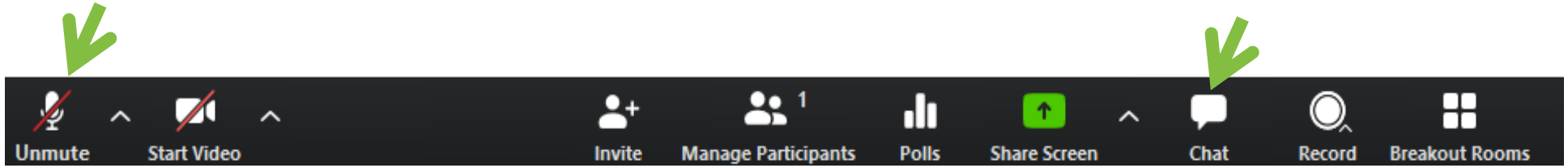
Neonatal Initiatives

Action Period Call
March 27th, 2024
12:00 – 1:00 PM CT

Welcome

- Please type your name and the organization you represent in the chat box and send to "Everyone."
- Please click on the three dots in the upper right corner of your Zoom image, click "Rename" and put your name and organization.
- Please also do for all those in the room with you viewing the webinar.
- Attendees are automatically muted to reduce background noise.
- You may enter questions/comments in the "chat" box during the presentation. We will have a Q&A session at the end.
- Slides will be available via email and at http://www.alpqc.org/initiatives/nhp
- We will be recording this call to share, along with any slides.



Agenda

Activity	Time
Welcome, Updates, & Reminders	12:00-12:10
Hospital Poll	12:10-12:15
Preventing Hypothermia	12:15-12:30
Tableau Visualization	12:30-12:45
Q&A	12:45-12:55
Reminders & Next Steps	12:55-1:00

Updates

Updates & Reminders

- Baseline data for Neonatal Hypothermia Prevention Initiative is due March 31, 2024 (Dec-Feb)
  - Link sent out on February 14th and March 15th
  - Please let us know if you did not receive the links for the baseline surveys

- The ALPQC Quarterly Newsletter was released on March 15th via email and is also available on the alpqc.org website

Hospitals who have entered 100% of their Baseline Data

(as of 03/27/24)

1. St. Vincent's Hospital	9. Flowers Hospital
2. East Alabama Medical Center (x2)	10. Jackson Hospital
3. Madison Hospital	11. DCH Regional Medical Center (x2)
4. Russell Medical Center	12. Northport Medical Center (x2)
5. UAB (x2)	13. USA Children's & Women's Hospital
6. Medical Center Enterprise	14. Marshall Medical Center North
7. Gadsden Regional Medical Center	15. Baptist Medical Center East
8. USA Providence	

Hospital Poll

Poll Questions

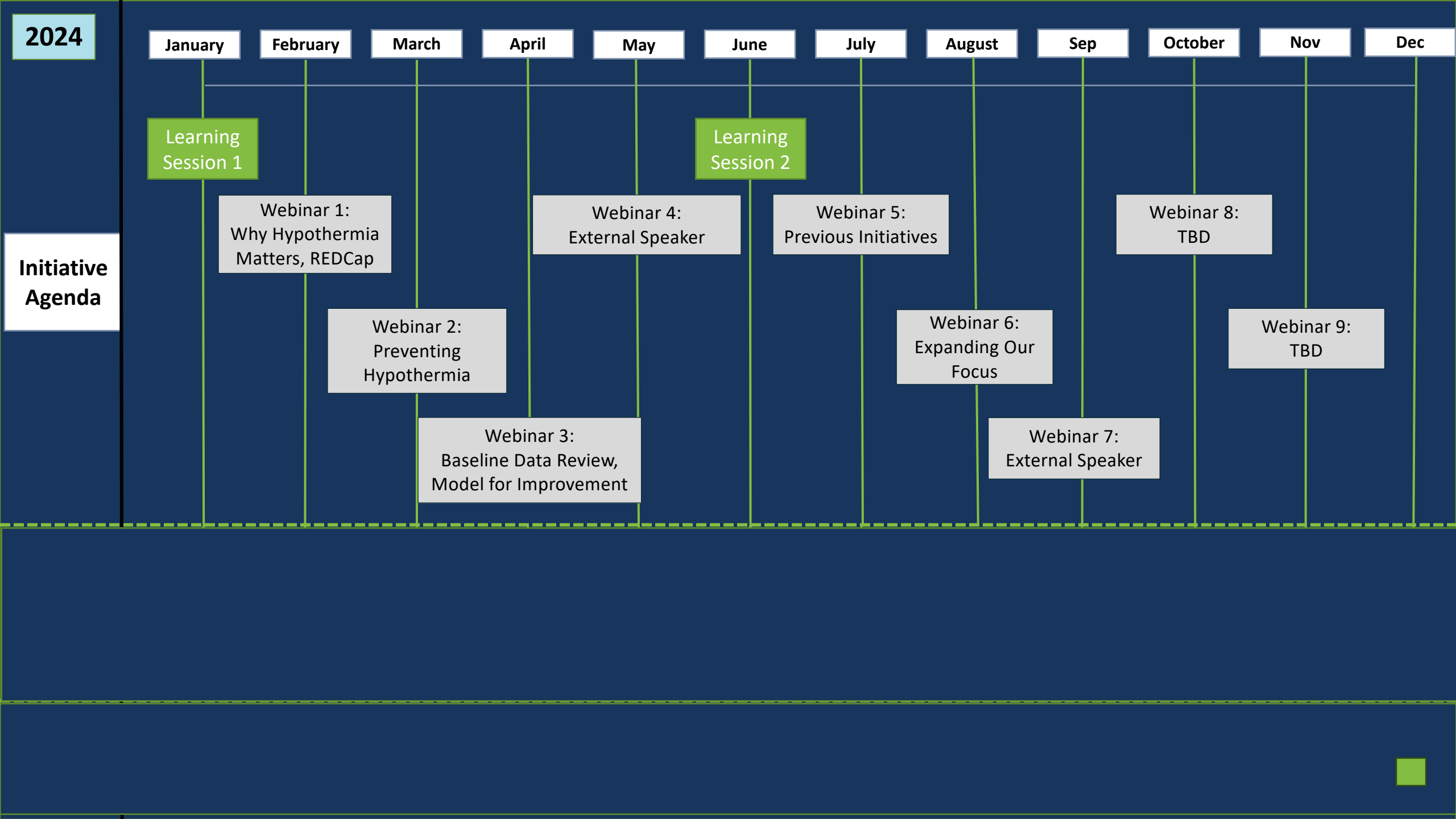
- Does your hospital currently have a process to manage an infant after they become hypothermic?
  - Yes
  - No
  - I don’t know

- Does your hospital use a checklist to prepare for deliveries?
  - Yes, for certain deliveries
  - Yes, for all deliveries
  - No
  - I don’t know

Poll Questions (cont.)

- Does your hospital use either plastic wraps or warming mattresses at deliveries?
  - Yes, for infants <29 weeks' gestation
  - Yes, for infants <32 weeks' gestation
  - Yes, for infants <35 weeks' gestation
  - No, we don't use either
  - I don't know

Preventing Hypothermia


2024
January
February
March
April
May
June
July
August
Sep
October
Nov
Dec
Initiative Agenda
Learning Session 1
Learning Session 2
Webinar 1: Why Hypothermia Matters, REDCap
Webinar 2: Preventing Hypothermia
Webinar 3: Baseline Data Review, Model for Improvement
Webinar 4: External Speaker
Webinar 5: Previous Initiatives
Webinar 6: Expanding Our Focus
Webinar 7: External Speaker
Webinar 8: TBD
Webinar 9: TBD

QUALITY IMPROVEMENT

Implementation of a multidisciplinary guideline improves preterm infant admission temperatures

MW Haner[1,4], B Vargales[1], T Cady[2], A Early[2], C Chisholm[3] and JR Swanson[1]

- Location: University of Virginia
- Setting: 51 bed unit with ~200 <35 week admissions per year
- Population: All <35 week infants are admitted to NICU
- Observed 22 deliveries to identify major issues that were recurrent
- After identification of these drivers, develop thermoregulation guidelines
- Process measures: room temperature, use of mattress, use of plastic wrap, and adherence to guideline
- Temperature used: temperature on arrival to the NICU

QUALITY IMPROVEMENT

Implementation of a multidisciplinary guideline improves preterm infant admission temperatures

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Table 2. Observations and plan to address the problems

Observation	*Plan*
Wide range of room temperatures at delivery	Goal operating room temperature >22.8 °C (73 °F)
No uniform use of EM or PB	Guideline of when to use EM and PB • EM for all babies <35 weeks • PB for all babies <32 weeks
No axillary temperatures taken in the delivery room	Take an axillary temperature at 10 min of age and every 10 min subsequently until arrival in the NICU
Different transport methods	Develop uniform method of transporting different gestational age groups • Transport <28 week babies with NICU incubator and shuttle • Transport >28 week babies with transport-specific incubator

Abbreviations: EM, exothermic mattress; NICU, Neonatal Intensive Care Unit; PB, polyurethane bag.

