



# Addressing Disparities in Perinatal Care Delivery

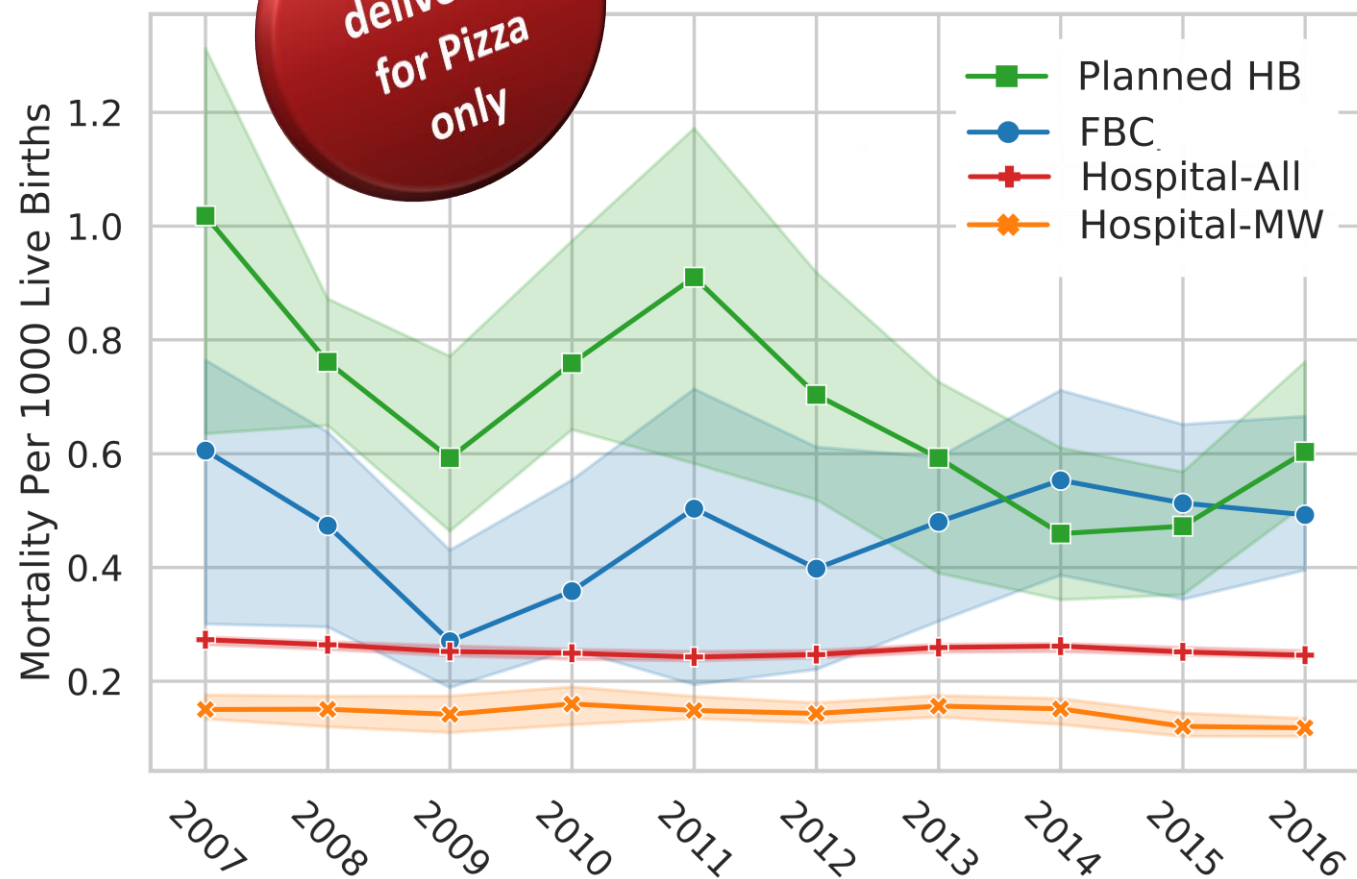
Jochen Profit, MD, MPH

Associate Professor of Pediatrics

Chief Quality Officer, California Perinatal Quality Care Collaborative

# L. Joseph Butterfield, MD

Home  
delivery is  
for Pizza  
only



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## Disclosure

Dr. Profit's equity research has been supported by:

