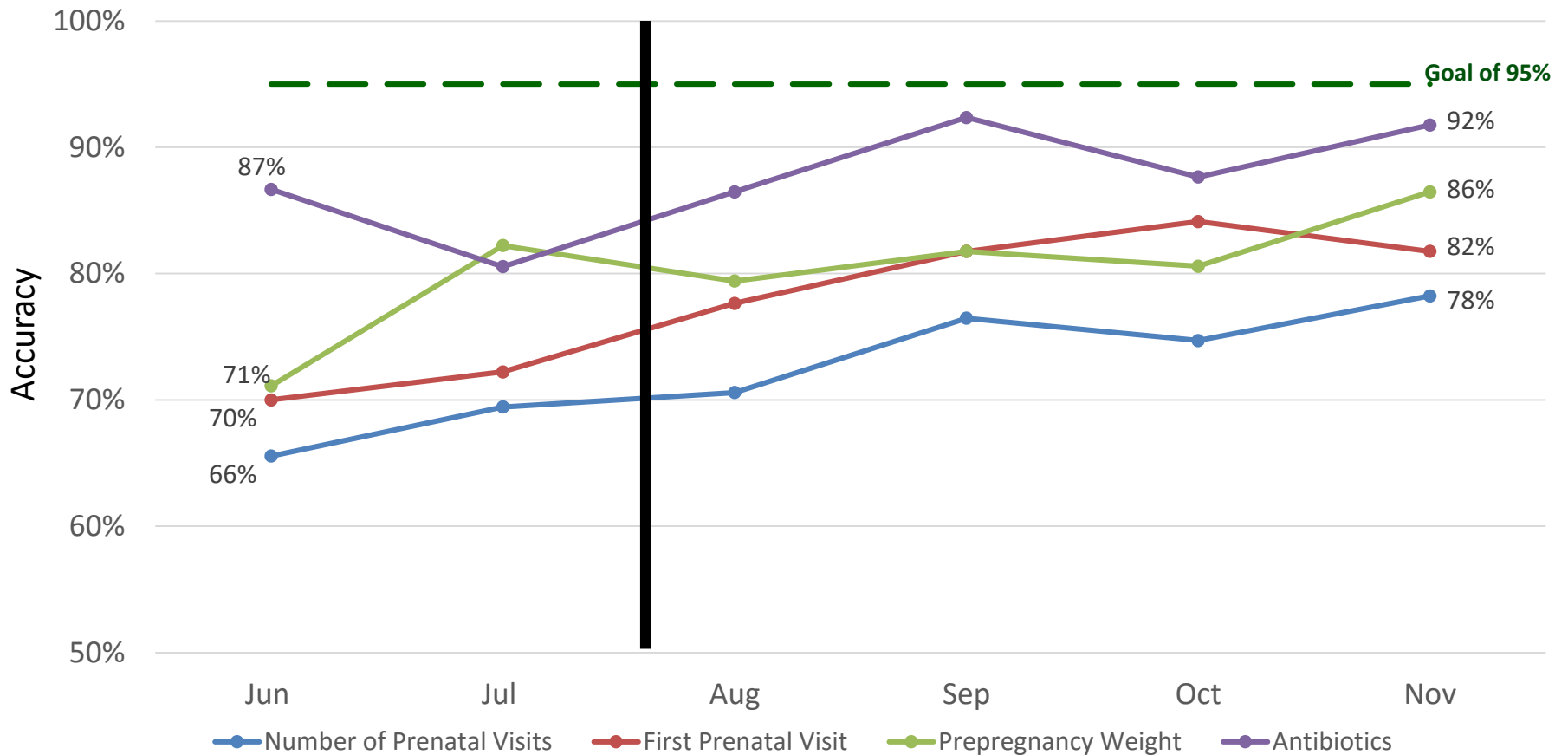


Average Percent Accuracy of All 17 BCI Hospitals from Baseline



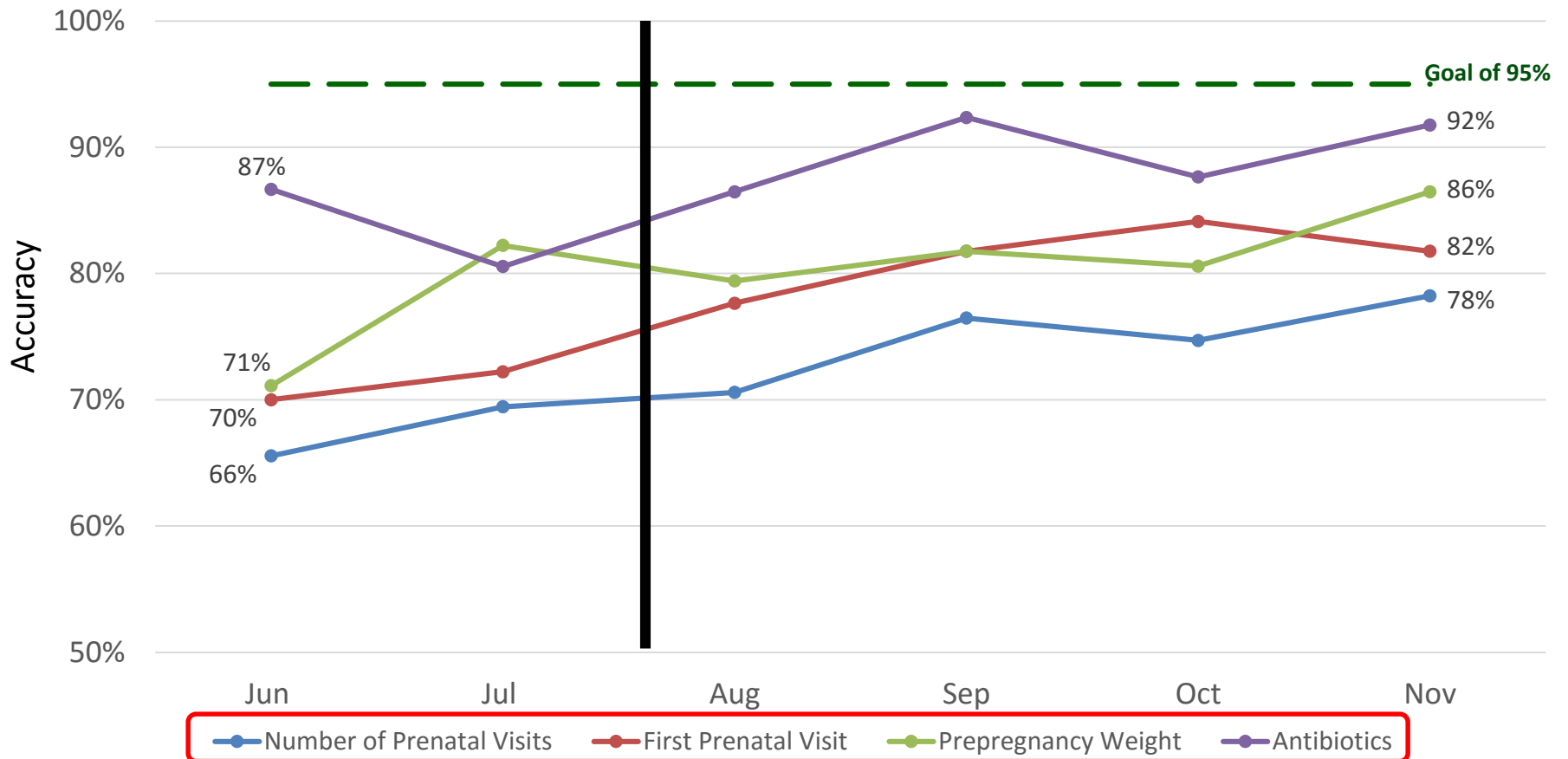
Average Percent Accuracy for BCI Hospitals

