



## BCI Webinar

# Improving Reporting Accuracy: *Assisted Ventilation*

January 24<sup>th</sup>, 2019

Partnering to Improve Health Care Quality  
for Mothers and Babies

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# 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

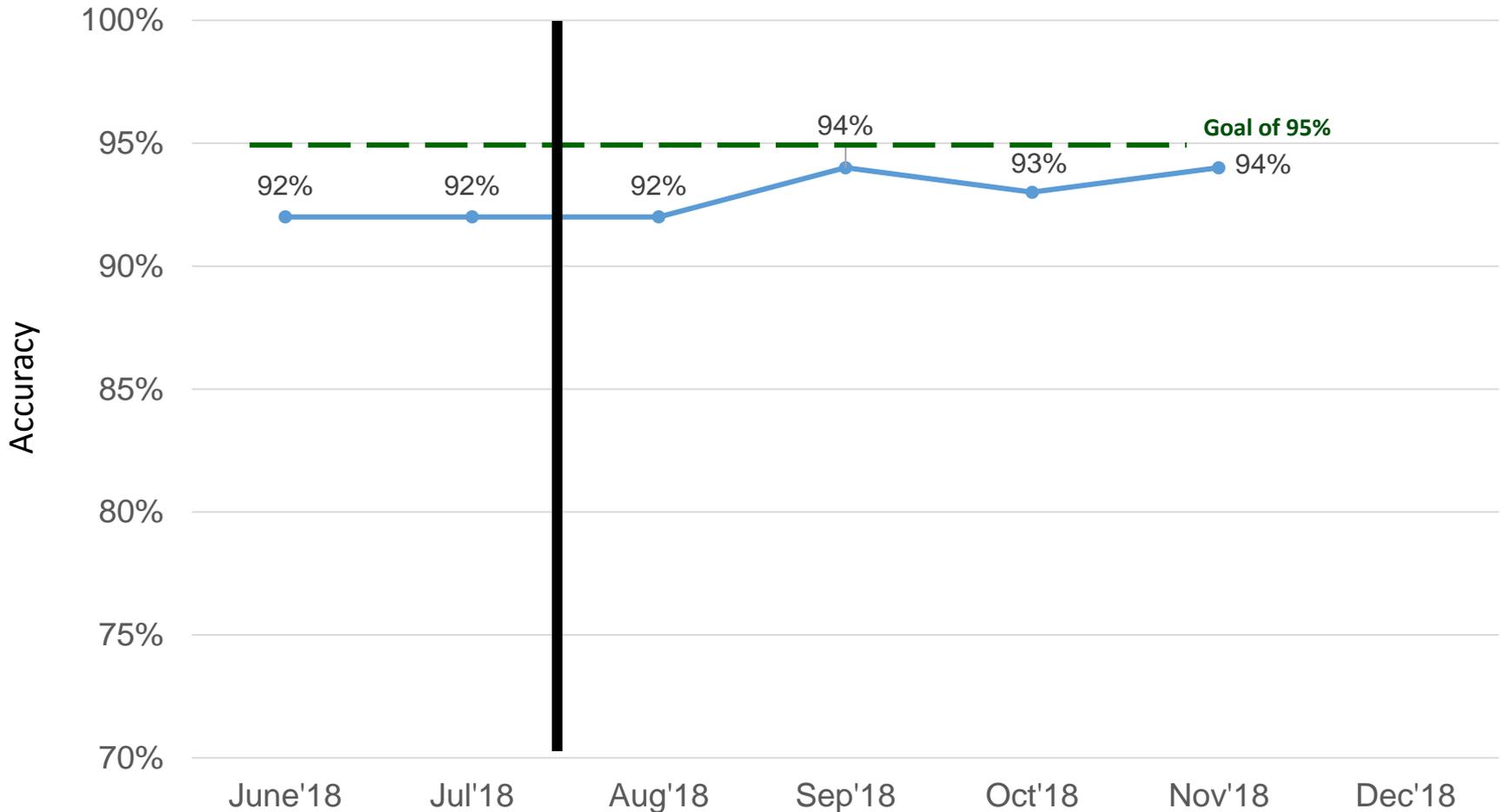
Baseline to November



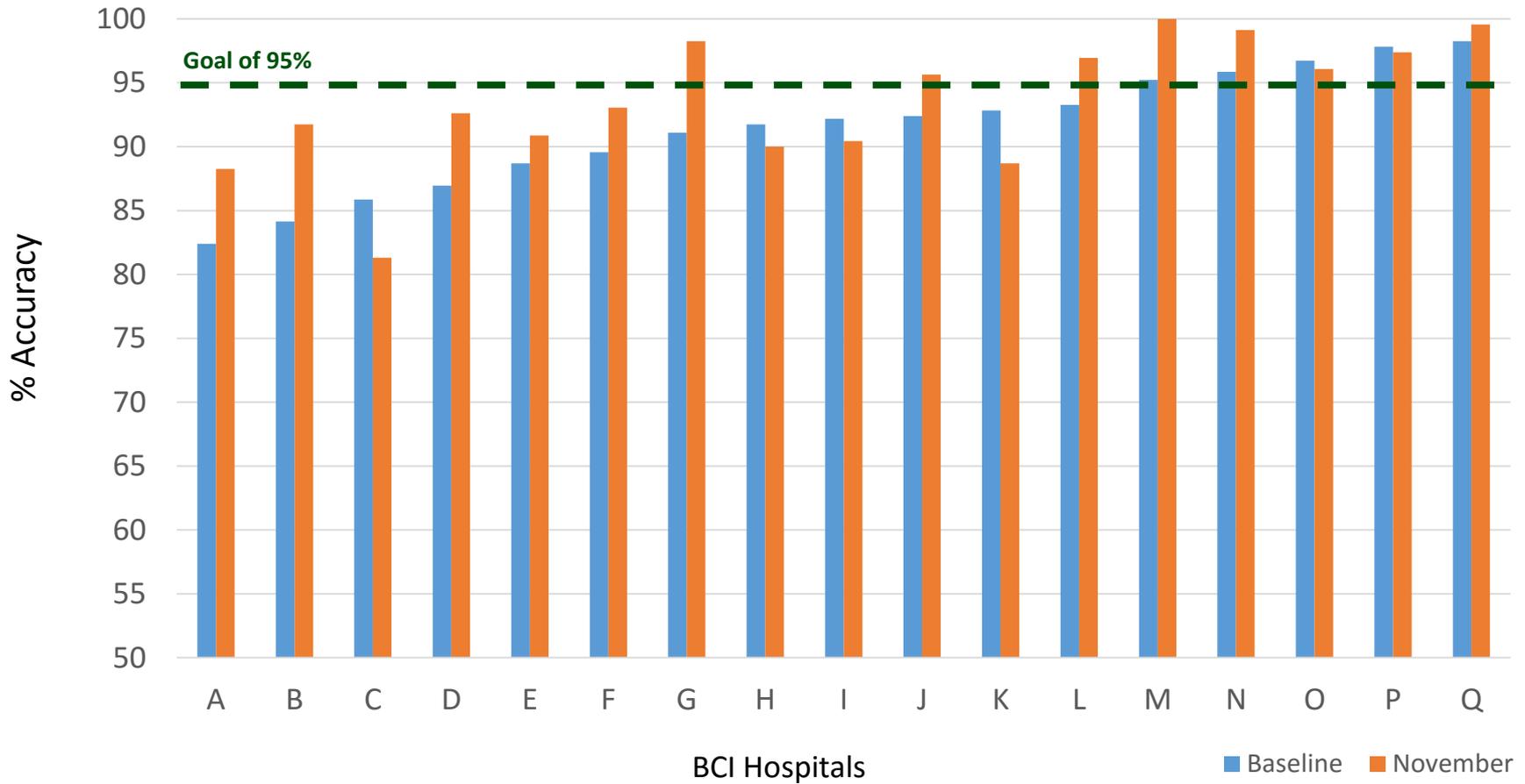
**Tampa General Hospital**  
**Bayfront Health**