- NICHD R01 - HD083368 (PI: J Profit)
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Dr. Profit serves as an unpaid Advisory Board Member of the NEC Society





# CPQCC

## QUALITY IMPROVEMENT IN ACTION

## By the numbers



17K

NICU  
ADMITS

CPQCC



138

MEMBER  
HOSPITALS



7K

ACUTE  
NEONATAL  
TRANSPORTS

CPeTS



9K

HIGH-RISK  
INFANTS  
REGISTERED

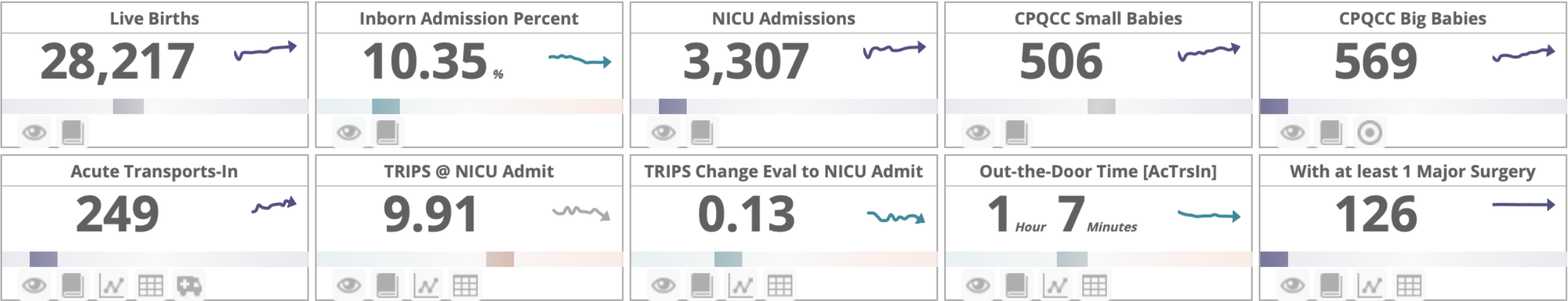
HRIF



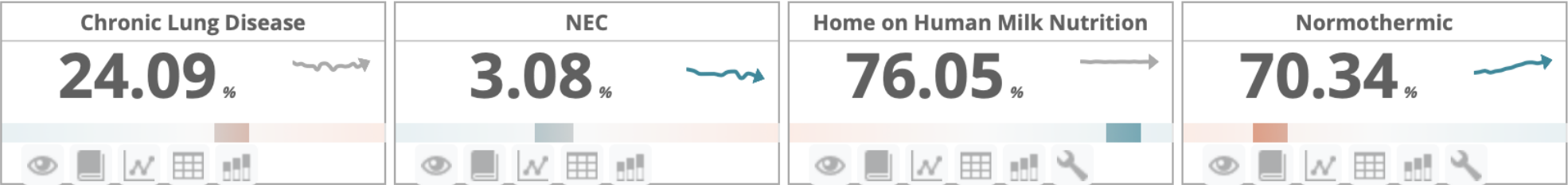
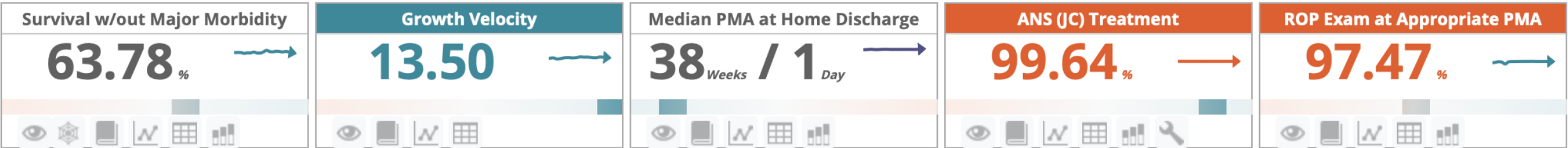
500K