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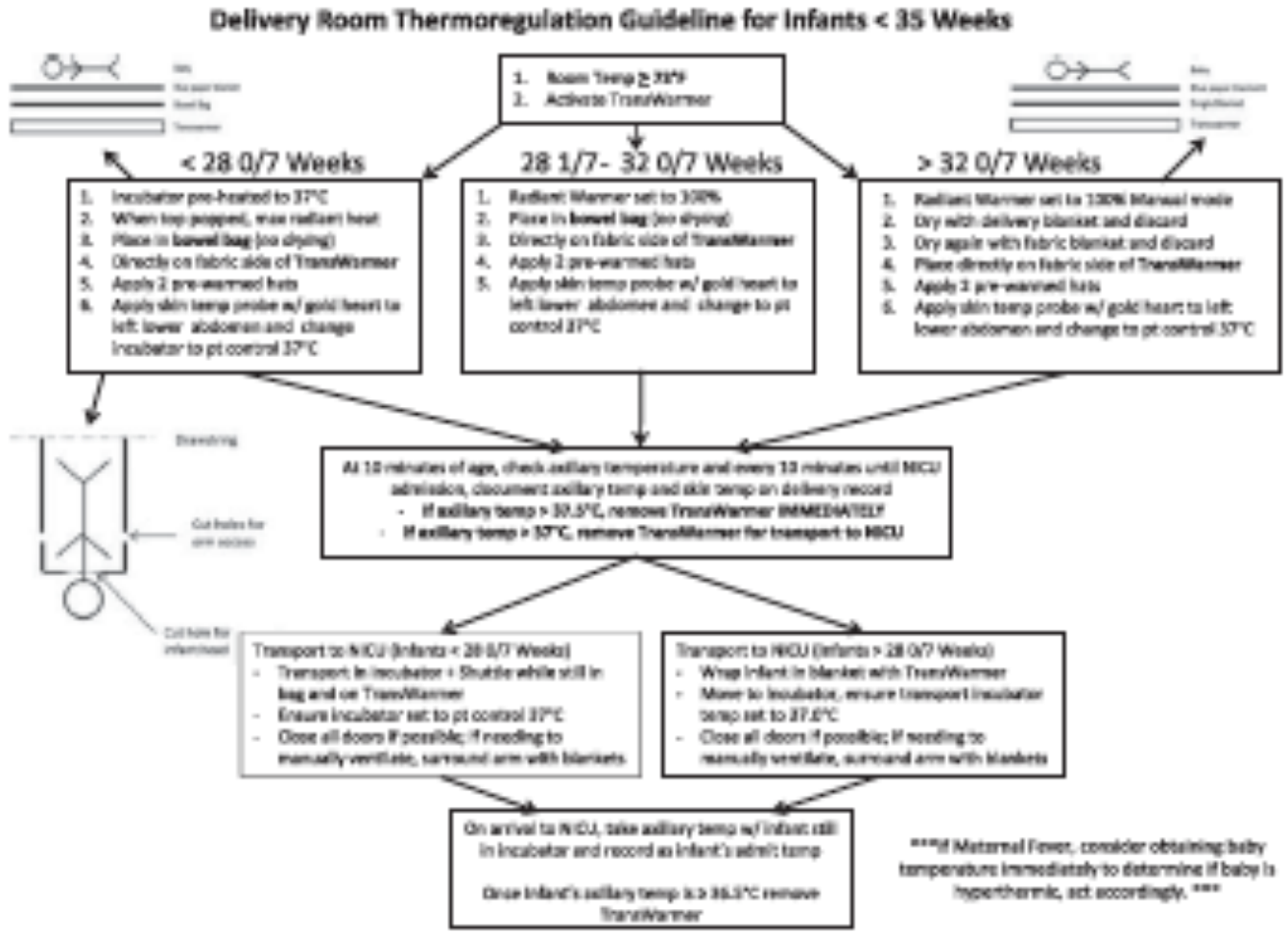


QUALITY IMPROVEMENT

Implementation of a multidisciplinary guideline improves preterm infant admission temperatures

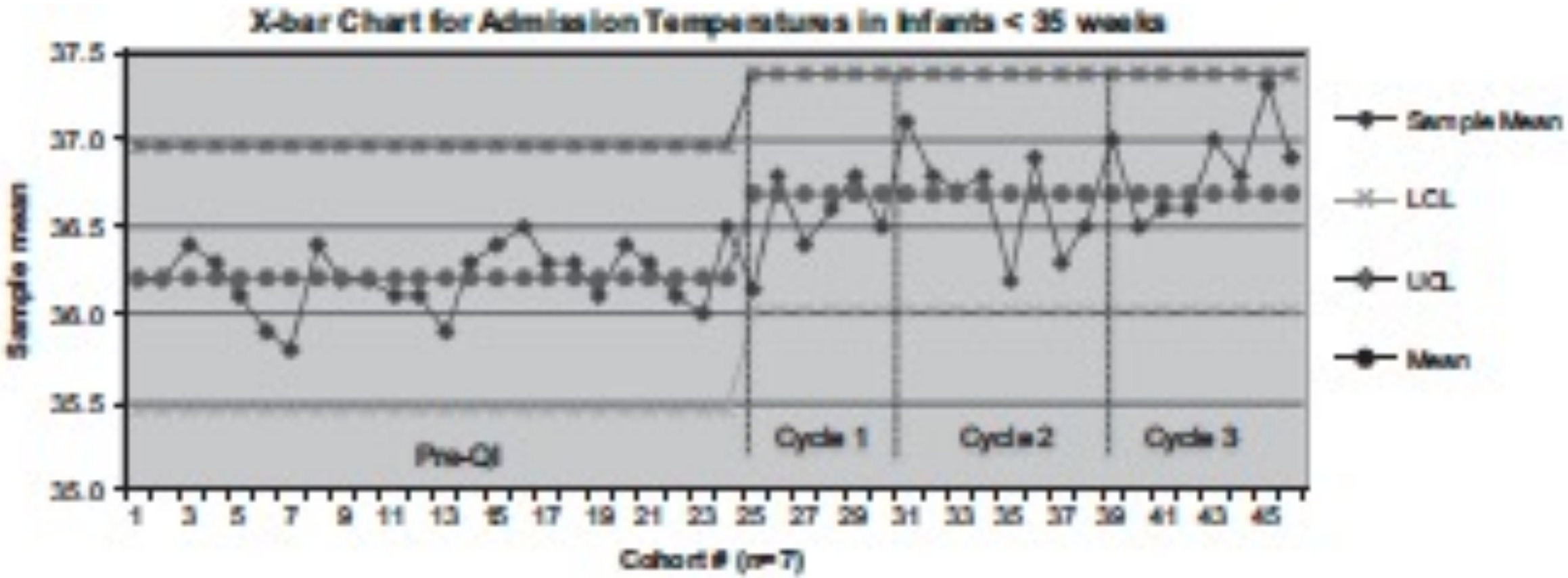
MW Haner[1,4], B Vargales[1], T Cady[2], A Early[2], C Chisholm[3] and JR Swanson[1]

Population	Guideline
<28 weeks	• Incubator preheated to 37°C • Place in bowel bag • Directly on fabric side of warming mattress • 2 pre warmed hats • Apply skin temp probe to abdomen
28— 32 weeks	• Radiant warmer set to 100% • Place in bowel bag • Directly on fabric side of warming mattress • 2 pre warmed hats • Apply skin temp probe to abdomen
32 – 35 weeks	• Radiant warmer set to 100% • Dry with delivery towel and discard • Directly on fabric side of warming mattress • 2 pre warmed hats • Apply skin temp probe to abdomen

QUALITY IMPROVEMENT

Implementation of a multidisciplinary guideline improves preterm infant admission temperatures

MW Haner[1,4], B Vargales[1], T Cady[2], A Early[2], C Chisholm[3] and JR Swanson[1]



A Quality Improvement Intervention to Decrease Hypothermia in the Delivery Room Using a Checklist

Alexandra Vinci, MD, FAAP†; Shahidul Islam, MPH, PStat®*†; Lyn Quintos-Alegheband, MD*†; Nazeeh Hanna, MD*†; Amrita Nayak, MD*†*

- Location: NYU Winthrop Hospital
- Setting: Level IV, 45 bed NICU with 700 admissions per year
- Population: <32 weeks' gestation (100 born annually)
- Baseline: 50% of infants <32w hypothermic
- Process measures: intervention of a checklist, tracking list deficiencies over time
- Outcomes: Hypothermia main outcome with hyperthermia as balancing measure

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Table 1. Delivery Room Checklist to Prevent Hypothermia

Premature Infants <32 wk GA* Delivery Room Checklist			
Patient Name:		**MR#**	**Date:**
	Before delivery:		
1	NICU charge nurse and respiratory therapy aware of pending delivery/admission	YES	NO
2	OR temperature set at 75°F	YES	NO
3	OR temperature at time of delivery	Temperature:	
4	Infant warmer turned on	YES	NO
5	Warm blankets under radiant warmer	YES	NO
6	Gel pad placed under infant	YES	NO
7	Polyethylene bag on warm blankets	YES	NO
8	Temperature probes plugged into warmer	YES	NO
9	Transport incubator turned on	YES	NO
	After delivery:		
10	Rectal temperature within 30 minutes of birth	Temperature:	

GA = gestational age

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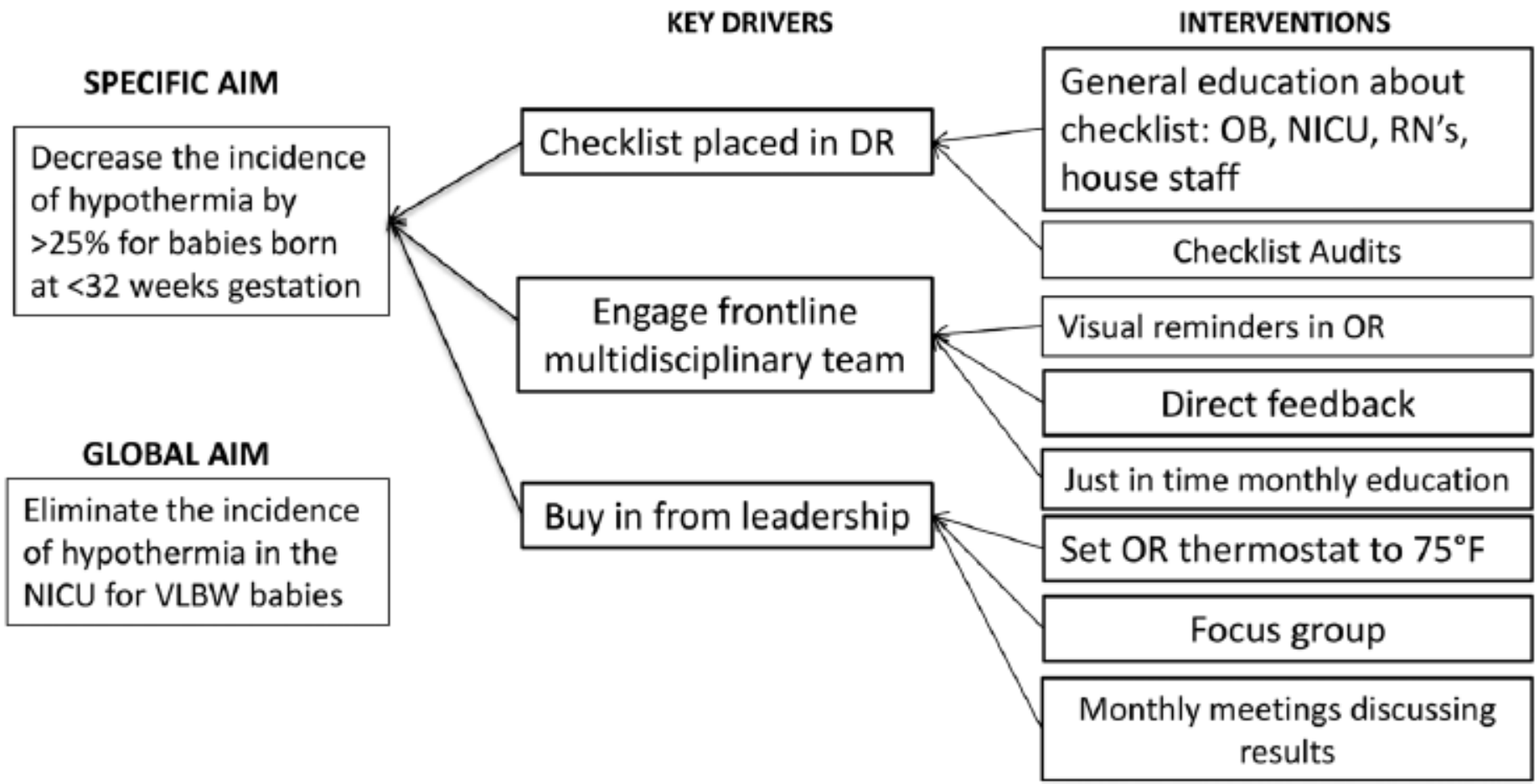