Measures with the largest improvement

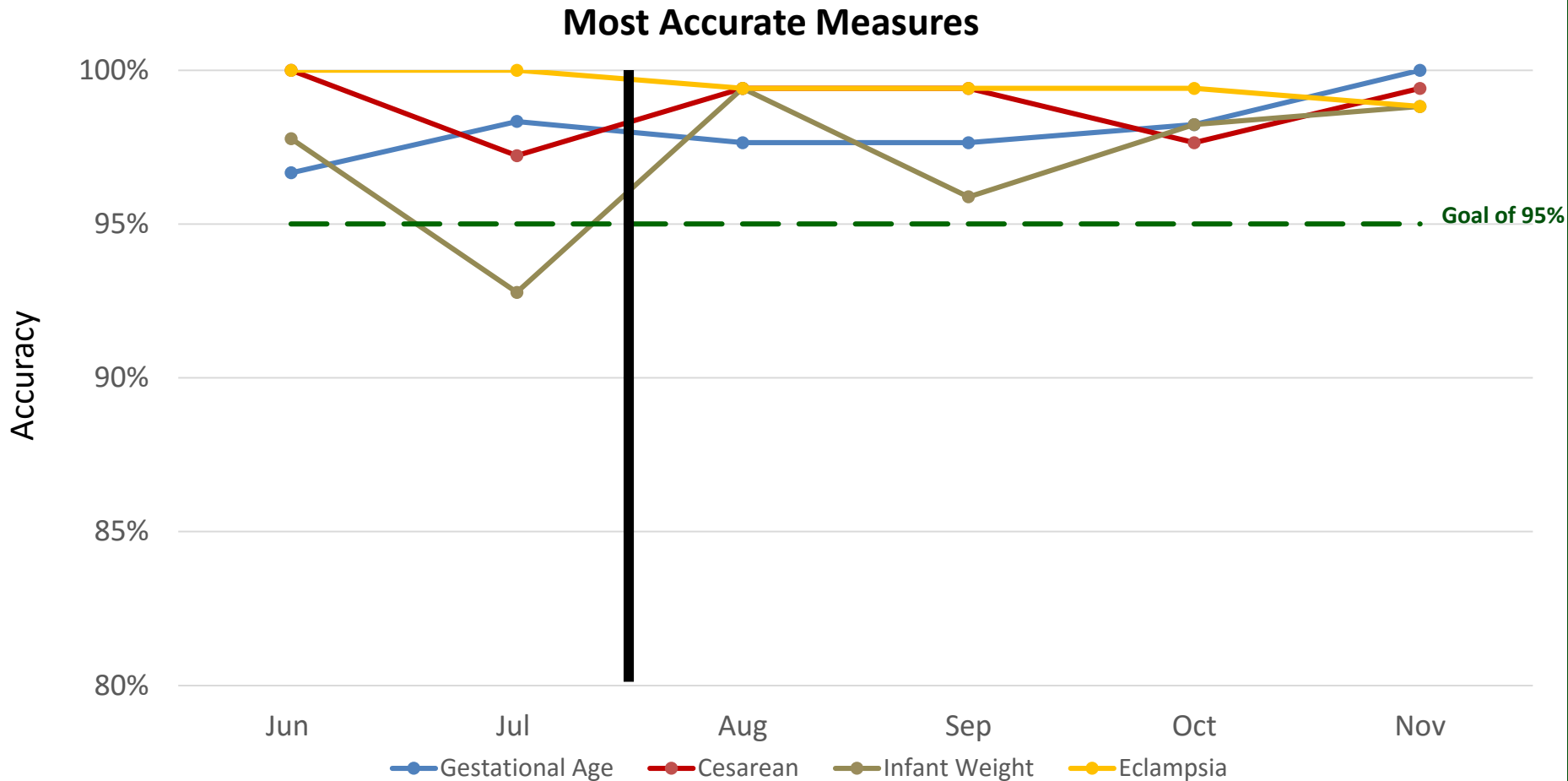


Average Percent Accuracy for BCI Hospitals

Measures with the largest improvement



Average Percent Accuracy for BCI Hospitals

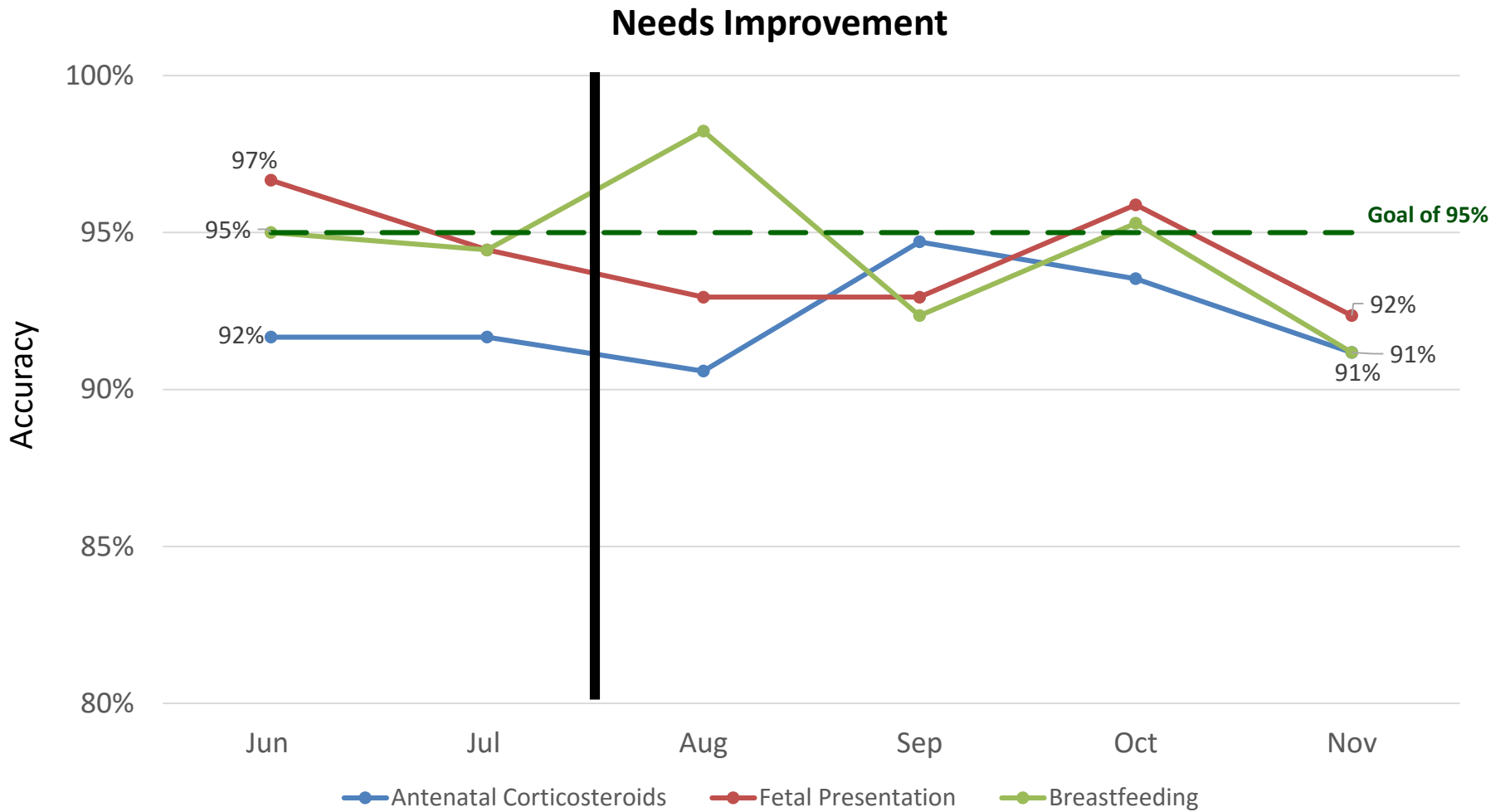


The word "Congratulations" is written in a gold, cursive font. It is surrounded by various colorful decorative elements: a blue arc and square, a red triangle, a cyan spiral, a yellow diamond, a purple spiral, and a black dash.