BIRTHS

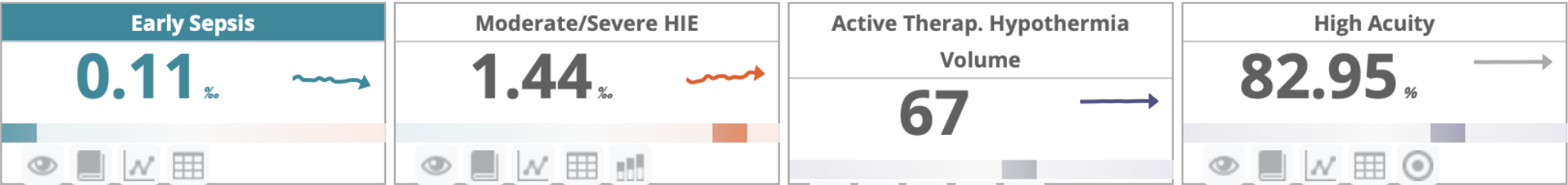
CMQCC



VON Small Babies



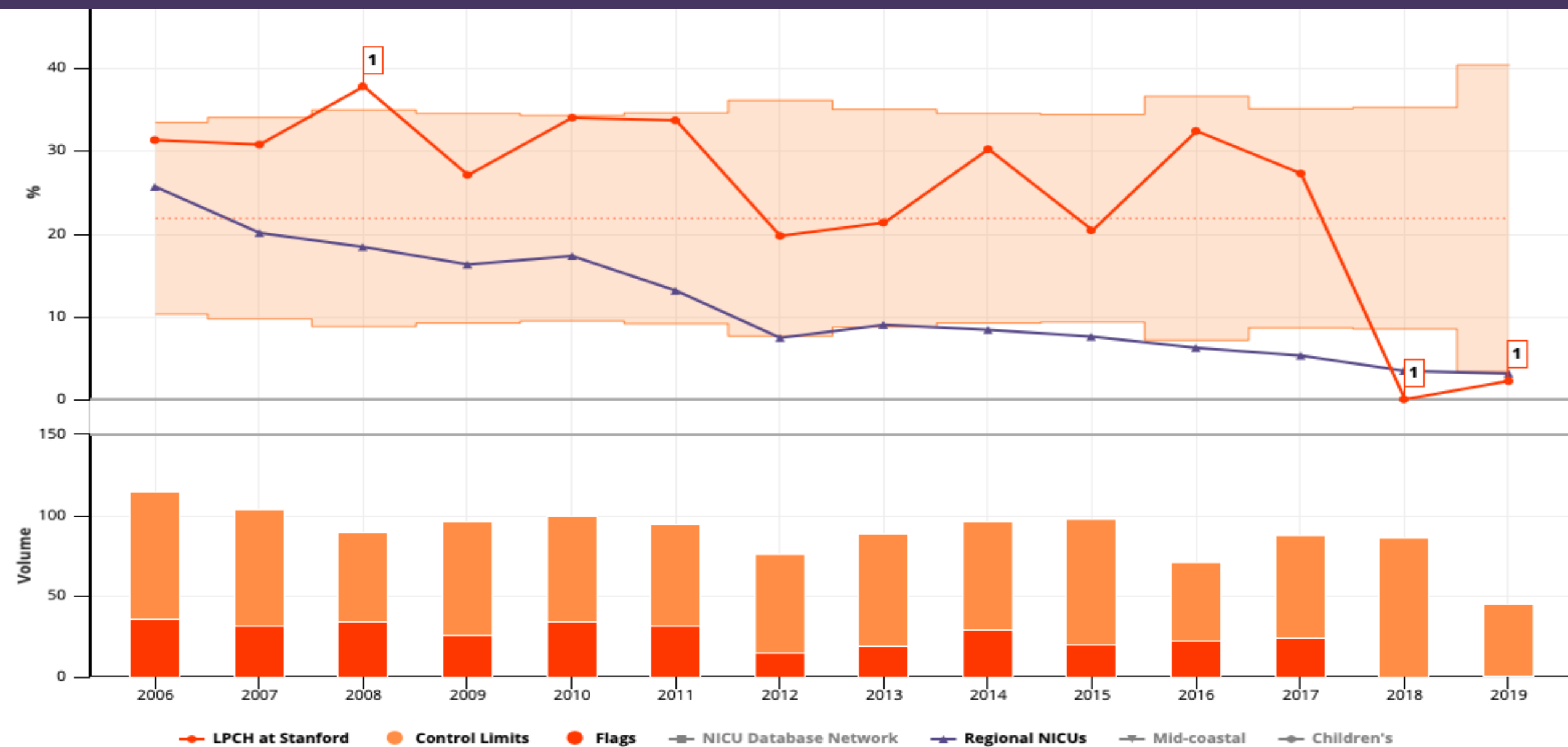
Big Babies



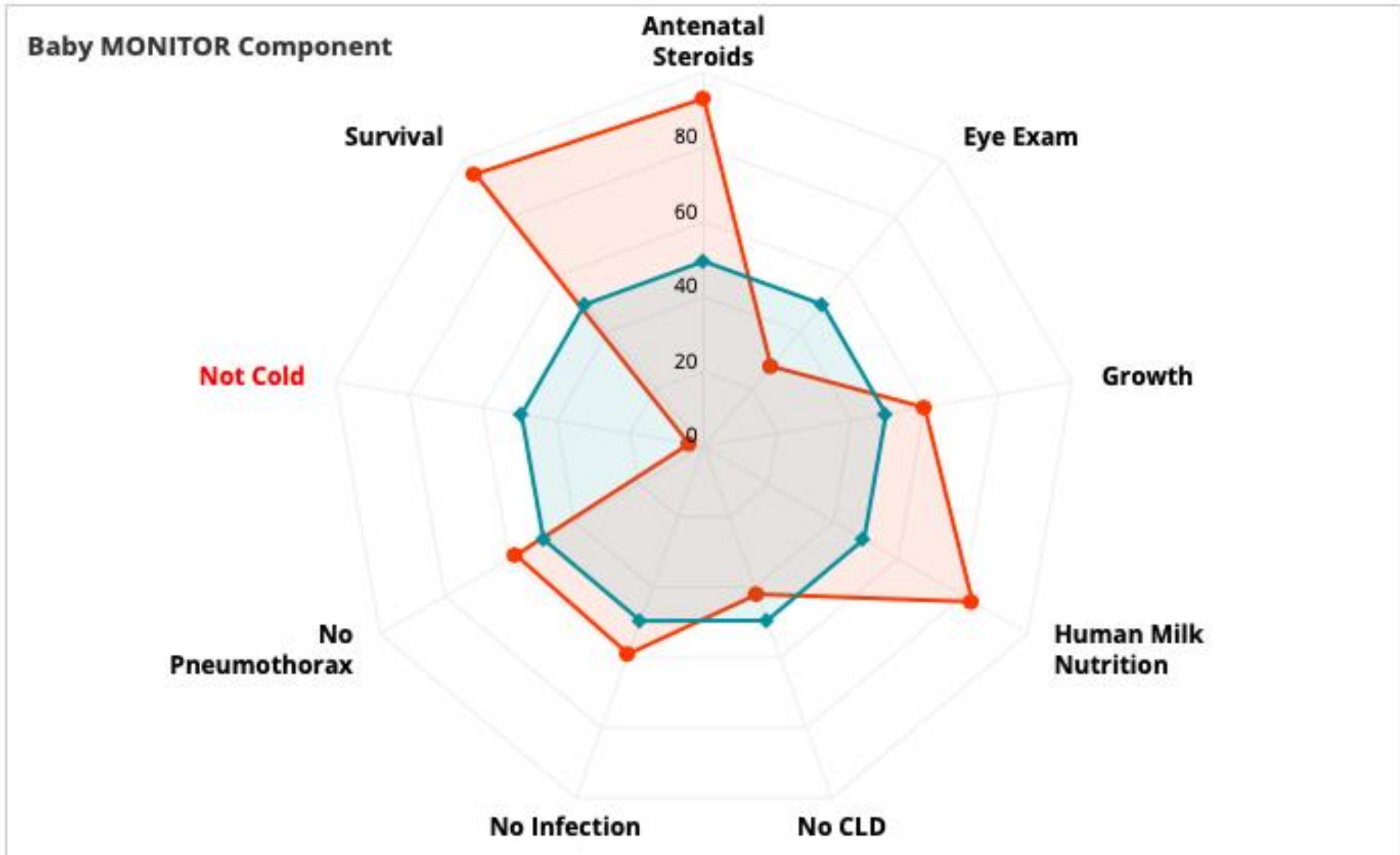
Infection Control



# CPQCC SPC CHARTS



Demo NICU: Composite Score: 69



**CPQCC BABY-MONITOR**



# By The Numbers

## NICU level improvements between 2008-2017

Member hospitals  
reduced mortality  
rates for VLBW  
infants by

15%

An additional

8.5%

of babies were discharged  
without major morbidities  
like severe ROP, NEC, CLD,  
and severe IVH