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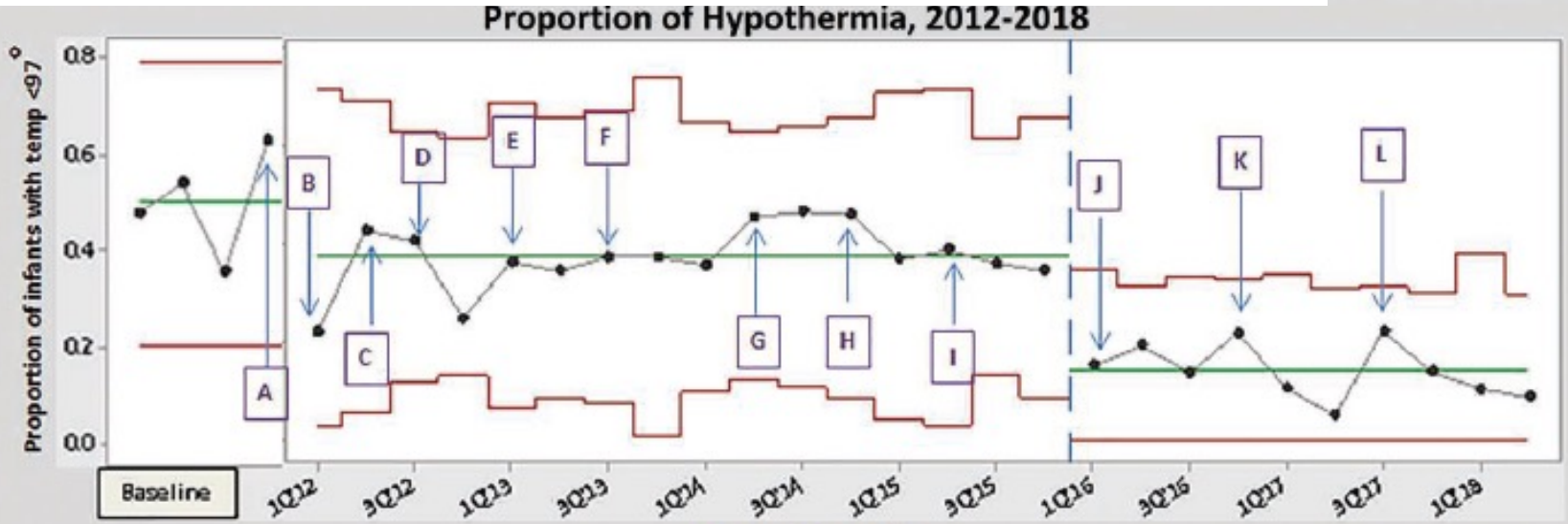

Period	# of Subgroups	Total items	# Defectives	% Defective	P value
Baseline	4	104	52	50	
1st Centerline shift	16	411	154	37.47	<0.001
2nd Centerline shift	10	332	47	14.16	<0.001

Key of Interventions:

A: Education
B: Checklist Roll Out
C: Monthly focus groups
D: Just In Time Coaching
E: Improved Accessibility
F: Data Sharing
G: Reeducation, weekly focus groups
H: Inclusion in Safety Huddles
I: Increased emphasis during mock codes
J: Monthly 'Town Hall'-style meeting
K: "Days Since Last Hypothermic Event"
L: Monthly QI meeting

A multimodal quality improvement approach to promote normothermia in very preterm infants

Aneurin Young[1] | Fameesh Azeez[2] | Santan Pawalu Godad[2] | Preethish Shetty[3] | Alok Sharma[2]

- Location: tertiary NICU in Southern England
- Population: infants born at <30 weeks' gestation
- Phase I: simulation of T-ABC (temperature, airway, breathing, circulation)
- Phase II: role assignment, periodic axillary temperature (at resuscitation, upon NICU arrival, upon transfer to isolette), hypothermia interventions
- Phase III: dedicated member to monitoring temperature

A multimodal quality improvement approach to promote normothermia in very preterm infants

Aneurin Young[1] | Fameesh Azeez[2] | Santan Pawalu Godad[2] | Preethish Shetty[3] |
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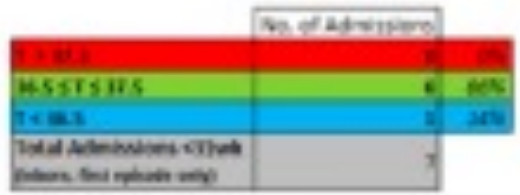
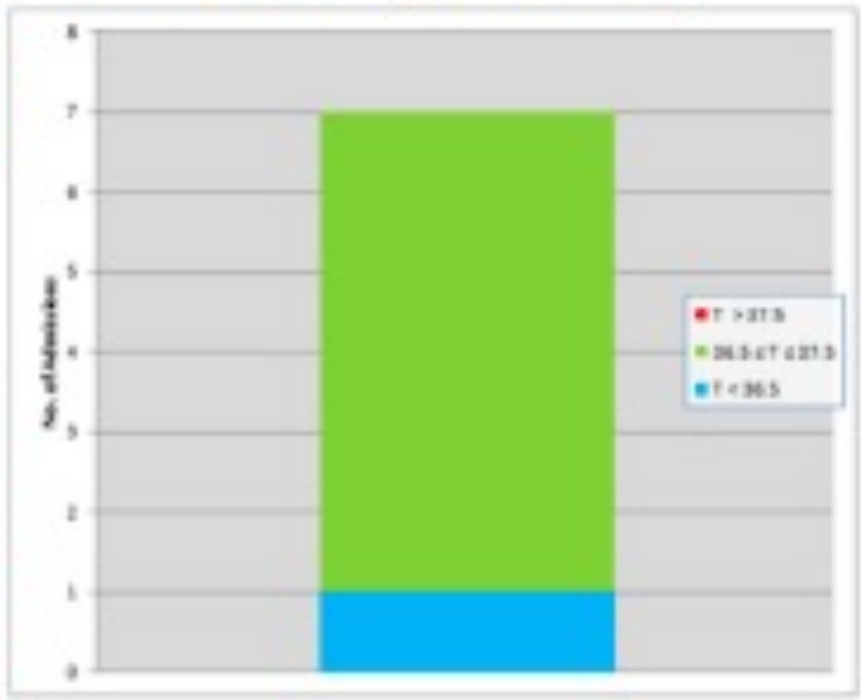
TEMPERATURE ON ADMISSION

Admissions **December 2017** *(<31wk only)*





We are displaying data for temperature on admission every month, to show how we are performing and improving over time.

A multimodal quality improvement approach to promote normothermia in very preterm infants

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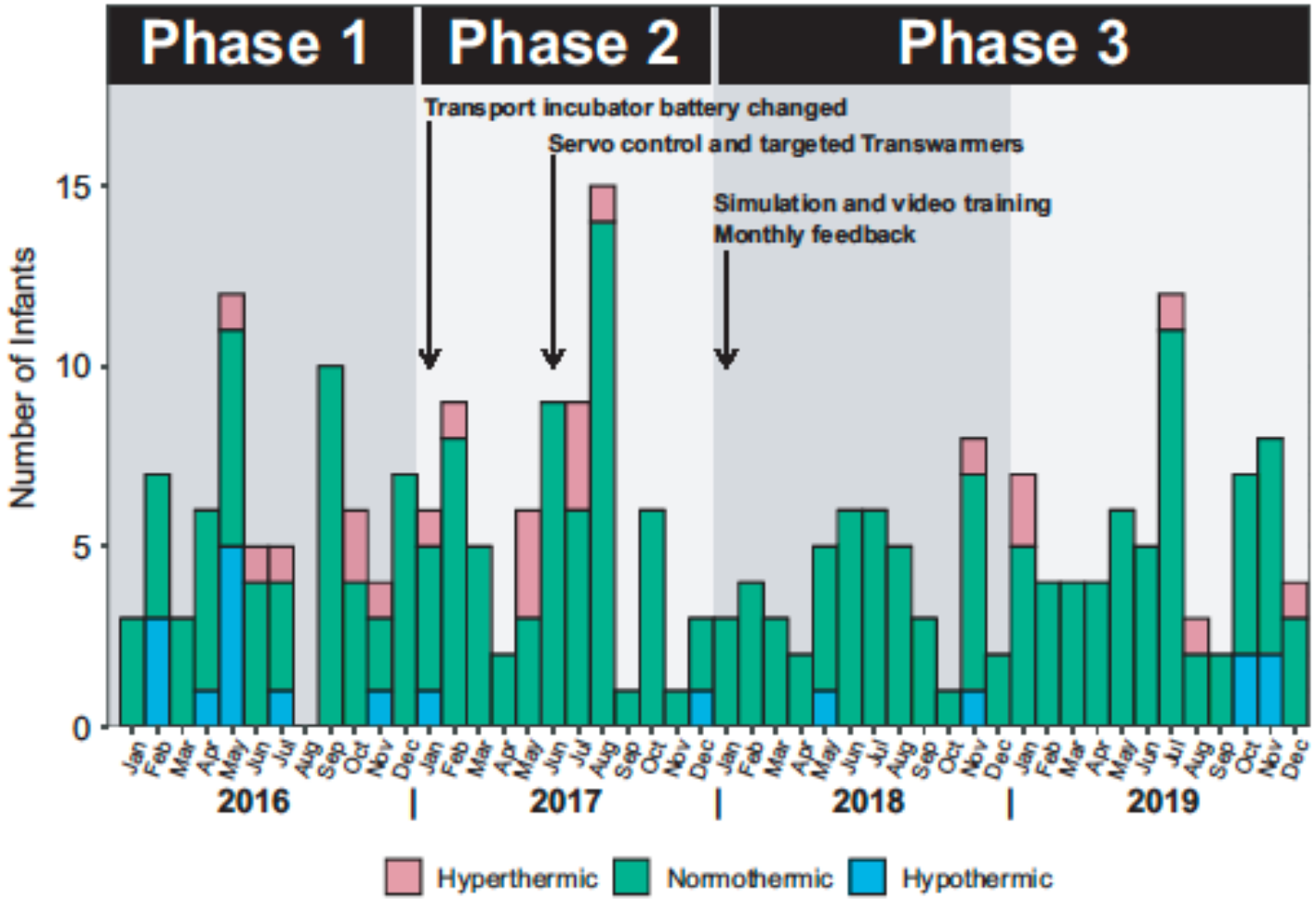


