

OCTOBER - DECEMBER 2022

# QI QUARTERLY

## VOLUME 2



**PREPARED AND PRESENTED BY**

SAMUEL GENTLE, MD

# 3RD ANNUAL PEDIATRIC QUALITY AND SAFETY DAY



This year's Quality and Safety Day included talks from Children's of Alabama's beloved Director of Customer and Language Services **Amado Santos**, testimonies of the patient experience, a discussion regarding the importance of DEI from **Dr. Madhura Hallman**, and a review of the resident's M&M Initiative by **Dr. Sarah Fleisher**. This year's first prize was awarded to **Ashley Moellinger** and **Dr. Hayden Zaccagni**.

## THIS YEAR'S POSTERS

**A reintervention reduction bundle improves outcomes in patients following a Norwood procedure.**  
Ashley. Moellinger, CRNP

**Reducing High Flow Nasal Cannula Use in Mild to Moderate Bronchiolitis with a High Flow Initiation Pause**  
Elizabeth Mertens, MD

**Reducing unplanned pregnancies in child bearing patients with autoimmune disease in the pediatric rheumatology clinic.**  
Linda McAllister, CRNP

**Improving communication and health literacy among established rheumatology clinic patients.**  
Carolyn Smith, CRNP

**Engaging Stakeholders in Planning Stages for Quality Improvement Initiative**  
Jessica Schmitt, MD

**Description and Delays in Care in the Bridge to Adult Care from Childhood for Young Adults with Rheumatic Disease (BACC YARD) Program, a Pediatric-to-Adult Rheumatology Transition Program**  
John M. Bridges

**Reliable Transition Policy Distribution and Transition Readiness Assessment Questionnaire Completion using a Digital Intervention in a Pediatric Rheumatology Clinic**  
Smitherman EA

**Implementing an indication-based strategy for obtaining routine chest X-rays in the pediatric ICU.**  
Ananya Manchikalapati

**Improving healthcare utilization for children with no safe drink consistency on outpatient videofluoroscopic swallow studies**  
Guillermo Beltran Ale

# MOC PART 4



The American Board of Pediatrics Improving Professional Practice and Quality Improvement (Part 4) of Maintenance of Certification (MOC) is designed to help you assess and improve the quality of patient care and processes that will lead to improved child health. Part 4 activities can be completed any time during your five-year MOC cycle. You can earn MOC Part 4 credit for work that you are already doing. **POISE is available to help facilitate submissions!** More information can be found at:

<https://www.childrensal.org/maintenance-certification/maintenance-certification-overview>

## THIS YEAR'S PROJECTS

### **Norwood Reintervention Reduction**

Project Lead: Hayden Zaccagni

Impact: After implementation of the bundle, the un-planned re-intervention (UPR) rate following the Norwood operation decreased by 30% with a reduction in cardiac arrest rates, stage 1 UPR, interstage UPR and UPR from post-op bleeding.

### **Improvement of acute chest syndrome outcomes through standardizing care.**

Project Lead: Ammar Saadoon Alishlash

Impact: Over the initial 3 years of the protocol, there was an overall improvement in the LOS from 166 hours to 102 hours (38% reduction,  $p < 0.0001$ ).

### **No Safe Swallow**

Project Lead: Rachel Kassel

Impact: One year after no safe drink consistency (NSS) protocol initiation, immediate unplanned hospital admissions after studies indicating no safe consistency decreased by 61% (59% to 23%).

### **Pediatric Hospitalist Medicine Cohesion Committee**

Project Lead: Cassi Smola

Aim: To decrease the percentage of High Stress in PHM Faculty by 25% by November 2022.

### **Improving Access to Lactation Trays for Breastfeeding Mothers**

Project Lead: Stephanie Berger

Impact: For mothers of breastfeeding infants, the number of food trays ordered within two hours almost doubled from around 45% to about 78%.

### **Improving referral rates to Help Me Grow Alabama to combat Adverse Childhood Experiences and to build Resilience in PCC**

Project Lead: Sarah Spencer

Impact: This project of linking early intervention referrals and spotlighting the issues to residents was able to improve referral rates from 3 to 11 per month, thereby improving patient access to resources.