And the rate of  
Necrotizing  
enterocolitis (NEC)  
decreased by

45%

# By The Numbers

## NICU level improvements between 2008-2017

Member hospitals  
reduced severe  
intraventricular  
hemorrhage by

19%

There were

36%

fewer cases of severe retinopathy  
of prematurity (ROP) or ROP  
surgery

And the rates of  
nosocomial infection  
declined by

44%

Lee, Liu, Profit, Hintz, Gould.  
J Perinatol. 2020 Jul;146(1):e20193865

# Best Hospitals for Neonatology

Fifty pediatric centers were ranked for care of fragile newborns. Taking breast milk at discharge, the hospital's level of experience taking care of newborns, infection rates in the NICU, availability of ECMO for fragile heart-lung patients, advanced technologies and family support services accounted for most of each hospital's score.

HOW WE RANK AND RATE HOSPITALS »



#2 – Children's Hospital Los Angeles

#3 – Lucile Packard Children's Hospital Stanford

#4 – University of California San Francisco

#5 – Rady Children's San Diego



# Are there Disparities in Perinatal Care?





# She Was Pregnant With Twins During Covid. Why Did Only One Survive?

Why being Black and giving birth in New York during the pandemic is so dangerous.



*Delivery people are among the essential workers who must expose themselves and their families to the virus every day. Photograph by Matt Rouken / AP / Shutterstock*



## For Latinos and Covid-19, Doctors Are Seeing an 'Alarming' Disparity

The outsized infection rate among Hispanics in some states could hobble efforts to quash the spread of Covid-19, prompting states like Oregon to step up testing and take emergency measures.