# What is the Data Showing?

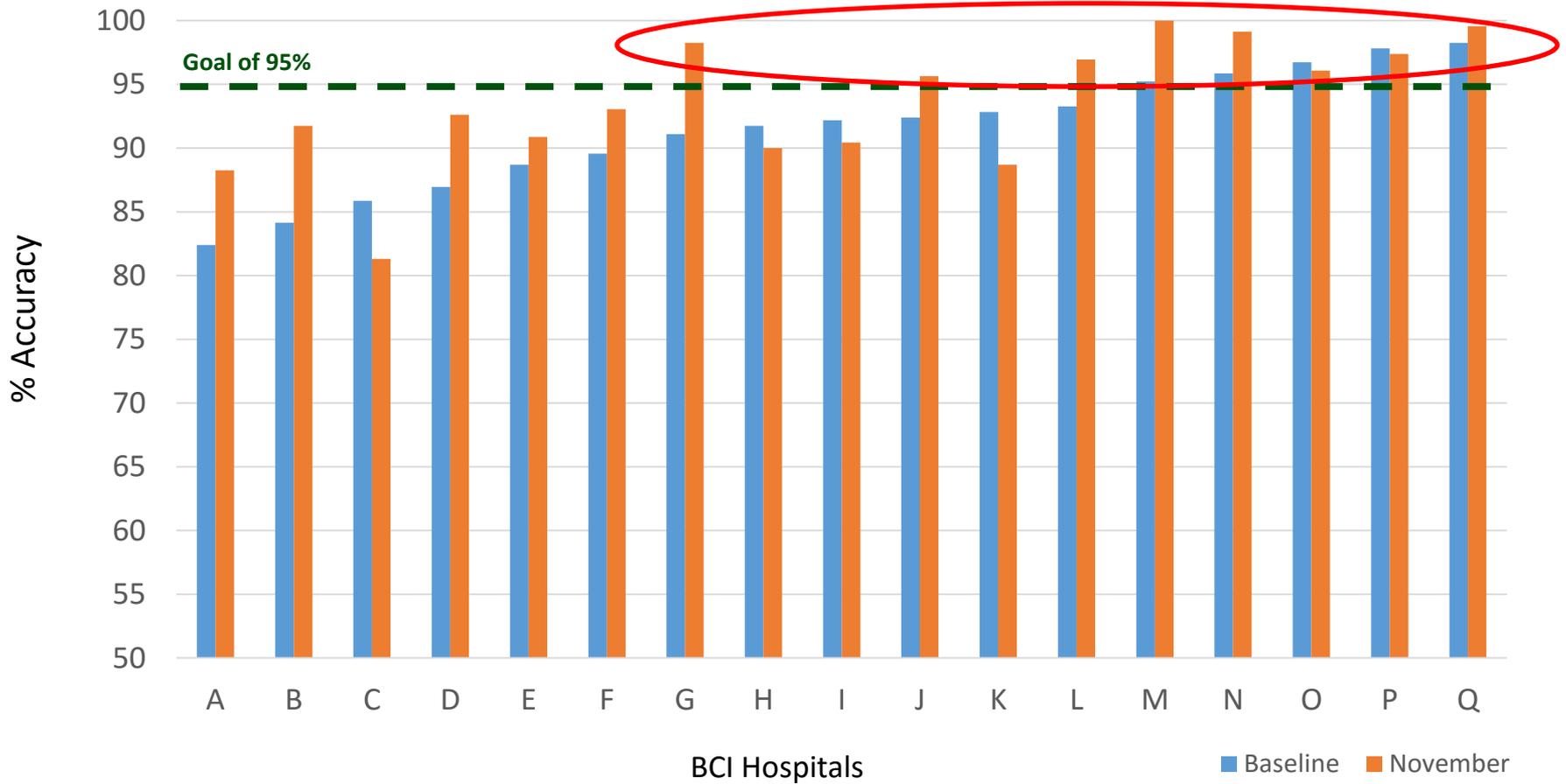
# Average Percent Accuracy of All 23 Birth Certificate Variables – BCI Initiative-Wide