### **Firearm Safety in Primary Care Clinic**

Project Lead: Andrew Donahue

Aim: The objectives of this QI project are to improve the consistency and quality of firearm safety counseling in PCC and distribute gun locks to patients.

# INTRODUCING NEW PHYSICIAN QUALITY OFFICERS



**ASHLEY MOELLINGER, CRNP**  
CVICU



**HAYDEN ZACCAGNI, MD**  
CVICU

## A BIT MORE ON OUR OFFICERS...

Physician Quality Officers within the UAB Department of Pediatrics are established leaders in quality improvement informed by formalized training and dedication to improvement within and beyond their subspecialty. Through their engagement with POISE we aim to grow the Department's QI capacity through improved education, coaching and data analysis to ultimately improve the care of the children of Alabama. Through our combined efforts we aim to advance the academic productivity of the Department of Pediatrics as it relates to quality improvement as well as benefitting the faculty in assisting with MOC IV certification of existing projects.



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# WELCOME ANNE KINYUA!

We are excited to announce the newest member of POISE: Anne Kinyua! Anne will serve as Administrative Assistant for the office. She obtained her Bachelors in Healthcare Management at Capella University in Minneapolis and is pursuing a MPH in Healthcare Management at UAB. Anne will help facilitate all things POISE from educational didactics to support our trainees, to QI outreach, to helping support this year's 4th Annual Pediatric Quality and Safety Day.

Welcome Anne!!!

# PROJECT SPOTLIGHT



## SIM EDUCATION TO REDUCE CLABSI

### IMPROVING ADHERENCE TO CARE BUNDLES

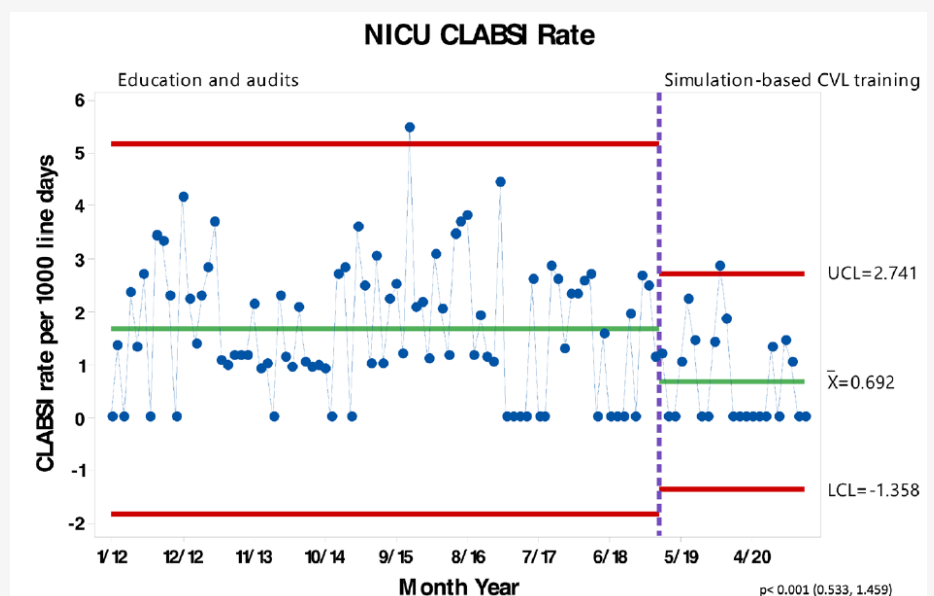
Critically ill neonates frequently require a central line for clinical management. Central line-associated bloodstream infections (CLABSI) increase infants' morbidity and mortality. Care bundles have been shown to effectively reduce CLABSI rates, however challenges such as staff turnover, staff buy-in, and means to improve non-compliance may constrain bundle efficacy.



Under the leadership of **Dr. Hannah Hightower**, the aim of this initiative was **to reduce the CLABSI rate through greater adherence to care bundles by utilizing Job Instruction Sheets and Train the Trainer simulation processes**. Through this intervention the NICU observed a reduction in CLABSI rates below 1 per 1000 line days. The team published their initiative's work in *Pediatric Quality & Safety* in October 2022.