St

California perinatal quality care collaborative

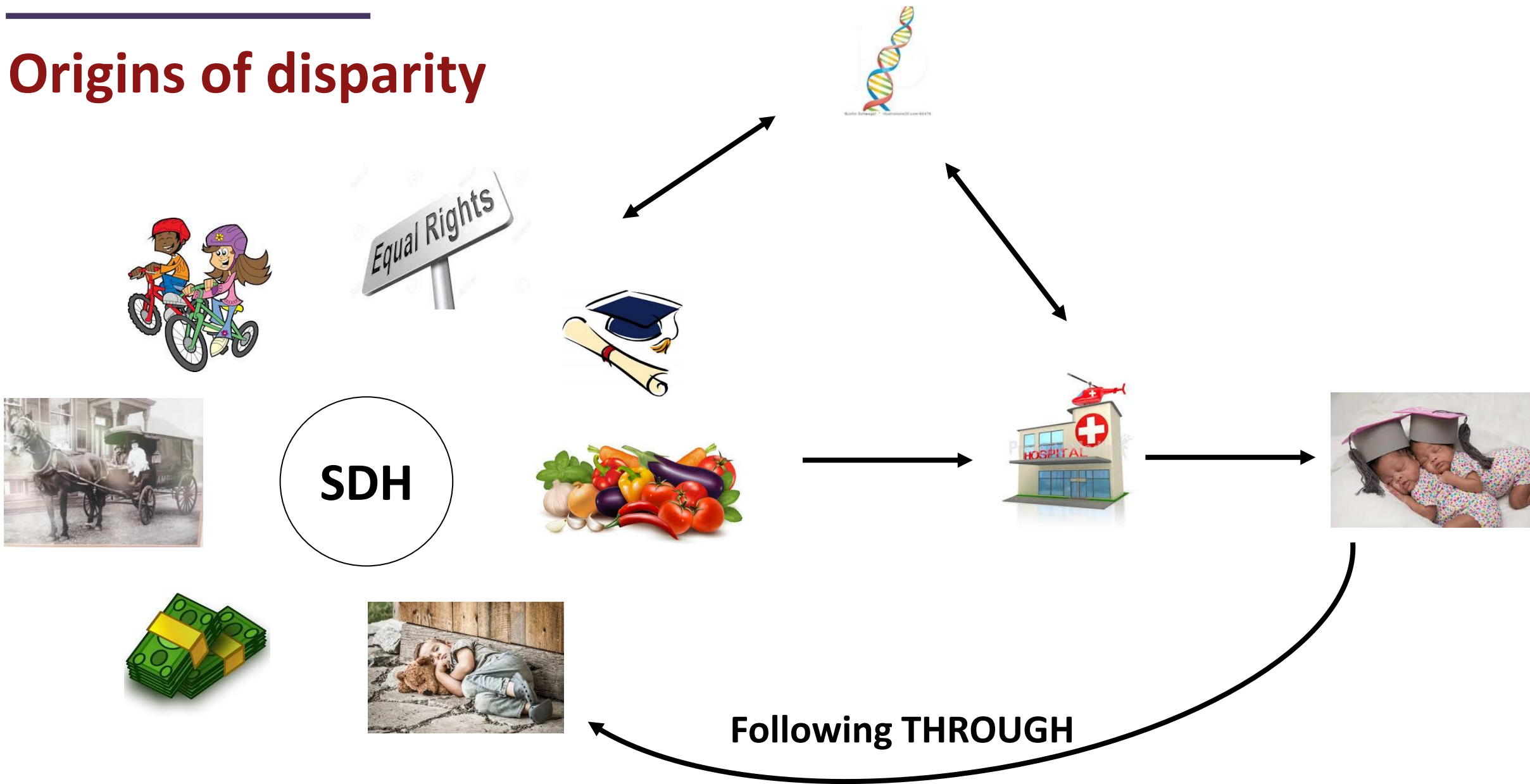
CPQCC



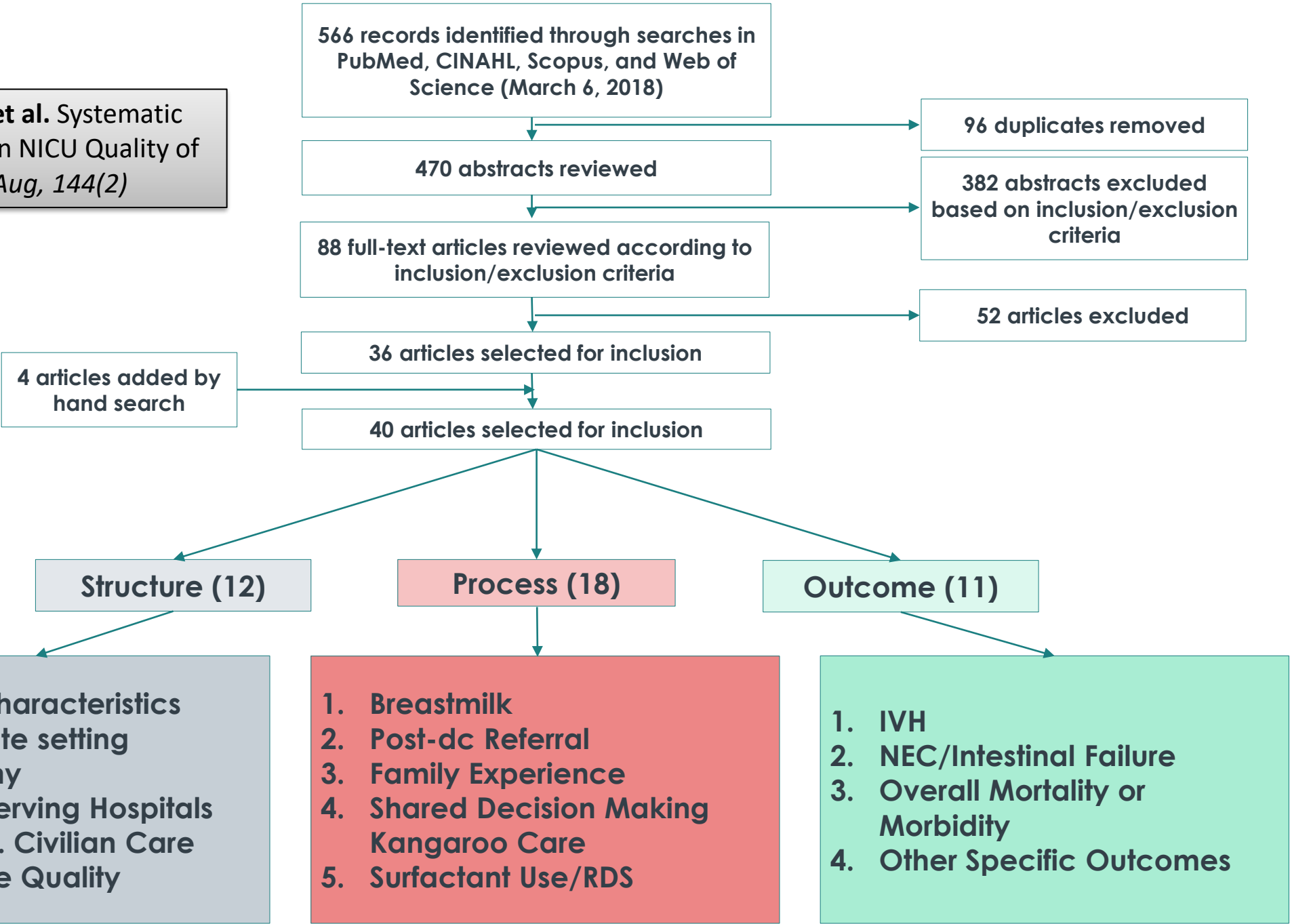
# Context matters – always exposed to bias