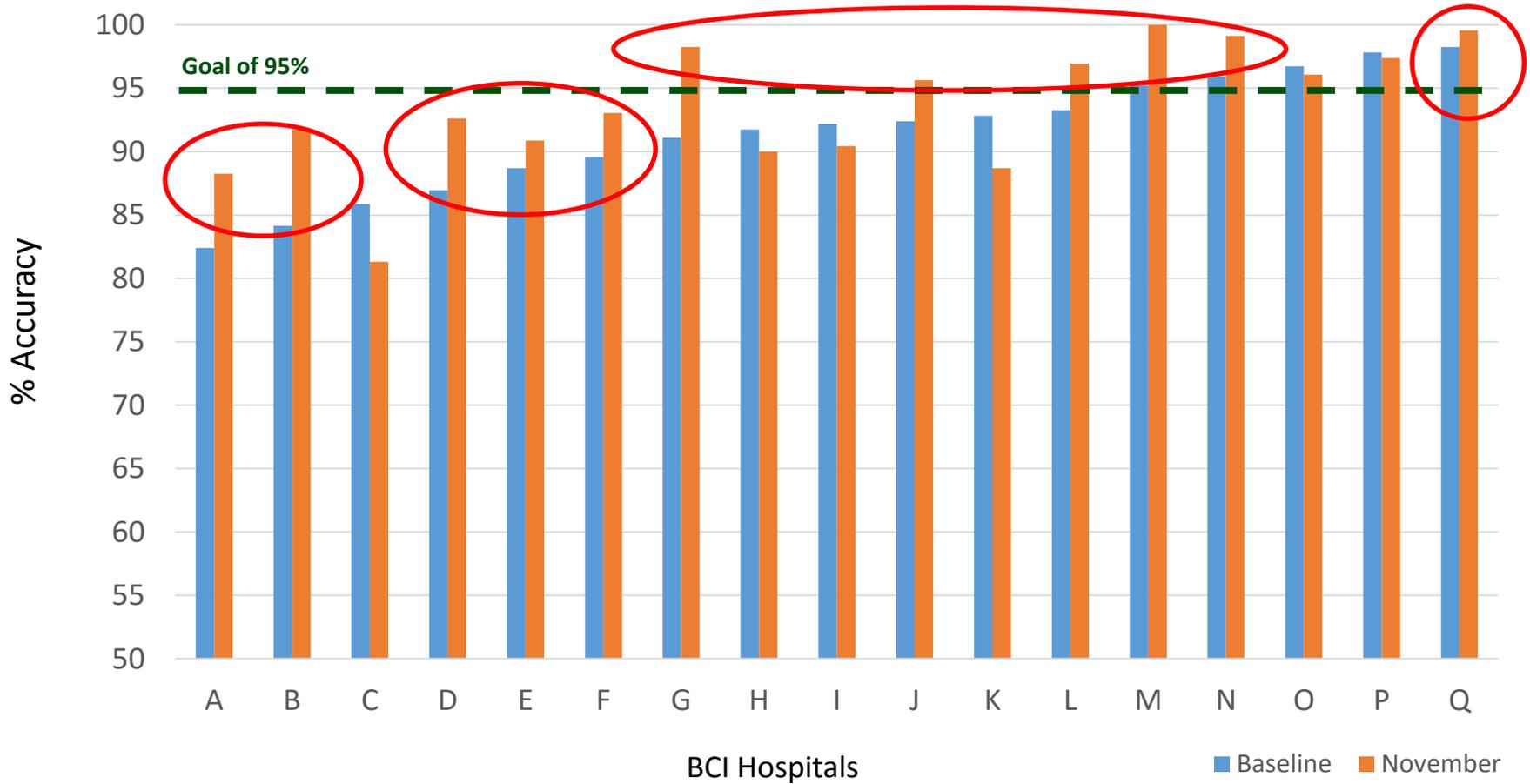
# Average Percent Accuracy of All 17 BCI Hospitals from Baseline