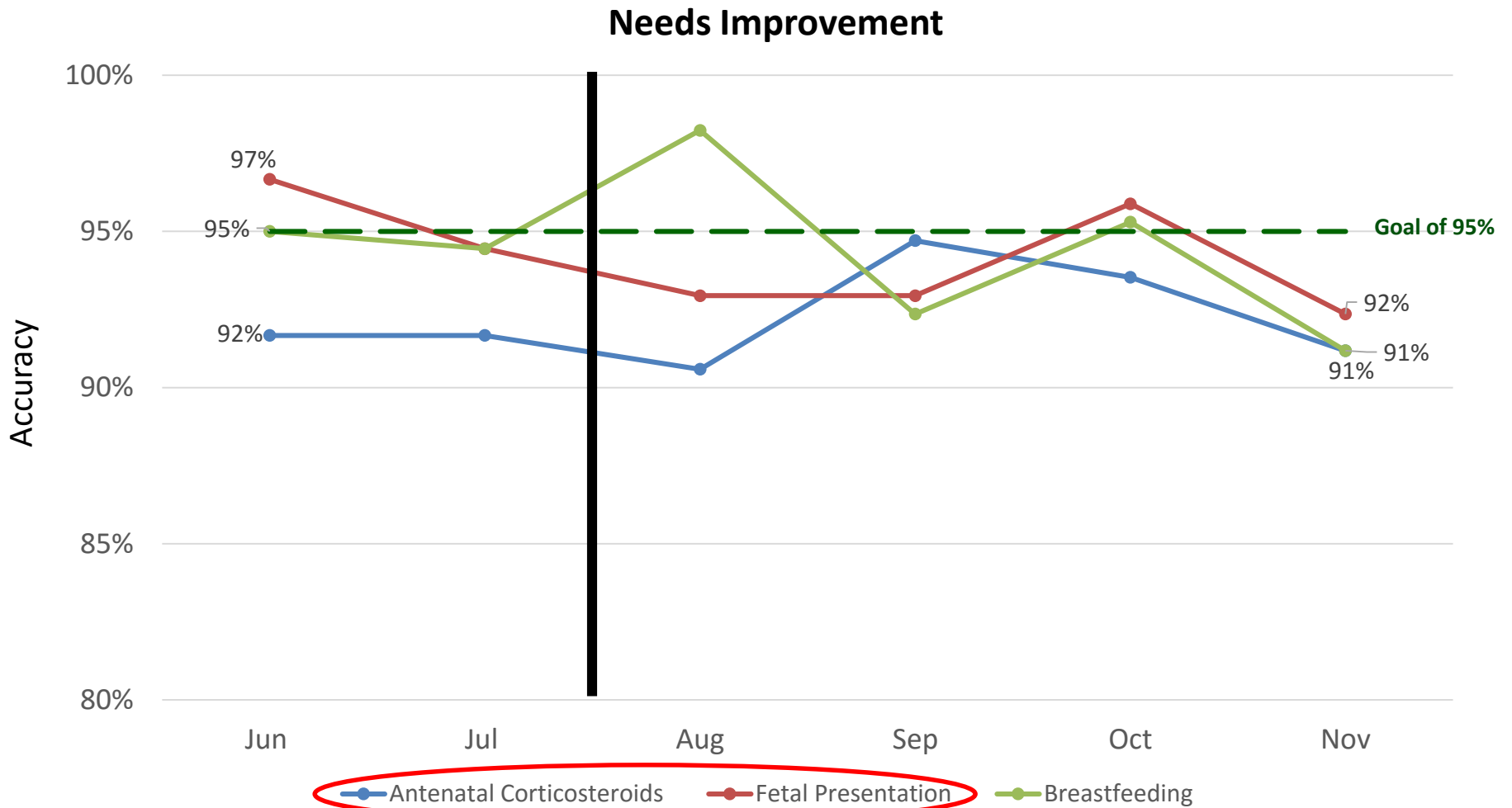
Congratulations

Opportunities for Improvement

Average Percent Accuracy for BCI Hospitals