Hypothermia Tableau Visualization

Revert Filters

Hide Filters

Measure Names
All-Hospitals
Your-Hospital

Hospital: No Hospital
Race: (All)
Birth Wt: (All)
Date: (All)
GA: (All)
Levels: (All)
Hospitals: (All)

Navigation Tabs

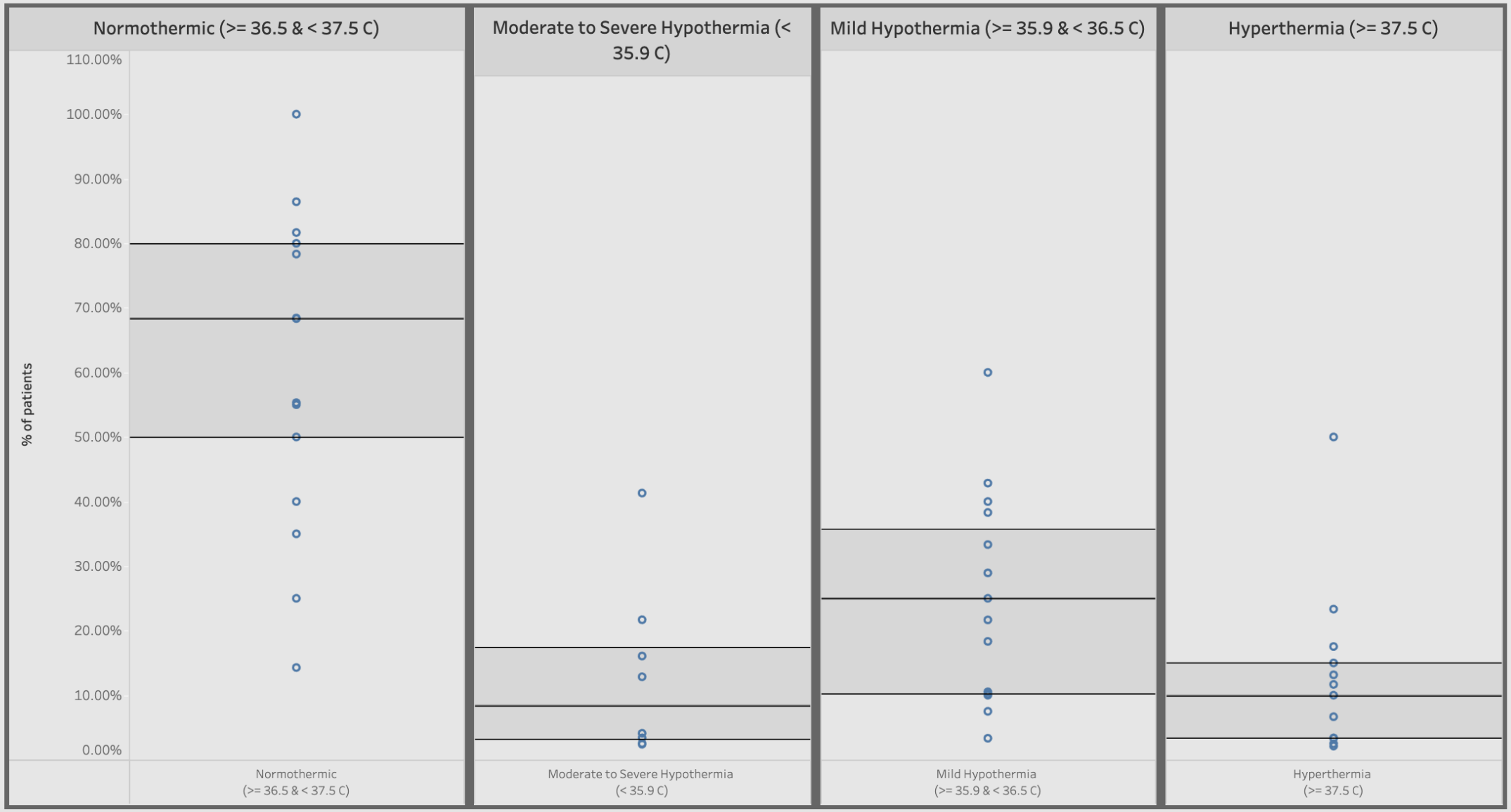
Raw Temp

Control Charts

Race/Ethnicity Data

Main Page

ALABAMA PERINATAL ALPQC QUALITY COLLABORATIVE



Revert Filters

Hide Filters

Measure Names
All-Hospitals
Your-Hospital

Hospital
Race (All)
Birth Wt (All)
Date (All)
GA (All)
Levels (All)
Hospitals (All)