# Average Percent Accuracy of All 17 BCI Hospitals from Baseline

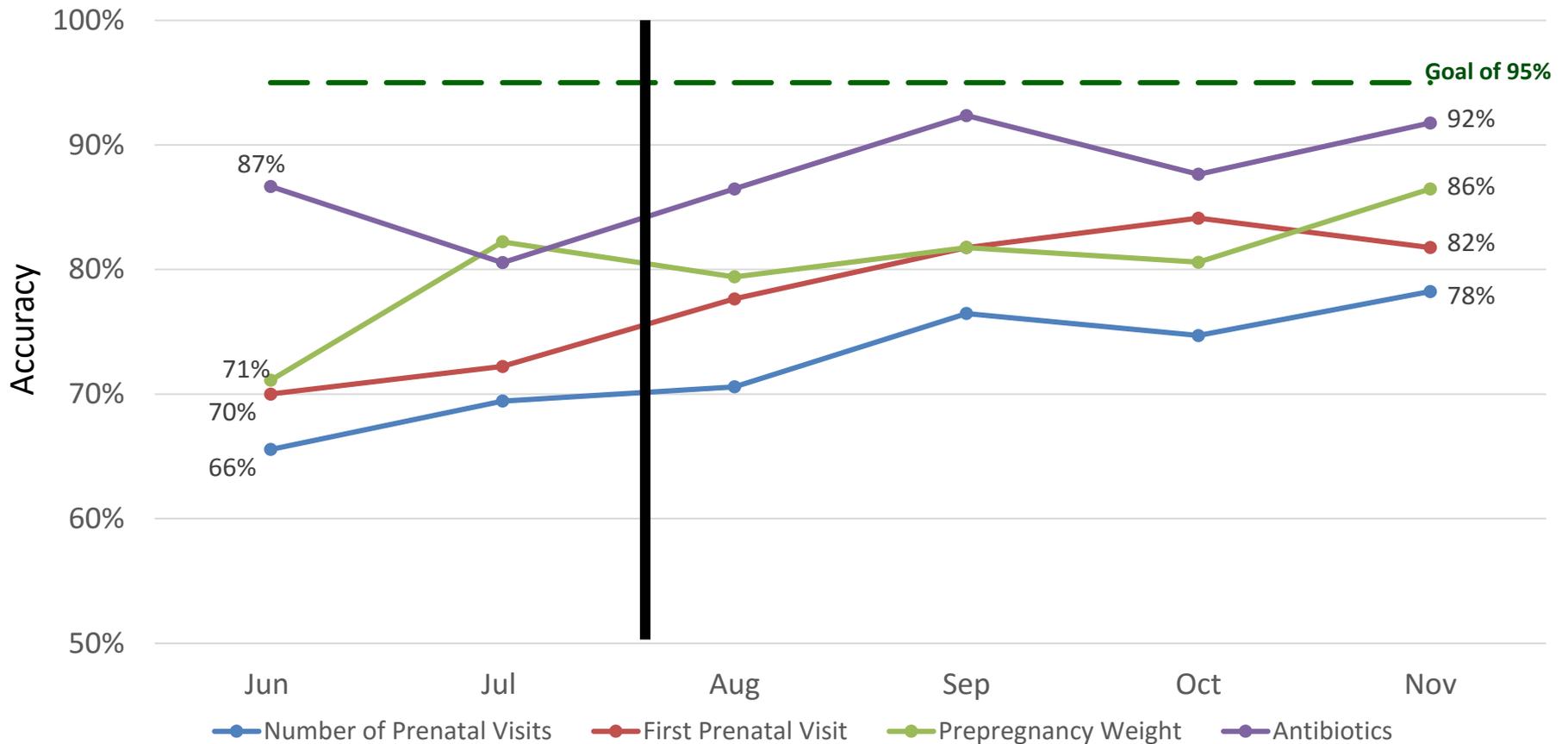


# Average Percent Accuracy of All 17 BCI Hospitals from Baseline



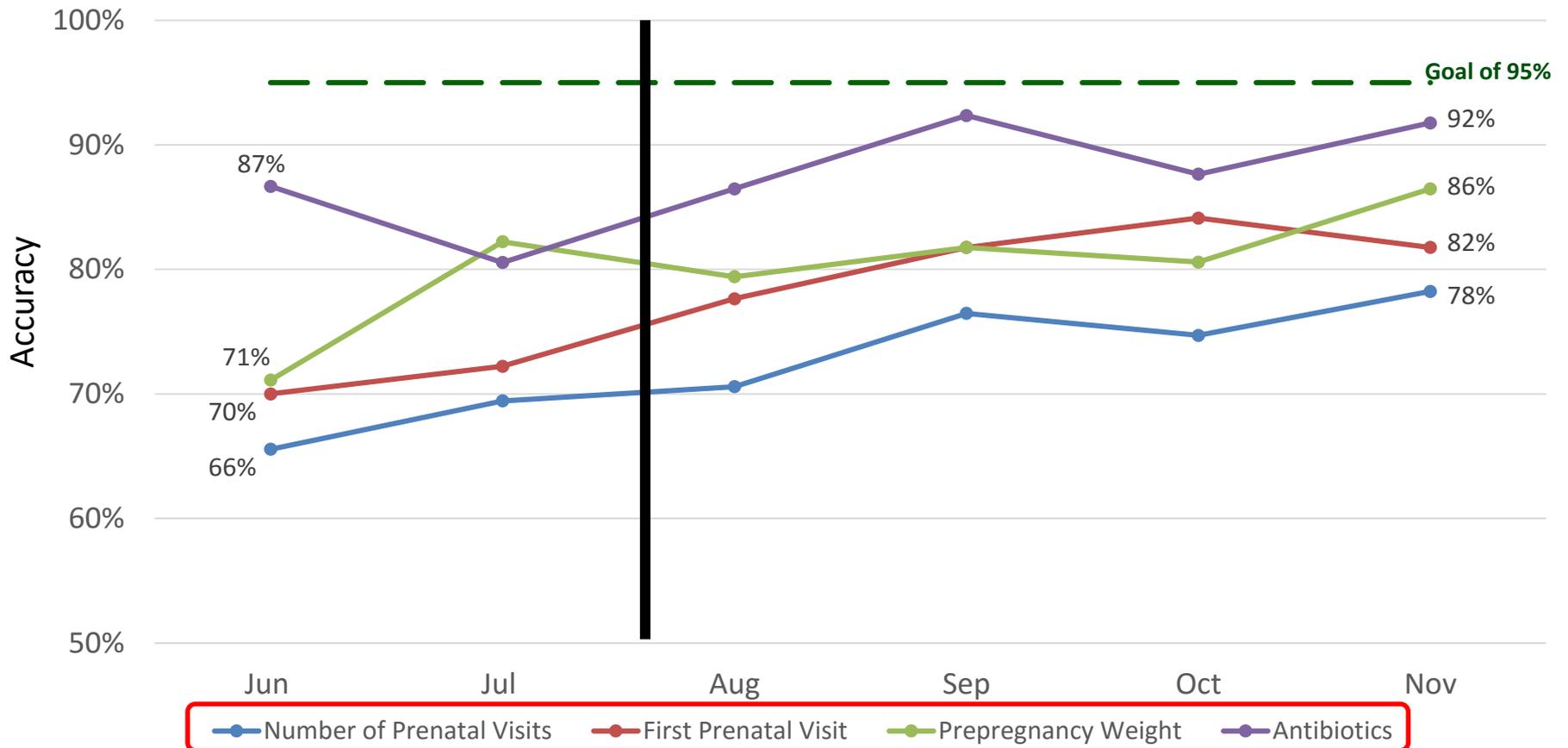
# Average Percent Accuracy for BCI Hospitals