# Origins of disparity



**Sigurdson K, Profit J, et al. Systematic Review of Disparities in NICU Quality of Care. *Pediatrics* 2019 Aug, 144(2)**





# What are the mechanisms for disparities in NICU Care?

# Mechanisms for Disparity

Minority mothers and neonates can have worse outcomes than whites because

1. Receive care from facilities that treat patients with poor quality of care (*BETWEEN*),
2. Receive worse quality of care than white mothers in the same facility (*WITHIN*)

Opinion

EDITORIAL

## Racial Segregation and Inequality of Care in Neonatal Intensive Care Units Is Unacceptable

Elizabeth A. Howell, MD, MPP; Paul L. Hebert, PhD; Jennifer Zeitlin, DSc, MA

Despite significant improvements in the survival of very preterm newborns in neonatal intensive care units (NICUs) over the last decade, significant racial and ethnic disparities exist for very preterm infants.<sup>1-3</sup> While these disparities are rooted in a complex web of factors, a growing body of evidence has documented the role of quality of care in creating disparities. Black and Hispanic very preterm infants are more likely to be born in hospitals with worse outcomes than white infants after adjustment for risk factors, and differences in hospital of birth explain a significant proportion of the black-white and Hispanic-white disparities for these vulnerable infants.<sup>2</sup> Additional research has documented that racial and ethnic disparities in quality exist between and within NICUs for very low-birth-weight infants.<sup>4</sup>

In this issue of *JAMA Pediatrics*, Horbar et al<sup>5</sup> explore the extent of segregation and inequality for very low-birth-weight and very preterm infants in NICUs across the United States. They developed indices at the hospital level to measure segregation (ie, uneven distribution of racial and ethnic groups across NICUs) and inequality (ie, concentration of racial or ethnic groups in lower-quality NICUs). Using data from the Vermont Oxford Network and a cohort of more than 117 000 infants born at 401 g to 1500 g or 22 to 29 weeks' gestation from 2014 to 2016, they measured segregation and inequality at the hospital level for black, Hispanic, and Asian infants relative to white infants. They found significant segregation across NICUs in the United States for all 3 racial and ethnic groups and regional variation in quality of care. Compared with white infants, black infants received care at lower-quality NICUs; Asian and Hispanic infants received care at higher-quality NICUs. Region of residence explained differences for Hispanic but not Asian or black infants.