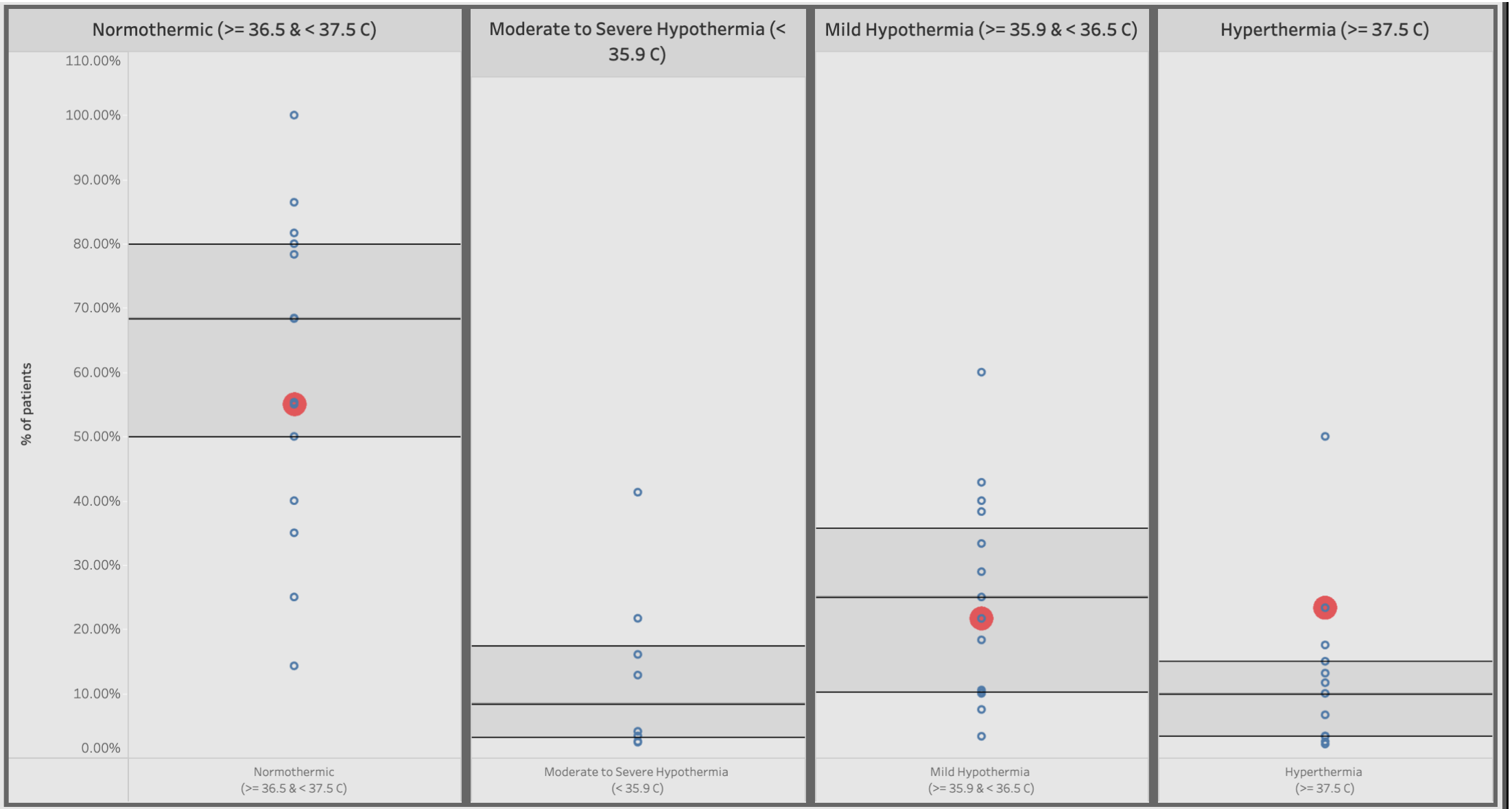
Navigation Tabs

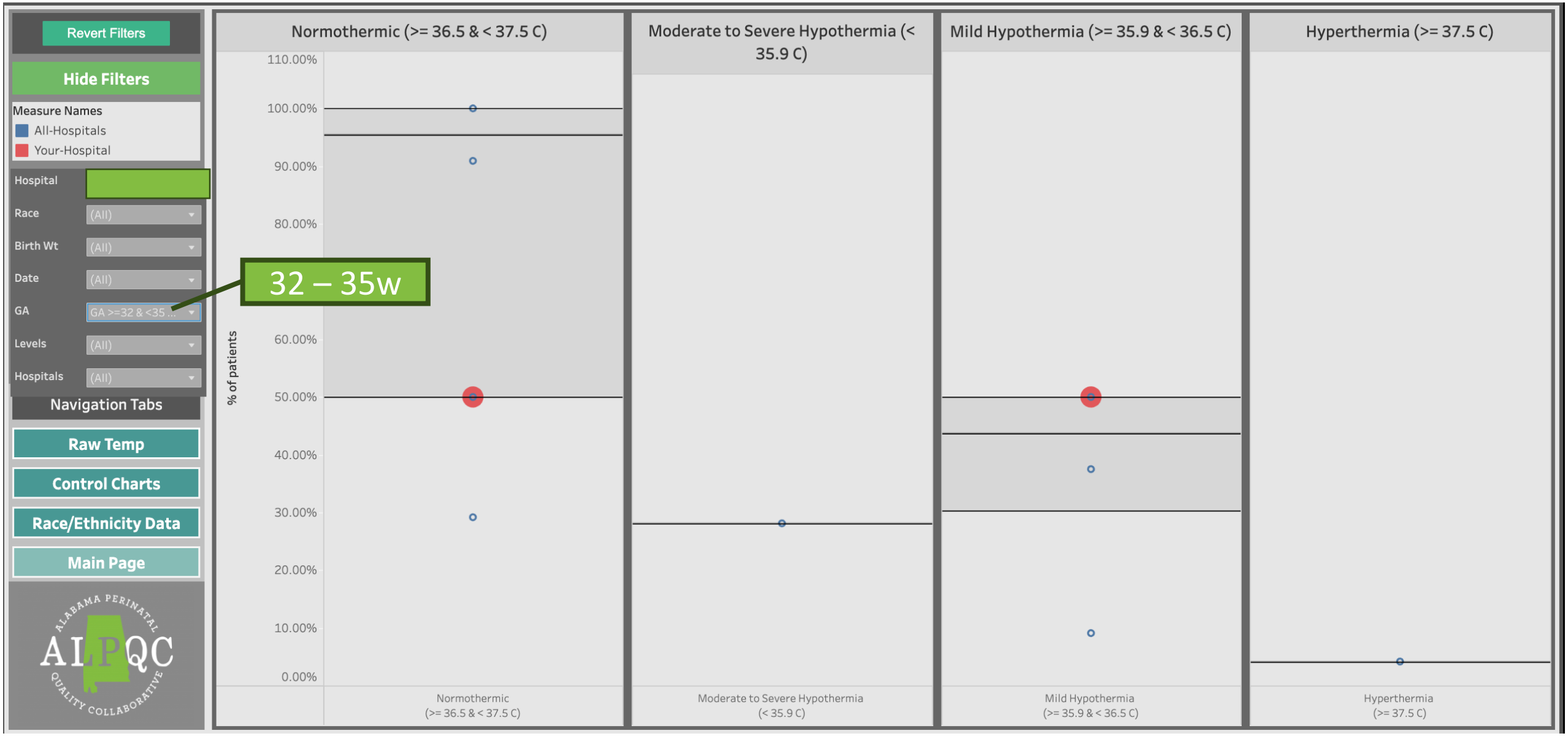
Raw Temp

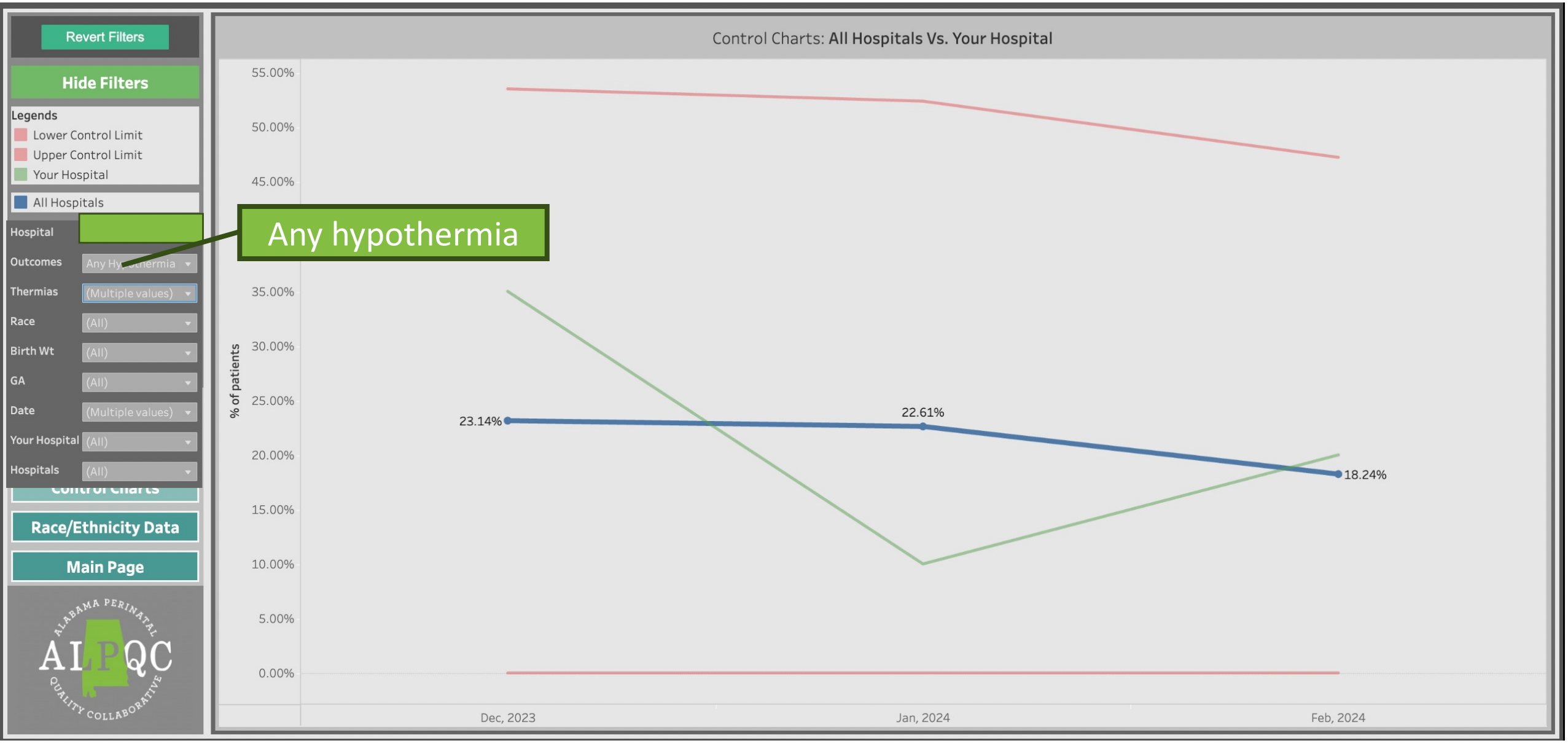
Control Charts

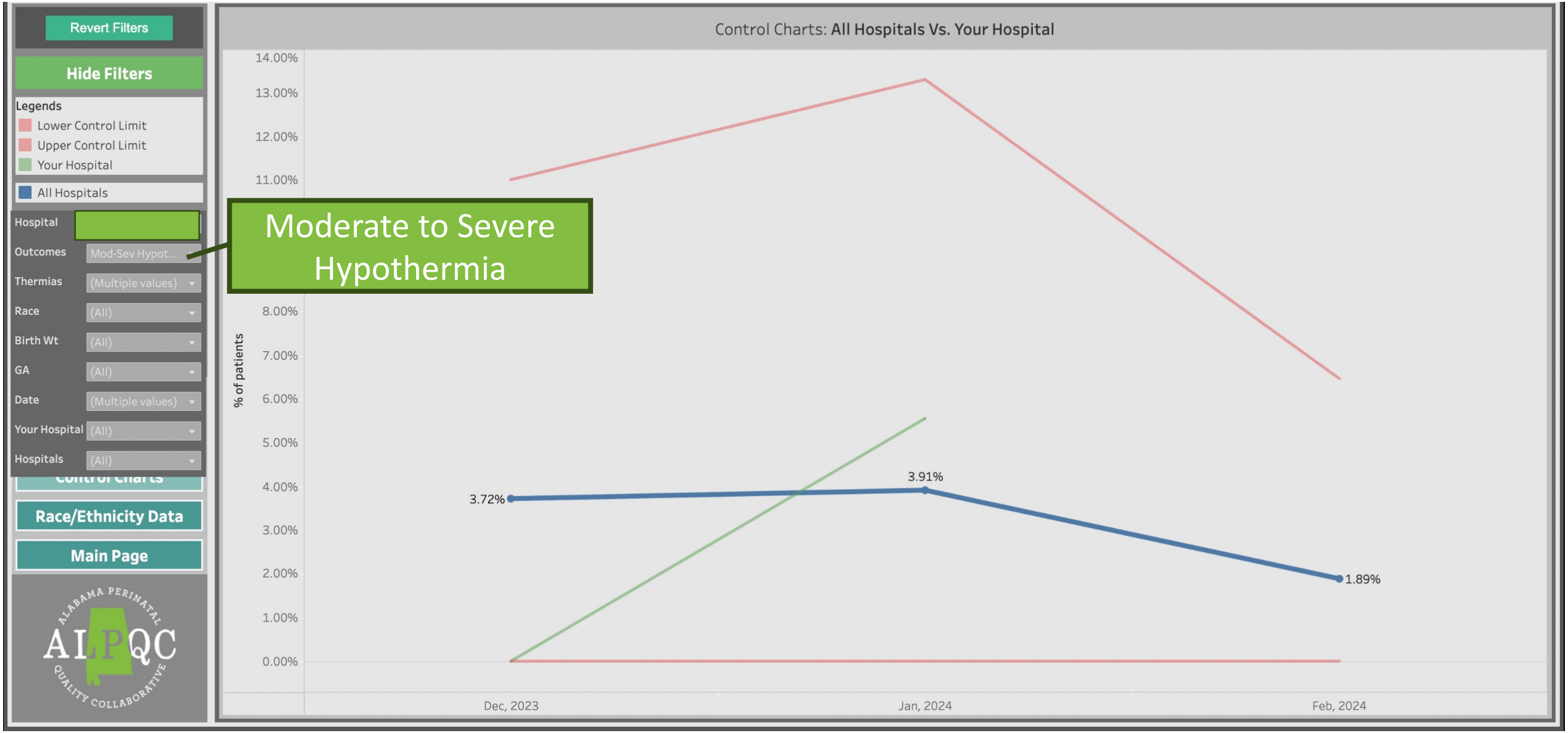
Race/Ethnicity Data

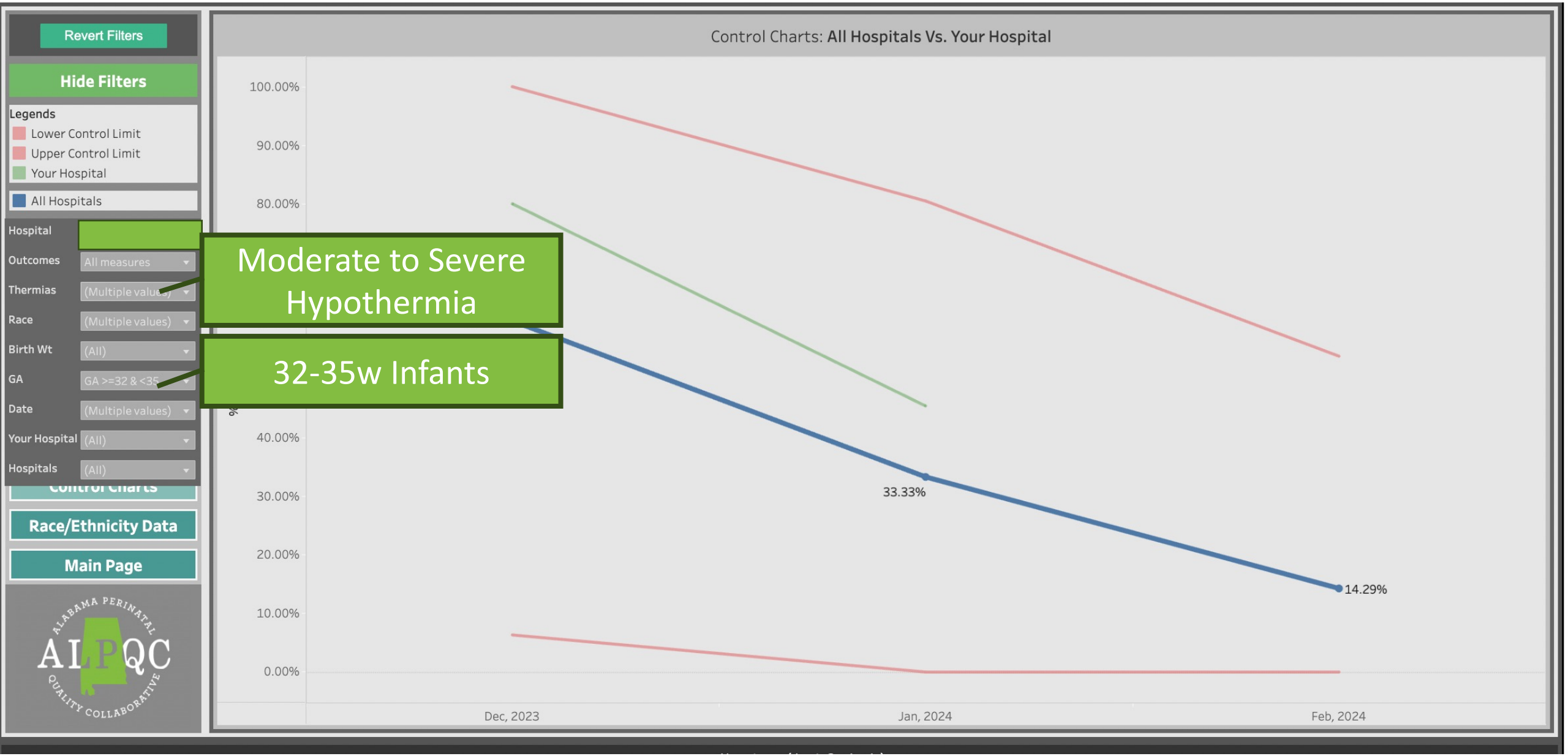
Main Page




Revert Filters
Hide Filters
Measure Names
All-Hospitals
Your-Hospital
Hospital
Race
(All)
Birth Wt
(All)
Date
(All)
GA
GA >=32 & <35 ...
Levels
(All)
Hospitals
(All)
Navigation Tabs
Raw Temp
Control Charts
Race/Ethnicity Data
Main Page
32 – 35w
Normothermic (>= 36.5 & < 37.5 C)
Moderate to Severe Hypothermia (< 35.9 C)
Mild Hypothermia (>= 35.9 & < 36.5 C)
Hyperthermia (>= 37.5 C)
% of patients
110.00%
100.00%
90.00%
80.00%
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
Normothermic
(>= 36.5 & < 37.5 C)
Moderate to Severe Hypothermia
(< 35.9 C)
Mild Hypothermia
(>= 35.9 & < 36.5 C)
Hyperthermia
(>= 37.5 C)


Revert Filters
Hide Filters
Legends
Lower Control Limit
Upper Control Limit
Your Hospital
All Hospitals
Hospital
Outcomes
Thermias
(Multiple values)
Race
(All)
Birth Wt
(All)
GA
(All)
Date
(Multiple values)
Your Hospital
(All)
Hospitals
(All)
Race/Ethnicity Data
Main Page
Control Charts: All Hospitals Vs. Your Hospital
Any hypothermia
55.00%
50.00%
45.00%
35.00%
30.00%
25.00%
20.00%
15.00%
10.00%