## Measures with the largest improvement

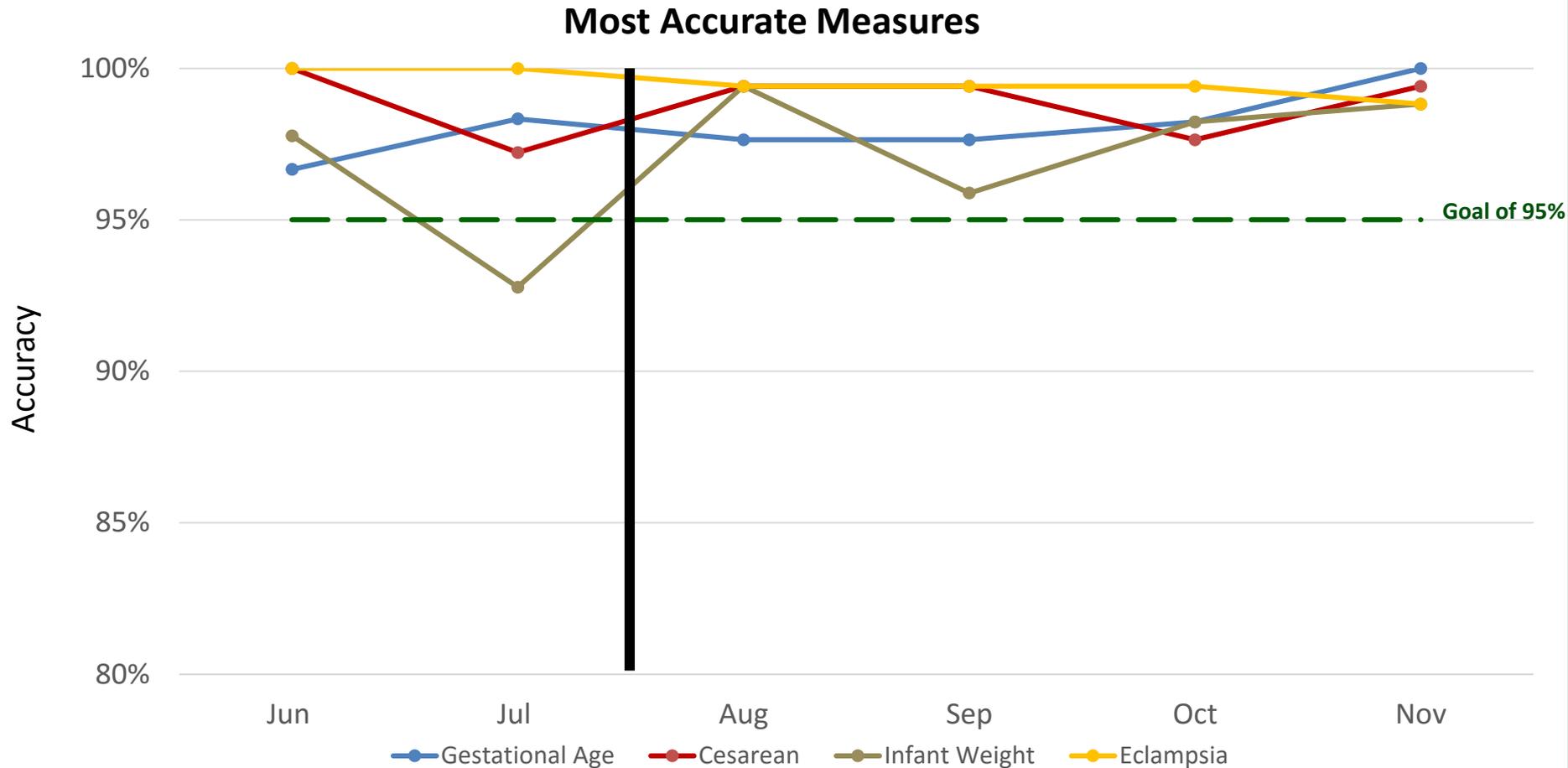


# Average Percent Accuracy for BCI Hospitals

## Measures with the largest improvement



# Average Percent Accuracy for BCI Hospitals

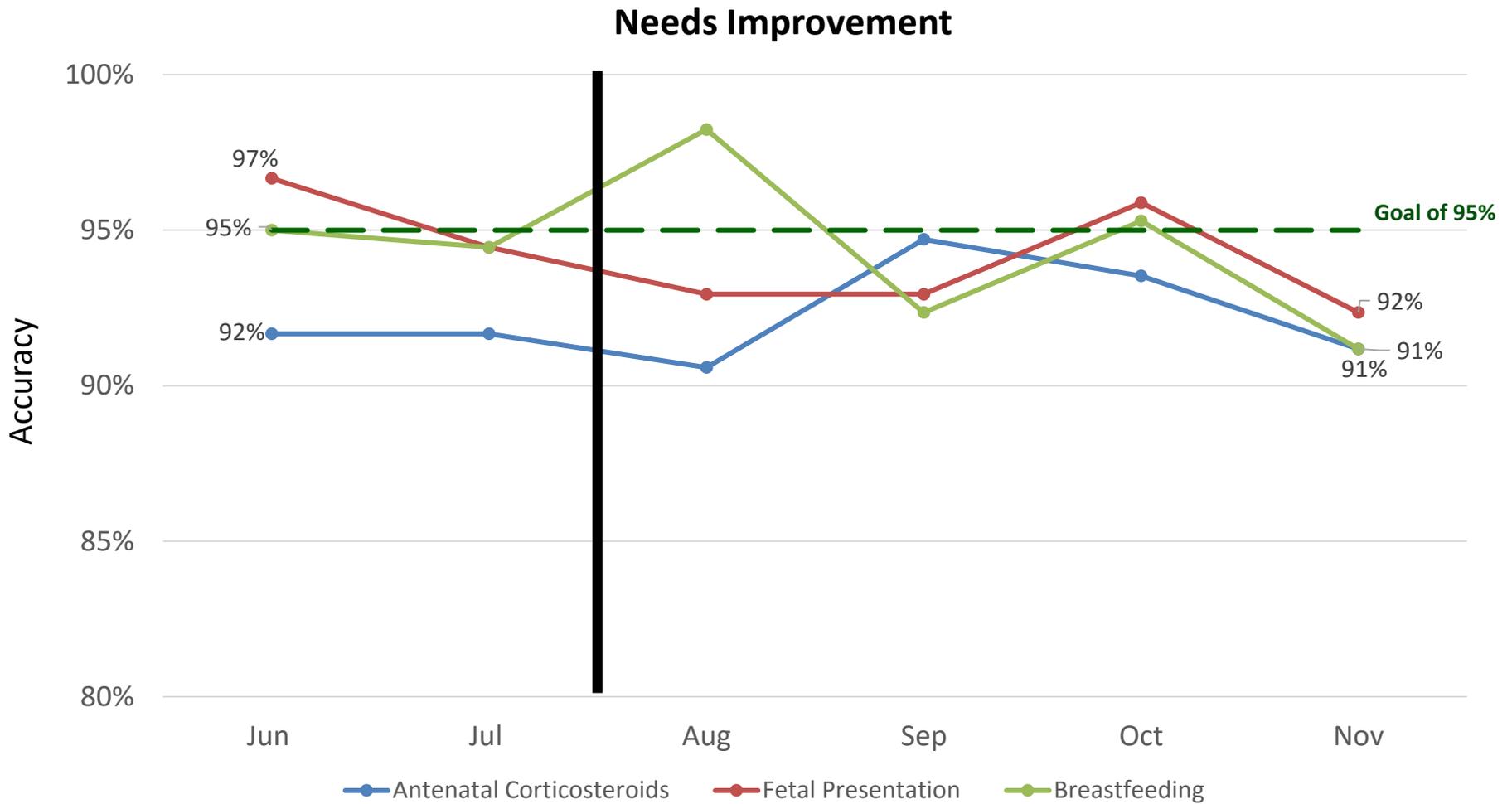


The word "Congratulations" is written in a gold, cursive font. It is surrounded by various colorful decorative elements: a blue arc and square, a red triangle, a cyan spiral, a yellow diamond, and a purple spiral. There is also a small black dash at the bottom right.