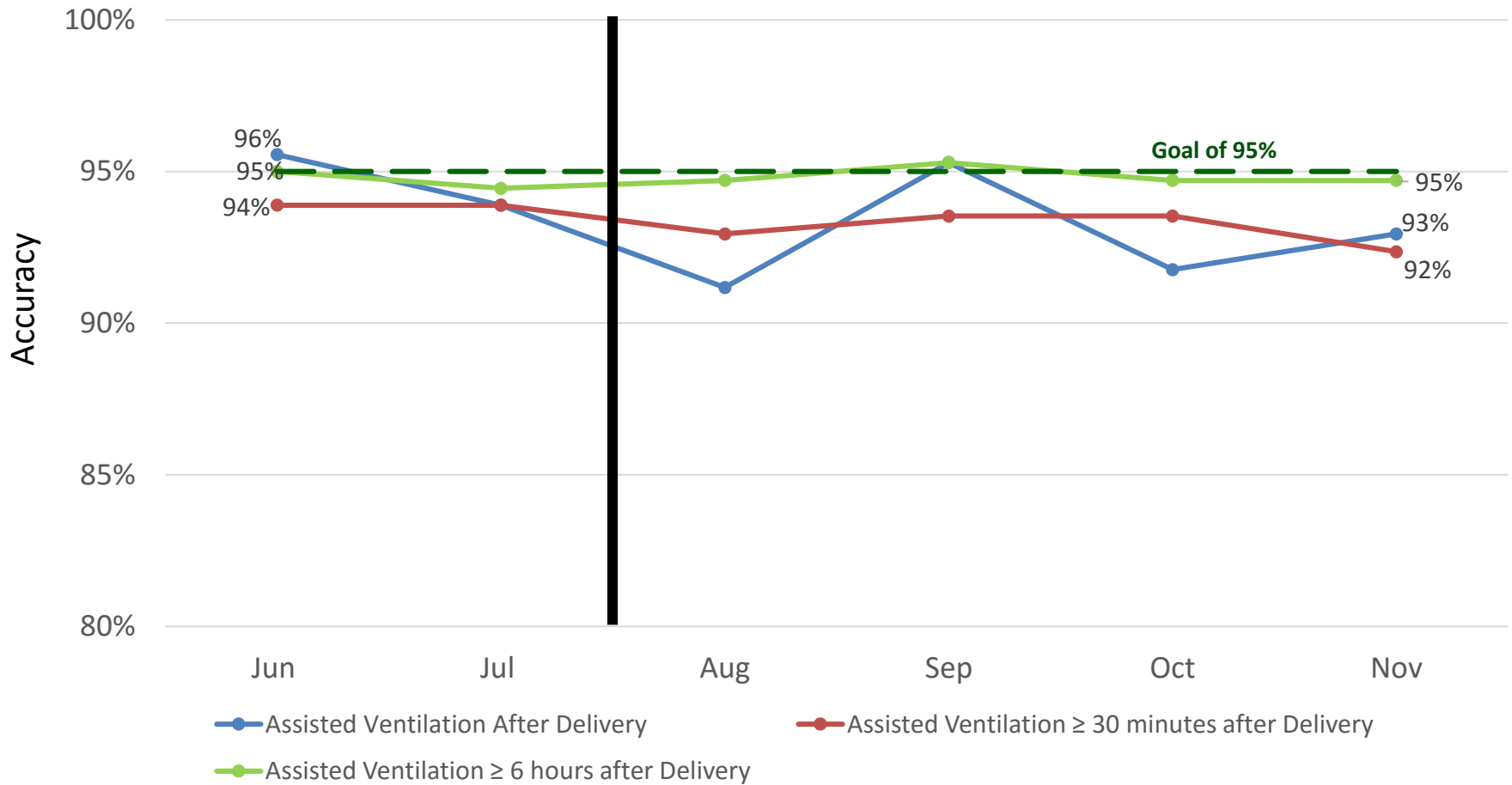


Average Percent Accuracy for BCI Hospitals

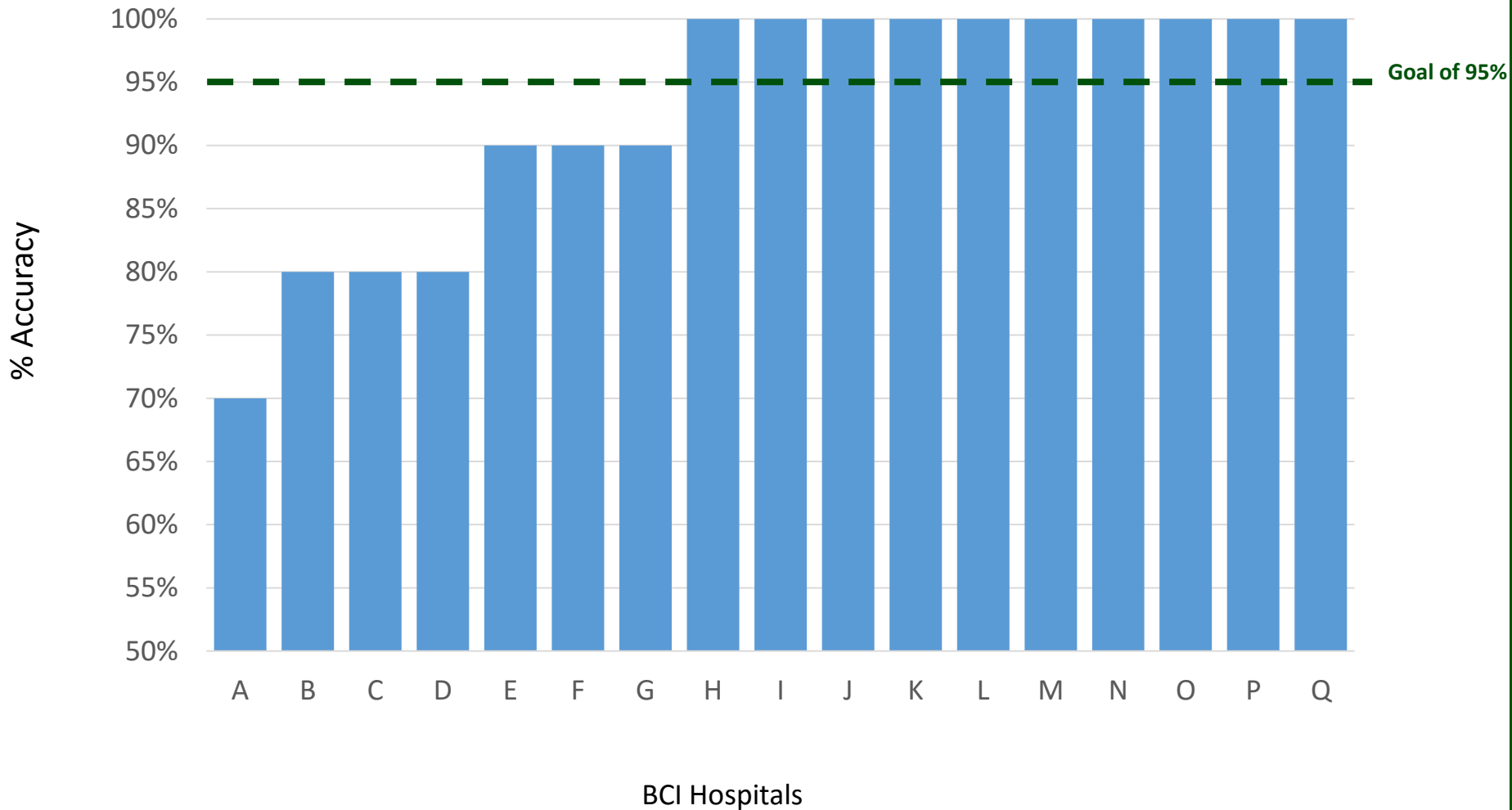