**Dr. Hannah Hightower**



# OUR PROGRESS

## UPDATES FROM THE OFFICE

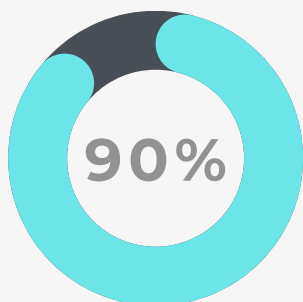


## THE STATE OF QUALITY IMPROVEMENT

### Fellow QI Education

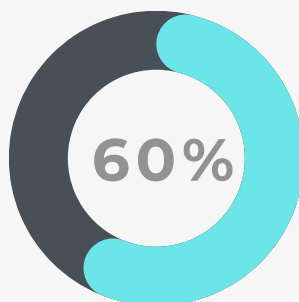
So as to help facilitate the growth of future leaders in quality improvement, POISE has been identifying ways in which departmental fellows receive QI education. In reaching out to division directors within the DOP, we identified an interest in additional QI training and project support. In surveying divisions, this is how Division Directors responded:

#### Current QI Fellow Education



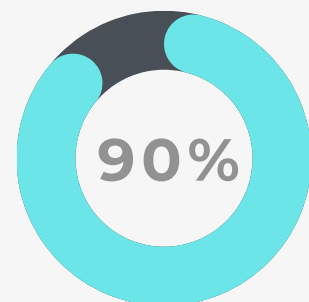
Mini Quality Academy

#### Interest in Additional Education



Very-Extremely Interested

#### Additional Fellow QI Project Support



Moderately-Extremely Interested



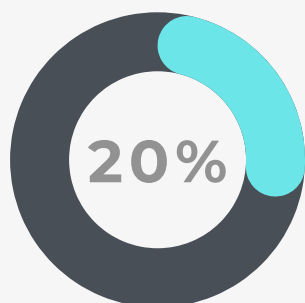
# OUR PROGRESS



## POISE NEED ASSESSMENTS

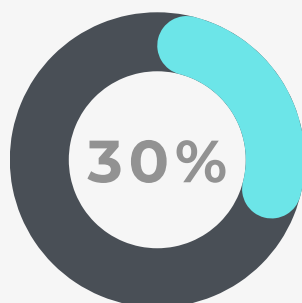
In going division to division and assessing the current state of QI expertise and QI resources, we have identified the greater need for additional support across the DOP. In assessing what areas of quality improvement are in need of greater support, the majority of respondents indicated Informatics and Dashboard Support. Following the introduction of EPIC, POISE, in partnership with Performance Improvement, are dedicated to dashboard improvement so that providers across the DOP can continuously assess meaningful metrics in their patient population to realize improvement in patient outcomes.

### Divisions Equipped with QI Resources



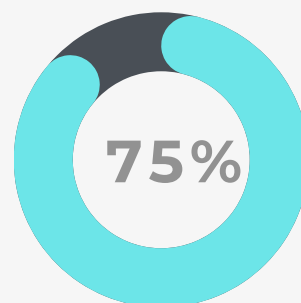
Respondents Agreed

### Divisions Equipped with QI Expertise



Respondents Agreed

### Additional Informatics and Dashboard Support



Indicated Interest for Additional Support

## DIVISION OUTREACH

Every month, the POISE engages with a division with the DOP to discuss opportunities for POISE engagement including education, project management, and recognition. For this quarter the POISE engaged with the divisions of **Infectious Disease** and **Hematology Oncology**. In January, we will be meeting with **Academic General Pediatrics** and **Adolescent Medicine**. While we plan to meet with all divisions, should you have an interest in getting scheduled earlier in the year, please reach out to us at [POISE@uabmc.edu](mailto:POISE@uabmc.edu).

**We're here to help you improve!**

Get in touch:

**[POISE@uabmc.edu](mailto:POISE@uabmc.edu)**





# PROJECTED TIMELINE

TASK	START DATE	END DATE
<b>QUARTER 04</b> OUTREACH, MOC IV APPROVALS	OCTOBER 2022	DECEMBER 2022
<b>QUARTER 01</b> CONTINUED OUTREACH	JANUARY 2023	MARCH 2023
<b>QUARTER 02</b> SUBGROUP FOUNDATION	APRIL 2023	JUNE 2023