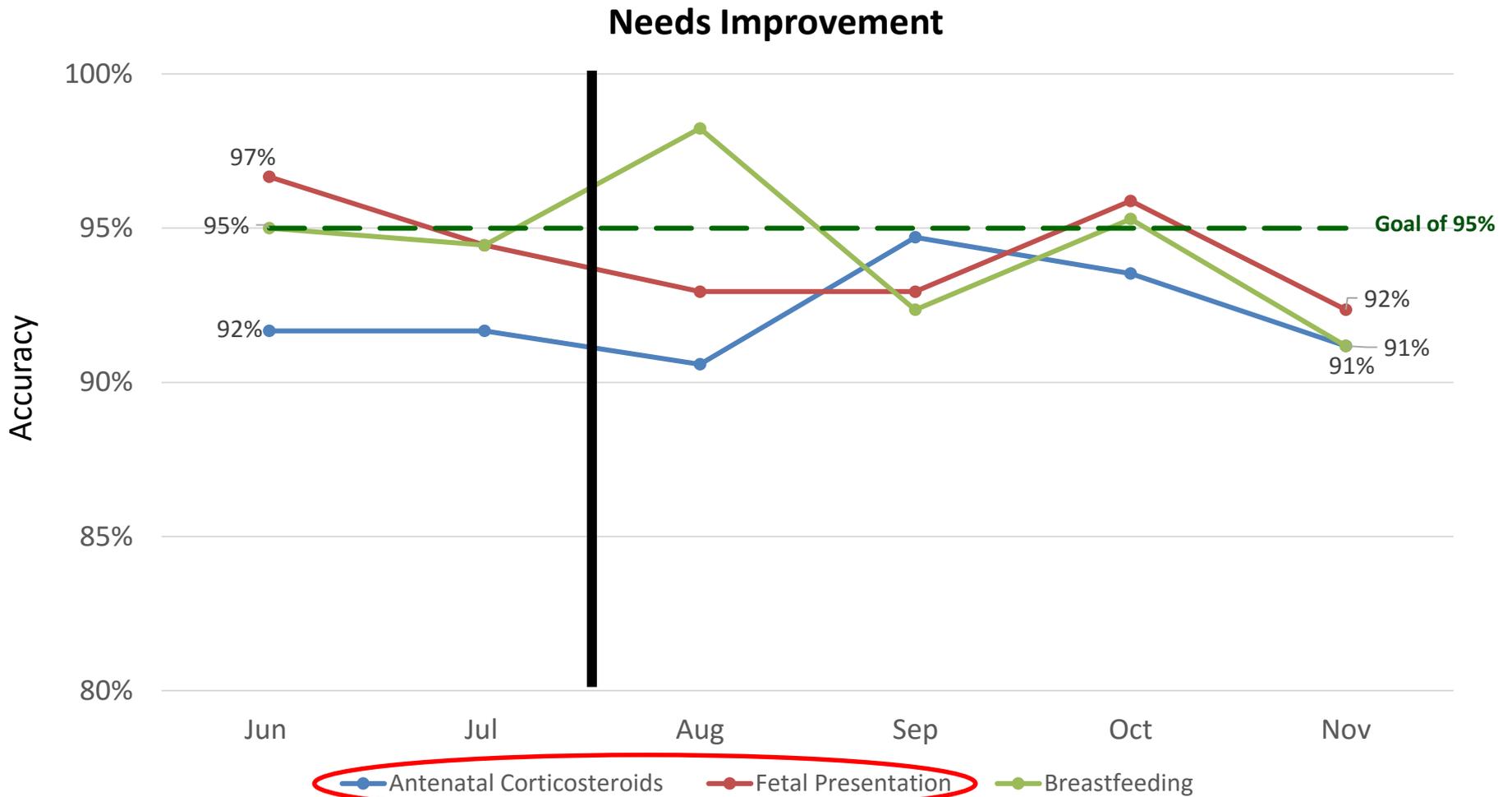
# *Congratulations*

# Opportunities for Improvement

# Average Percent Accuracy for BCI Hospitals

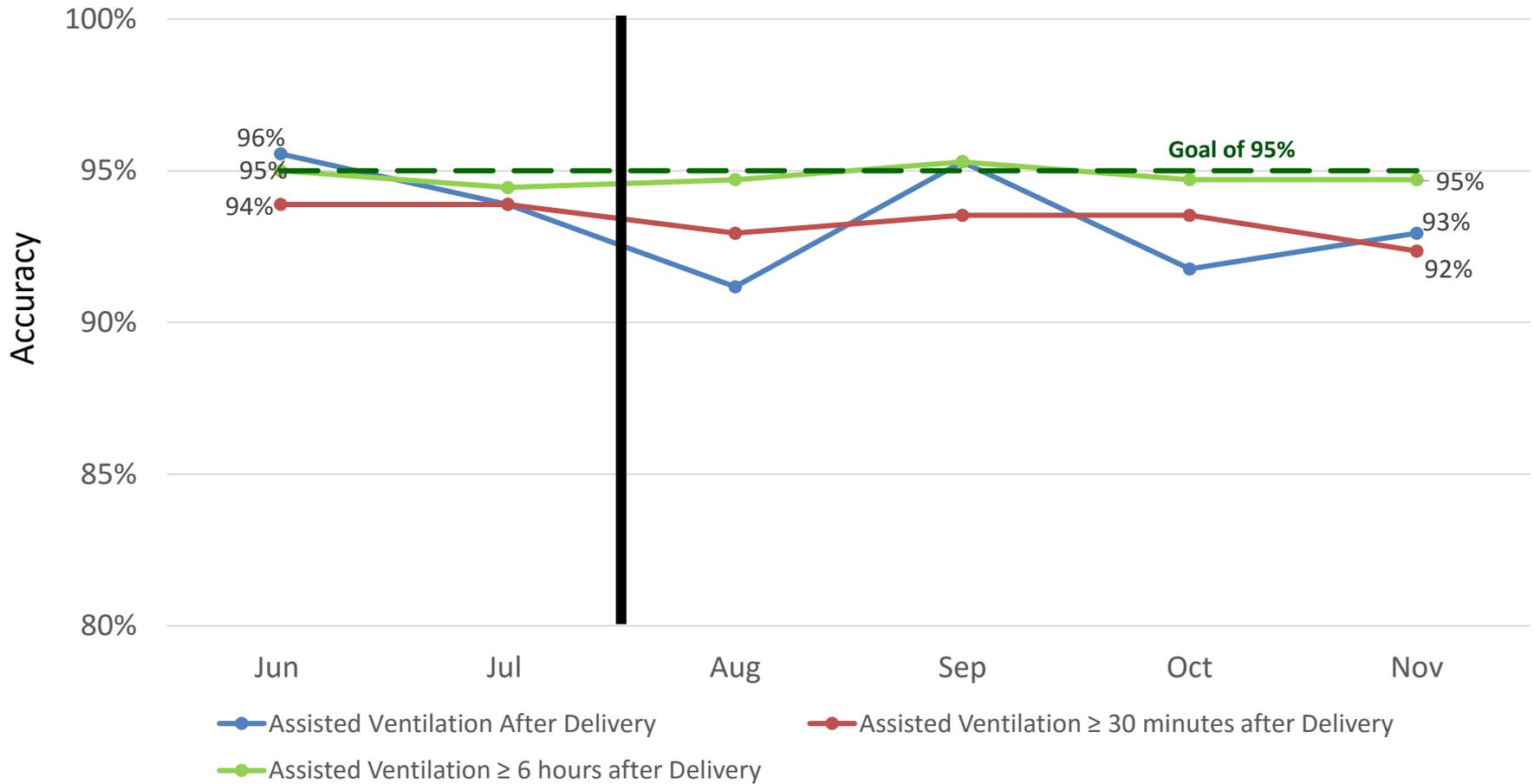