Ventilation Variables

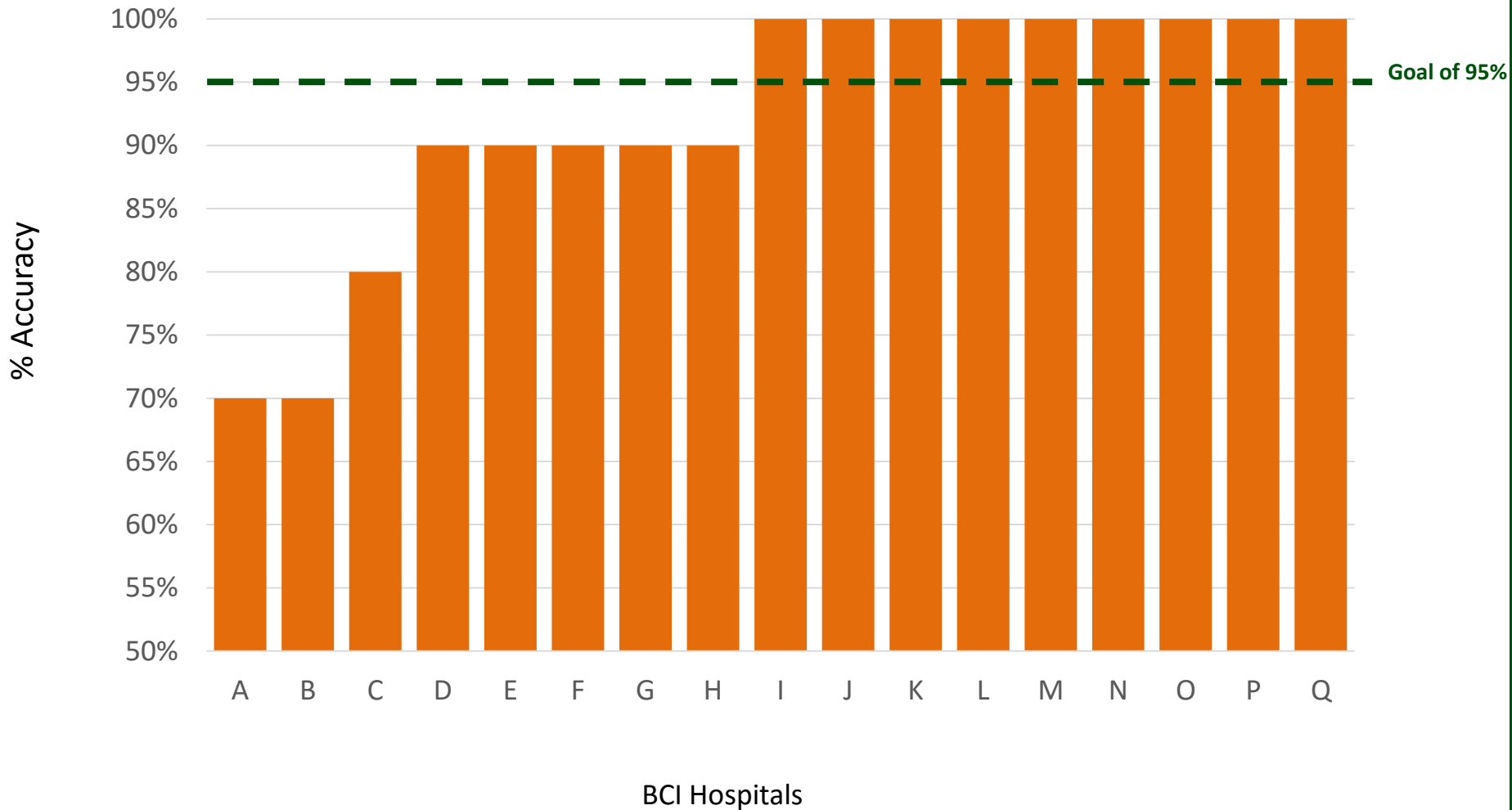
Average Percent Accuracy of Infant Condition Variables –for BCI Hospitals