5.00%
0.00%
% of patients
23.14%
22.61%
18.24%
Dec, 2023
Jan, 2024
Feb, 2024


Revert Filters
Hide Filters
Legends
Lower Control Limit
Upper Control Limit
Your Hospital
All Hospitals
Hospital
Outcomes
Mod-Sev Hypot...
Thermias
(Multiple values)
Race
(All)
Birth Wt
(All)
GA
(All)
Date
(Multiple values)
Your Hospital
(All)
Hospitals
(All)
Control Charts
Race/Ethnicity Data
Main Page
Moderate to Severe Hypothermia
Control Charts: All Hospitals Vs. Your Hospital
% of patients
14.00%
13.00%
12.00%
11.00%
8.00%
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
3.72%
3.91%
1.89%
Dec, 2023
Jan, 2024
Feb, 2024


Revert Filters
Hide Filters
Legends
Lower Control Limit
Upper Control Limit
Your Hospital
All Hospitals
Hospital
Outcomes
All measures
Thermias
(Multiple values)
Race
(Multiple values)
Birth Wt
(All)
GA
GA >=32 & <35
Date
(Multiple values)
Your Hospital
(All)
Hospitals
(All)
Control Charts
Race/Ethnicity Data
Main Page
ALABAMA PERINATAL
ALPQC
QUALITY COLLABORATIVE
Control Charts: All Hospitals Vs. Your Hospital
100.00%
90.00%
80.00%
40.00%
30.00%
20.00%
10.00%
0.00%
33.33%
14.29%
Dec, 2023
Jan, 2024
Feb, 2024
Moderate to Severe Hypothermia
32-35w Infants

Revert Filters

Show Filters

Thermias Legends
- Normothermic (>= 36.5 ...
- Mild Hypothermia (>= 3...
- Hyperthermia (>= 37.5 C)