# Average Percent Accuracy for BCI Hospitals

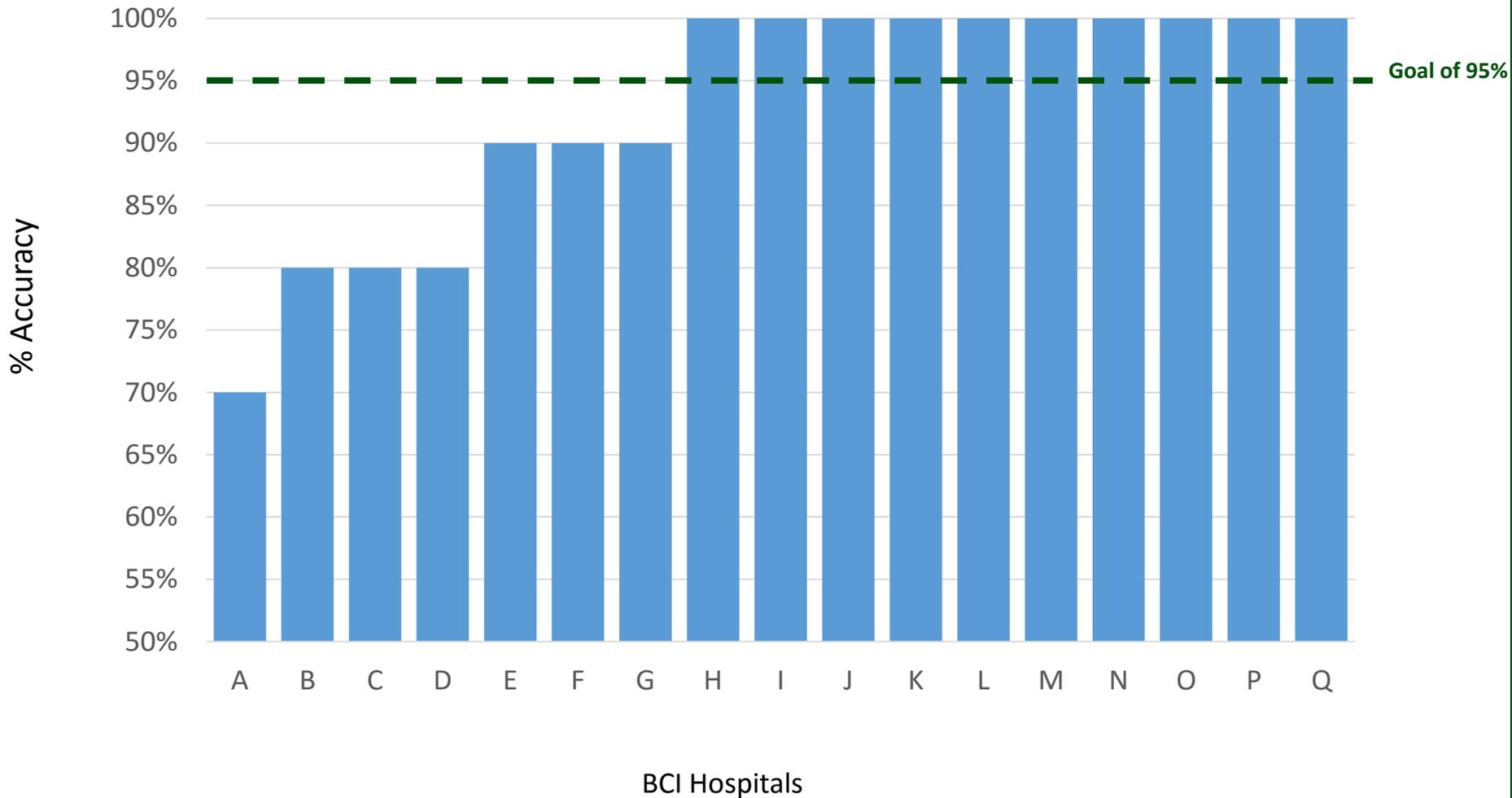


# Ventilation Variables

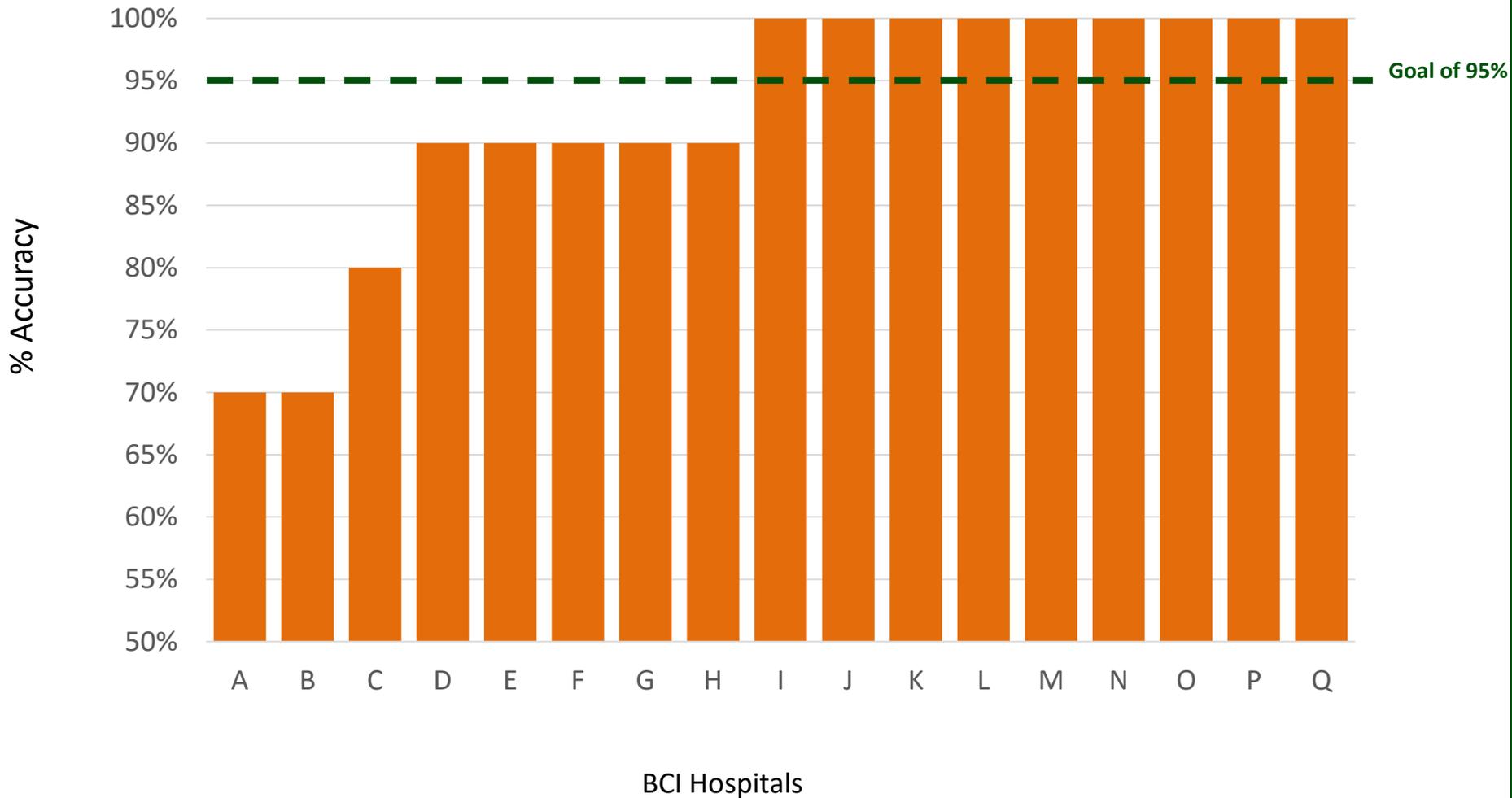
# Average Percent Accuracy of Infant Condition Variables –for BCI Hospitals