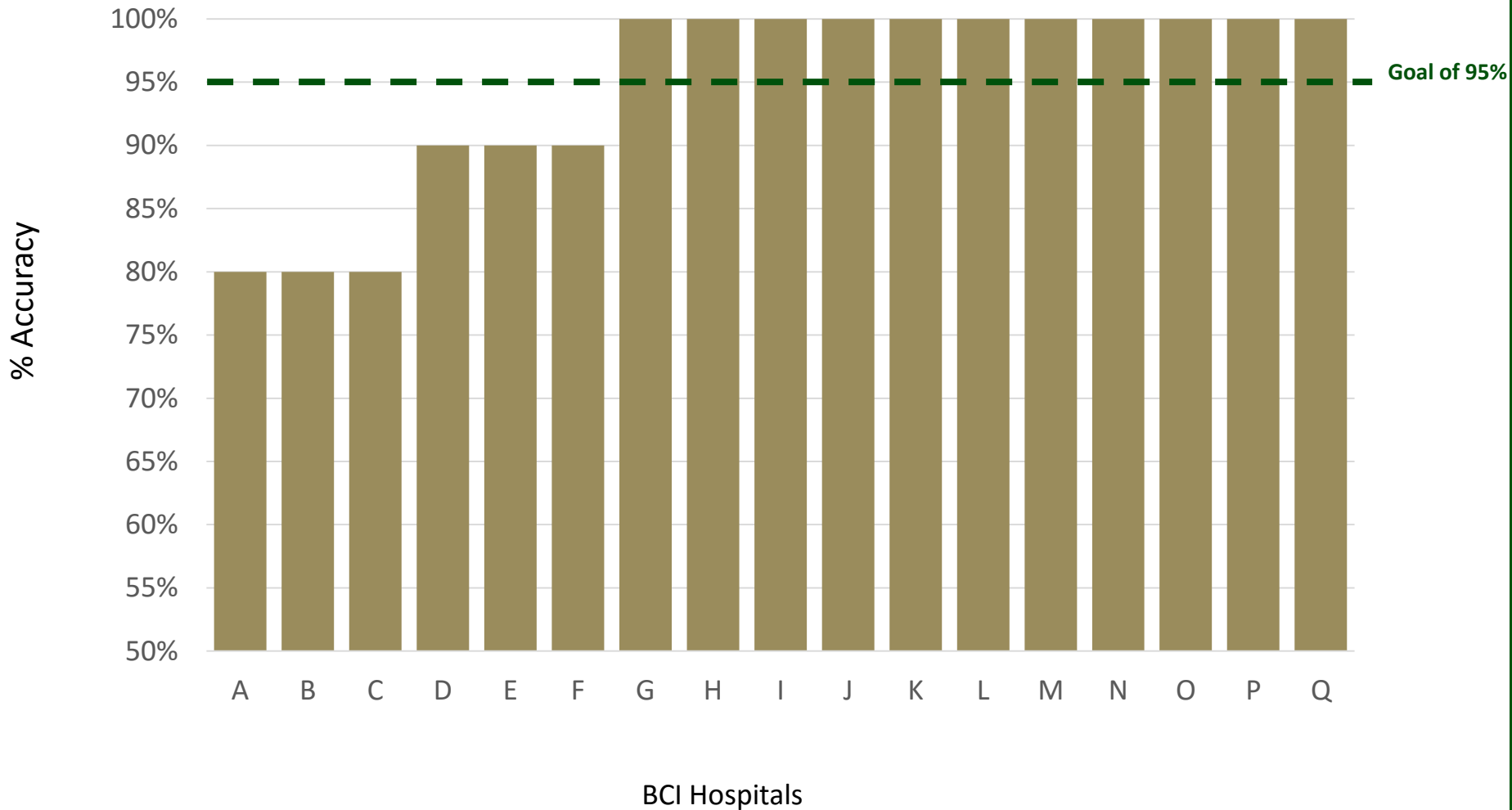
Accuracy of Assisted Ventilation Required: Immediately Following Delivery



Accuracy of Assisted Ventilation Required: 30 minutes or more



Accuracy of Assisted Ventilation Required: 6 hours or more



Agreement vs Accuracy



Sporadic

When clerk and/or auditor recorded from different sources over time

Reliability

When clerk asks the mother and the auditor copied the written answer

Accuracy

When clerk and auditor both captured the answer from correct source

Recommended Guidance on Reporting

Assisted Ventilation Required: Immediately Following Delivery

DEFINITION: Ventilation given to the infant through manual breaths for any duration with bag and mask or bag and endotracheal tube within the first several minutes from birth