Races
- Hispanic,White
- Multi Racial
- Native American
- Unknown

Navigation Tabs

Raw Temp

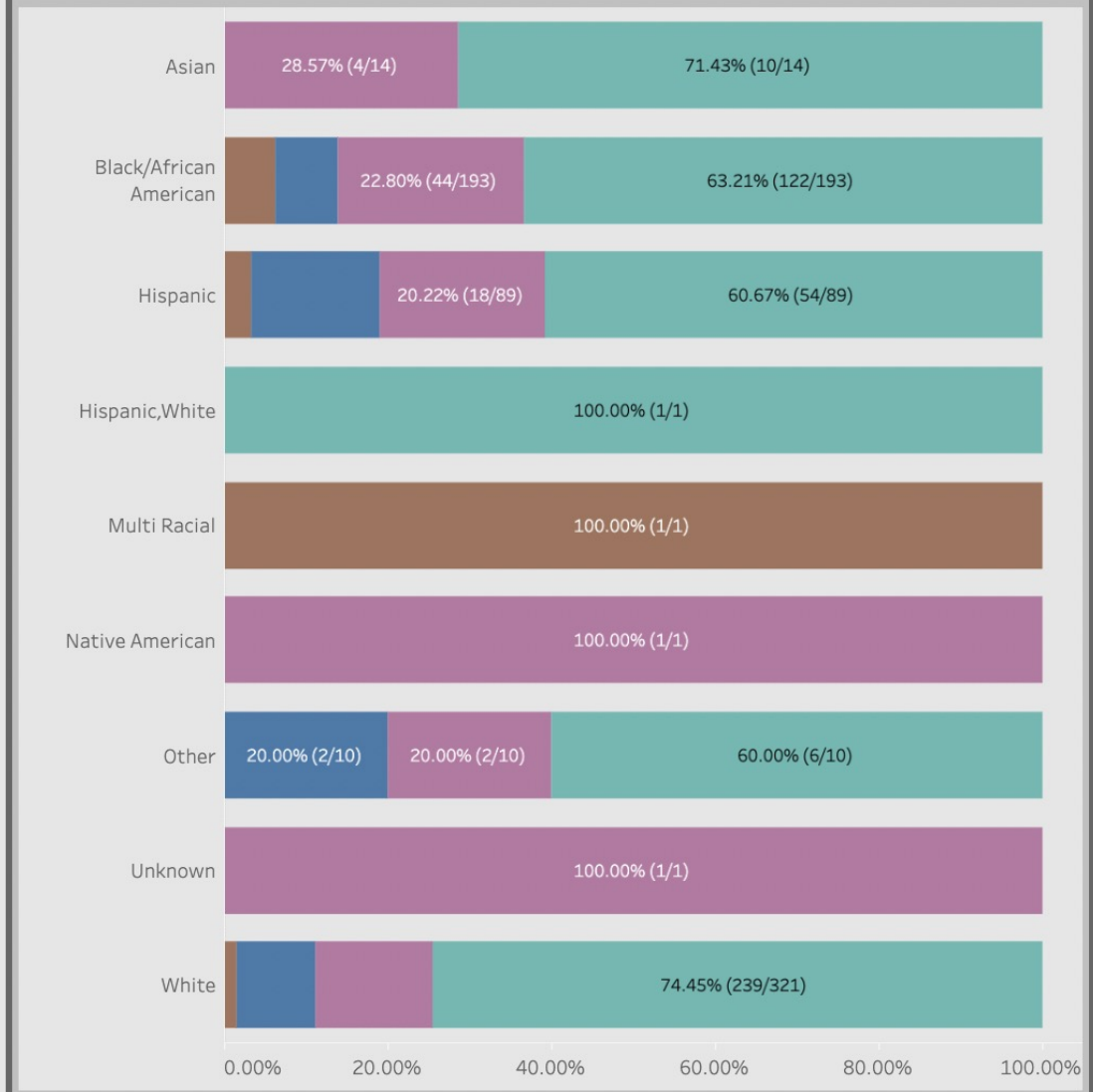
Control Charts

Race/Ethnicity Data

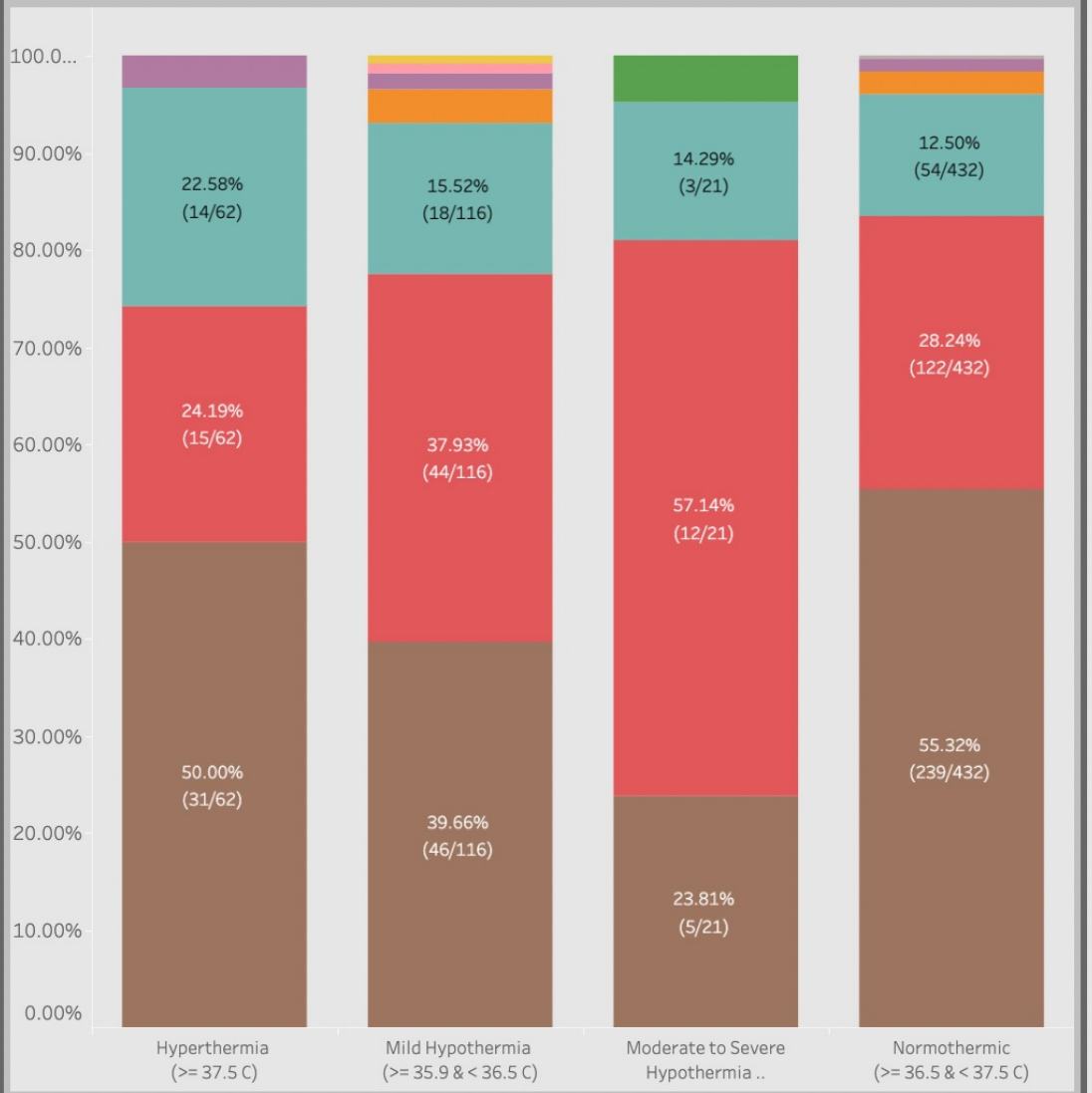
Main Page

ALABAMA PERINATAL ALPQC QUALITY COLLABORATIVE

Race O2 Thermia Counts %



O2 Thermia Race Counts %



Golden Hour Tableau Visualization

Revert Filters

Hide Filters

Legends
- All Hospitals
- Your Hospital

Hospital

Date (All)

Race (All)

Birth Wt (All)

GA (All)

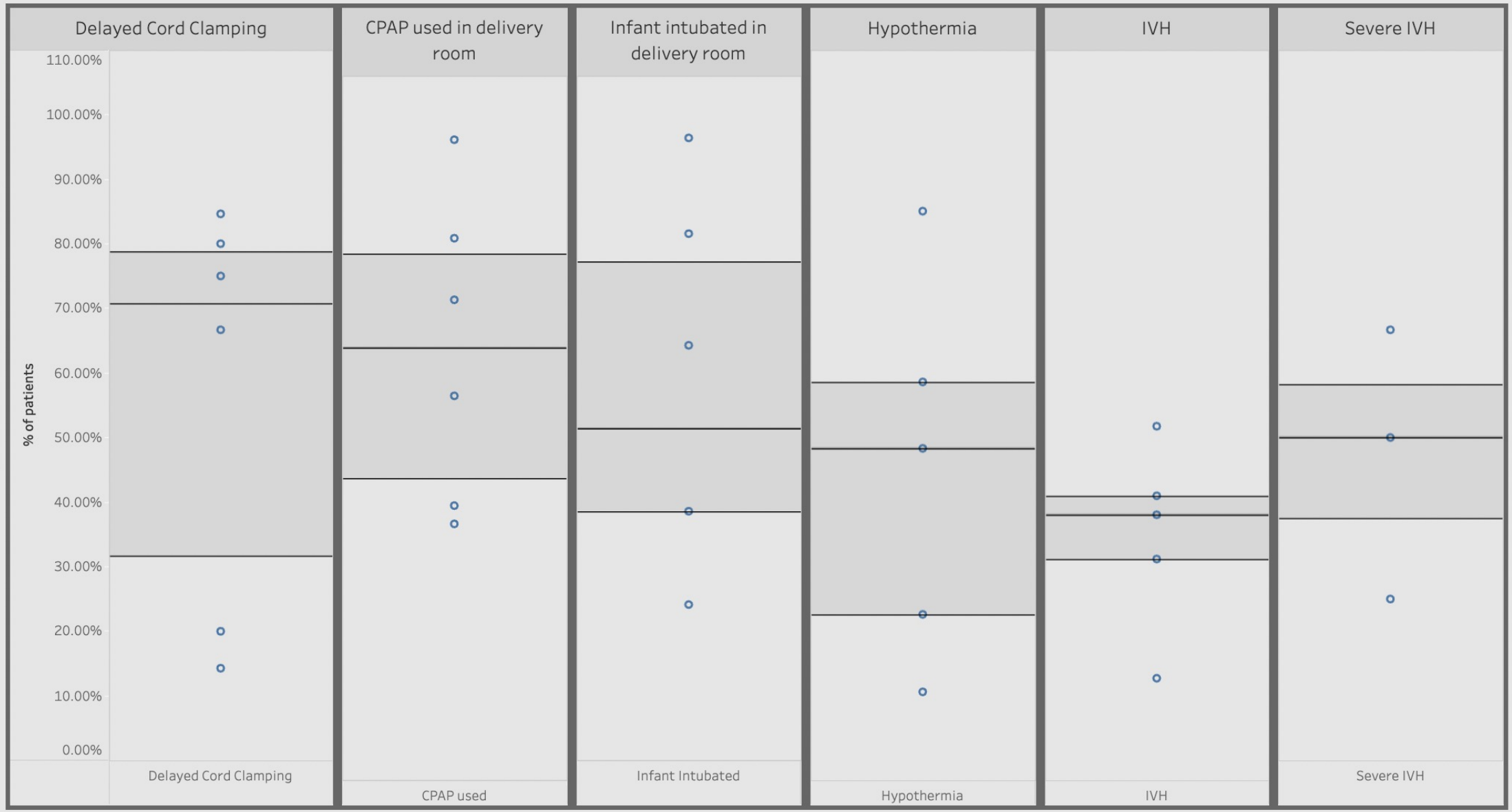
Hospitals (All)

Temp page

Control Charts

Race/Ethnicity Data

Main Page




Revert Filters
Hide Filters
Legends
All Hospitals
Your Hospital
Hospital
Date
(All)
Race
(All)
Birth Wt
(All)
GA
(All)
Hospitals
(All)
Temp page
Control Charts
Race/Ethnicity Data
Main Page
ALPQC
ALABAMA PERINATAL
QUALITY COLLABORATIVE
Delayed Cord Clamping
CPAP used in delivery room
Infant intubated in delivery room
Hypothermia
IVH
Severe IVH
% of patients
110.00%
100.00%
90.00%
80.00%
70.00%
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
Delayed Cord Clamping
CPAP used
Infant Intubated
Hypothermia
IVH
Severe IVH