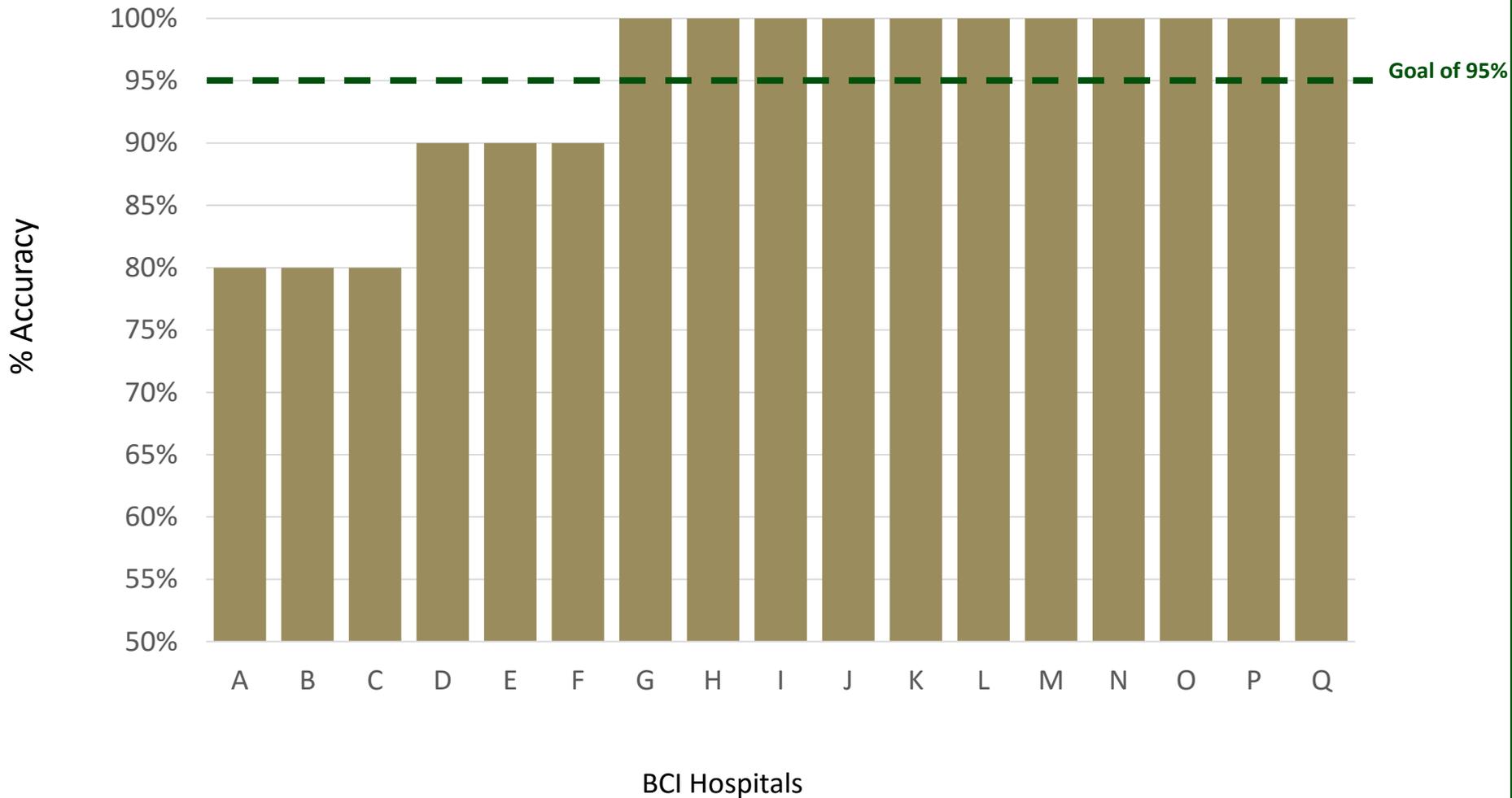
# Accuracy of Assisted Ventilation Required: Immediately Following Delivery



# 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 O<sub>2</sub> 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**

1<sup>st</sup> 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

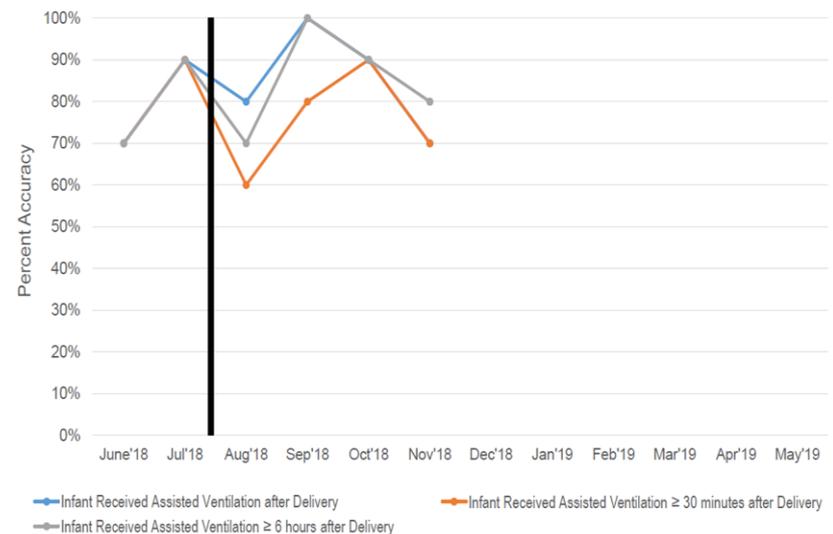
- Manual breaths/mechanical ventilation for any duration
- DOES NOT include blow by, free flow oxygen, aspiration, or nasal cannula

👶 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 28<sup>th</sup>, 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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