KEYWORDS:

- PPV (positive pressure ventilation)
- IPPV Bag (intermittent positive pressure ventilation)
- Neopuff O₂ via ET (oxygen via endotracheal intubation)

SOURCES: Labor and delivery summary

- **DOES NOT** include blow by or free flow oxygen, laryngoscopy for aspiration of meconium or nasal cannula

Assisted Ventilation Required

30 minutes or more

Infant given mechanical ventilation by any method for **thirty minutes or more**

Six hours or more

Infant given mechanical ventilation by any method for **six hours or more**

1st Newborn respiratory care flow sheet

- **Includes** conventional, high frequency, or continuous positive pressure (CPAP)
- **Excludes** hand ventilation, free-flow oxygen only, laryngoscopy for aspiration of meconium, and nasal cannula
- **Check all that apply.** All three options are currently allowed

Examples

Scenario 1

- 👶 Infant required bag and mask for 5 minutes after birth, then was able to breathe on their own, requiring no further ventilation.

**Assisted Ventilation Required:
Immediately Following Delivery**

Scenario 2

- 👶 Infant first required bag and mask ventilation immediately after birth, then subsequently required CPAP for 3 hours in total.

**Assisted Ventilation Required:
Immediately Following Delivery and
30 minutes or more**

Scenario 3

- 👶 Infant first required bag and mask ventilation immediately after birth, then subsequently admitted to the NICU requiring IPP ventilation for 5 days.

**Assisted Ventilation Required:
Immediately Following Delivery,
30 minutes or more and
6 hours or more**

Scenario 4

- 👶 Two hours after birth, infant has an apnea spell requiring short term bag and mask ventilation for resuscitation.

Assisted Ventilation Required:

None

**Comments?
Questions?**

Group Sharing Session



Teresa Redus – Tampa General Hospital



Birth Certificate Data: Assisted Ventilation

👶 Abnormal conditions of the newborn:

Assisted Ventilation after Delivery

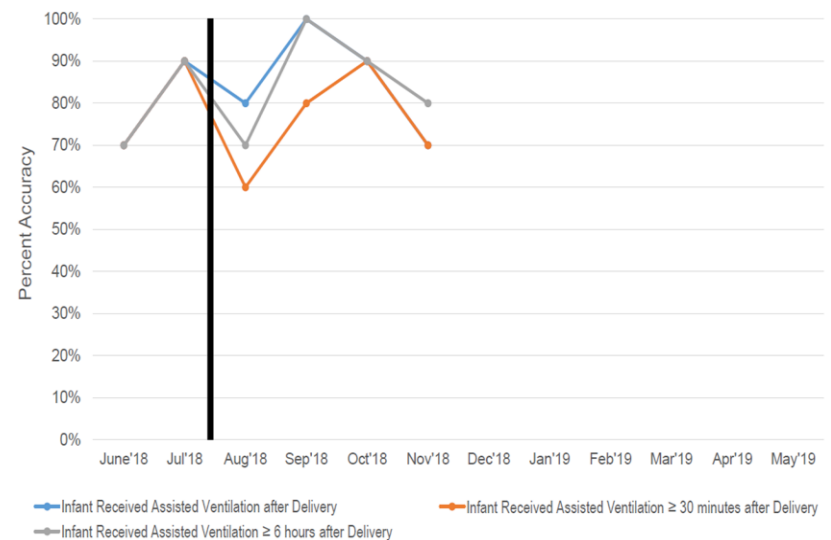
- Manual breaths/mechanical ventilation for any duration
- DOES NOT include blow by, free flow oxygen, aspiration, or nasal cannula

👶 Key words to look for: PPV, bag/mask ventilation, intubation and PPV, IPPV, PPV bag/mask or ET, Neopuff or CPAP

Our Challenges

- Drill down shows that data for **< 34 weeks** is a major contributor to low compliance with this measure
- Challenges:
 - Must go to NICU VS flowsheet and look for any type of assisted ventilation
 - Not all infants admitted to NICU receive assisted ventilation in delivery, but may receive assisted ventilation during their NICU stay
 - BC registrars are not clinical → difficult to abstract “assisted ventilation” data

Figure 11. Percent Accuracy of Infant Condition Variables



Potential Solutions

- 👤 Shared data with BC registrars
- 👤 Reviewed NICU VS flowsheet where assisted ventilation data lives
- 👤 Reviewed key words
- 👤 **New process: Look at Summary + ADT events + must determine if infant admitted to NICU, then review NICU VS flowsheet for assisted ventilation**
- 👤 Offered one-on-one assistance if needed

Lara Glamuzina – Jupiter Medical Hospital



Group Sharing Session



Upcoming Webinar

Upcoming Webinar

March 28th, 2019

Improving Reporting Accuracy:

‘Antenatal Corticosteroids’ and ‘Fetal Presentation’

- What issues have you been finding with these variables?
- We may identify hospitals who are doing well on this variable

Thank you!

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