Revert Filters
Hide Filters
Legends
All Hospitals
Your Hospital
Hospital
Date
(All)
Race
(All)
Birth Wt
(All)
GA
(Multiple values)
Hospitals
(All)
Temp page
Control Charts
Race/Ethnicity Data
Main Page
ALPQC
ALABAMA PERINATAL QUALITY COLLABORATIVE
<29w Infants
Delayed Cord Clamping
CPAP used in delivery room
Infant intubated in delivery room
Hypothermia
IVH
Severe IVH
% of patients
110.00%
100.00%
90.00%
80.00%
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
Delayed Cord Clamping
CPAP used
Infant Intubated
Hypothermia
IVH
Severe IVH

Revert Filters

Hide Filters

Measure Names
All-Hospitals
Your-Hospital

Hospital

Birth Wt (All)

GA (All)

Date (All)

Race (All)

Hospitals (All)

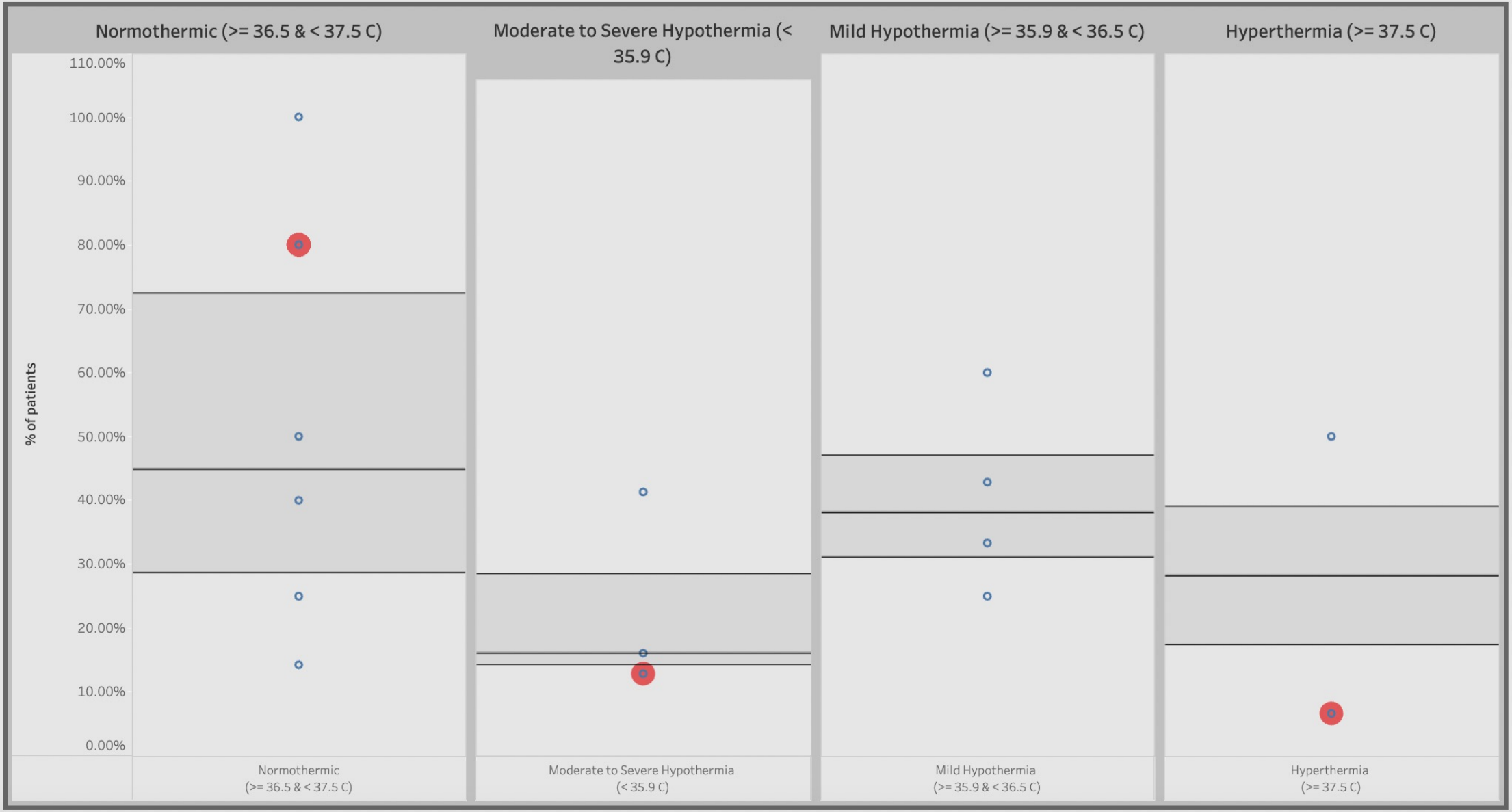
Temp page

Control Charts

Race/Ethnicity Data

Main Page

ALABAMA PERINATAL AL PQC QUALITY COLLABORATIVE



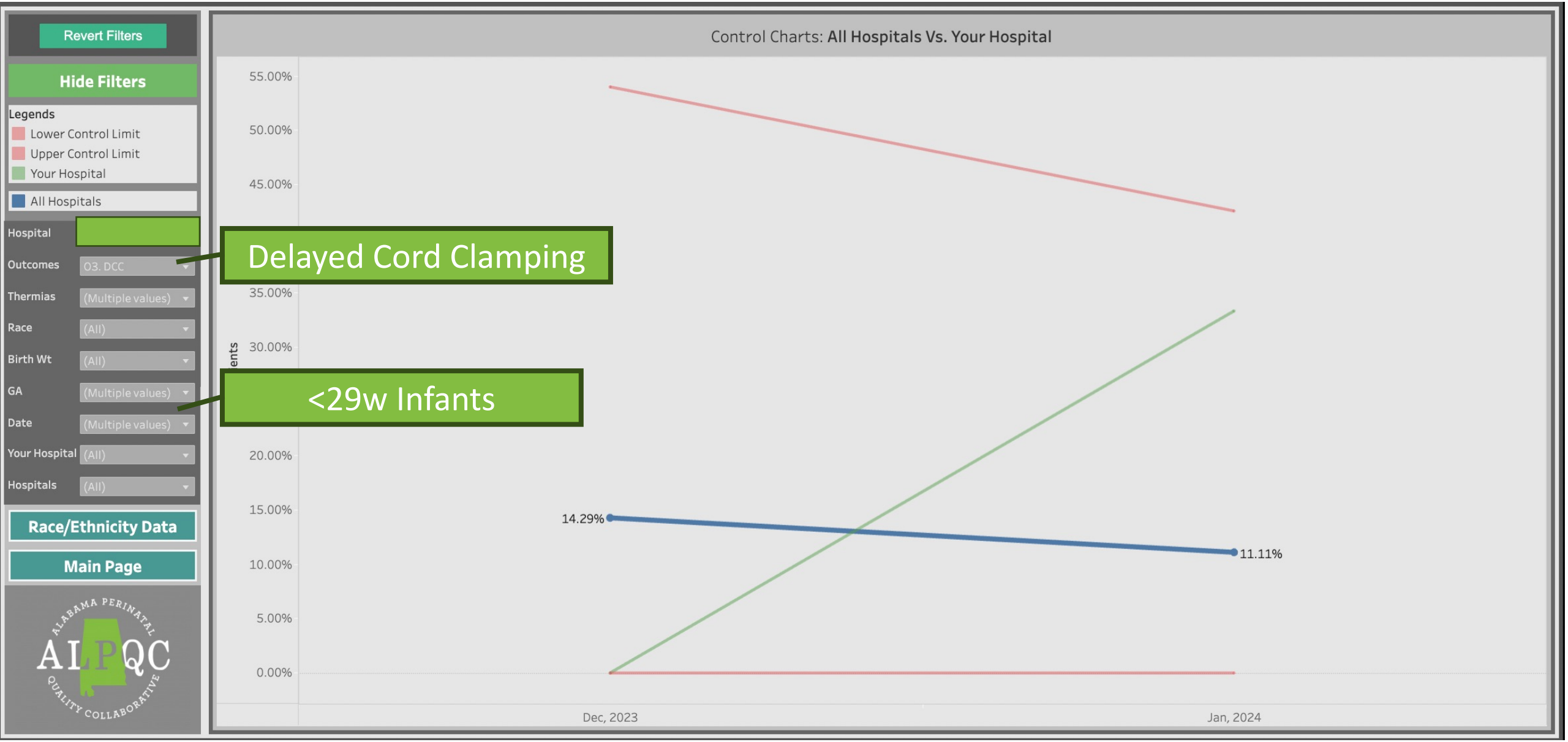

Revert Filters
Hide Filters
Legends
Lower Control Limit
Upper Control Limit
Your Hospital
All Hospitals
Hospital
Outcomes
03. DCC
Thermias
(Multiple values)
Race
(All)
Birth Wt
(All)
GA
(Multiple values)
Date
(Multiple values)
Your Hospital
(All)
Hospitals
(All)
Race/Ethnicity Data
Main Page
ALABAMA PERINATAL
ALPQC
QUALITY COLLABORATIVE
Control Charts: All Hospitals Vs. Your Hospital
55.00%
50.00%
45.00%
35.00%
30.00%
20.00%
15.00%
10.00%
5.00%
0.00%
14.29%
11.11%
Dec, 2023
Jan, 2024
Delayed Cord Clamping
<29w Infants

Tableau Access

- Once the Tableau dashboard is active:
  - Each hospital team will receive an email asking them to set up an Xias account ID
  - This ID will allow you access to your specific hospital's data dashboard

- The Tableau visualizations for each hospital will be discussed in the monthly 1:1 calls to address findings and observations unique to your hospital

Q&A

Please feel free to **unmute** and ask questions

You may also enter comments or questions in the “chat” box

Reminders

- Remember to register for monthly Action Period Calls via Zoom
  - Action Period calls will take place on the 4th Wednesday of every month at 12pm

- Next NOWS Sustainability reporting will be due April 30th
  - Reporting period: Jan-Mar 2024

- Monthly data for March will be also be due April 30th for NHP
  - Link to survey to be sent on April 15th

Stay Connected!

Website:
http://www.alpqc.org

Email:
info@alpqc.org

Twitter (X): @alpqc
https://twitter.com/alpqc

Next Meeting

Wednesday, April 24th at 12pm

Thank you!

Thank you for all your hard work!!

We will see you next month!