This article has a number of strengths in relation to previous studies. First, Horbar et al<sup>5</sup> used a comprehensive measure of quality, the composite Baby-MONITOR (Measure of Neonatal Intensive Care Outcomes Research) score, rather than solely relying on risk-adjusted mortality or morbidity to assess hospital performance. The Baby-MONITOR score includes 9 infant-level process and outcome measures (eg, antenatal steroid exposure, hypothermia on admission, health care associated infection, and mortality) that have been used to measure quality in California NICUs.<sup>4,6</sup> Much of the previous literature on the contribution of quality of care to neonatal disparities has relied on measures of risk-adjusted neonatal morbidity and mortality ascertained through the use of administrative data. While morbidity and mortality are direct measures of health and of most importance to families, they are indirect measures of quality, and comparisons between hospitals are more strongly reliant on the ability to carry out risk adjustment than process measures. Furthermore, they do not identify specific areas that can be targeted in the NICU to improve outcomes. While the use of administrative data, such as state discharge abstract data linked with birth certificate data, allow for population-based estimates, these administrative data lack many of the data elements necessary to measure quality more directly (eg, receipt of medications, vital signs, and growth).

Another strength is the use of a national data set that includes nearly 90% of very low-birth-weight and very preterm infants born annually in the United States, making it possible to confirm that previous findings from specific regions apply more broadly to the US population. Horbar et al<sup>5</sup> also propose an interesting index for inequality. In our previous research, we ranked hospitals by risk-adjusted morbidity and mortality and examined where black and Hispanic very preterm infants were born.<sup>2</sup> In this article, Horbar et al<sup>5</sup> rank NICUs by a direct measure of quality and examine the proportion of white infants in those NICUs. Their index of inequality has the potential to be used in future research investigating disparities. Future research would benefit from more granular data on race and ethnicity to measure disparities in care for specific subgroups of black, Hispanic, and Asian infants.

Patient-level quantitative measures of quality, such as those used in the study by Horbar et al,<sup>5</sup> are critical to solving disparities in the NICU because these measures have the potential to illuminate the pathways by which racial disparities in outcomes are realized. Minority mothers and their neonates can have worse outcomes than white mothers because (1) they receive care from facilities that treat all mothers with poor quality of care, (2) they receive worse quality of care than white mothers in the same facility, or (3) they have health and social risks that are beyond the control of the hospital.<sup>7</sup> Without patient-level measures of quality, we cannot distinguish the effects of the latter 2 pathways and therefore cannot say whether the solution lies within the hospital or not. Furthermore, this composite measure builds on previous work to identify evidence-based interventions in neonatology and illustrates the health impact of failure to implement them in current practice. This approach offers an opportunity for future research to identify which components of care contribute most to disparities. Although each component is weighted equally in the score, the authors point out that changing these weights would likely affect estimates of inequalities.

jmapediatrics.com

JAMA Pediatrics Published online March 25, 2019

E1

Howell E, et al. *JAMA Pediatr* 2019

# Disparities between hospitals – Structural racism

## Neonatal mortality by hospital in NYC

JAMA Pediatrics | Original Investigation

### Differences in Morbidity and Mortality Rates in Black, White, and Hispanic Very Preterm Infants Among New York City Hospitals

Elizabeth A. Howell, MD, MPP; Teresa Janevic, PhD, MPH; Paul L. Hebert, PhD; Natalia N. Egorova, PhD, MPH; Amy Balbierz, MPH; Jennifer Zeitlin, DSc, MA

**IMPORTANCE** Substantial quality improvements in neonatal care have occurred over the past decade yet racial and ethnic disparities in morbidity and mortality persist. We examined whether disparate patterns of care by race and ethnicity explain these disparities in outcomes.

**OBJECTIVES** To examine differences in neonatal morbidity and mortality among non-Hispanic black (black), Hispanic, and non-Hispanic white (white) very preterm infants and to determine whether these differences are explained by birth hospital.

**DESIGN, SETTING, AND PARTICIPANTS** Population-based study of nonanomalous infants born between 24 and 31 complete weeks of gestation in New York City hospitals using linked 2010 to 2014 New York City data sets. Mixed-effects logistic regression with a random intercept for hospital was used to generate risk-adjusted neonatal morbidity and mortality rates for infants in each hospital. Hospitals were ranked using the distribution of black, Hispanic, and white very preterm infants. The statistical analysis was performed in 2017.

**EXPOSURE** Race/ethnicity.

**MAIN OUTCOMES AND MEASURES** Composite of mortality or severe neonatal morbidity (bronchopulmonary dysplasia, retinopathy of prematurity stage 3 or greater, or intraventricular hemorrhage grade 3 or greater).

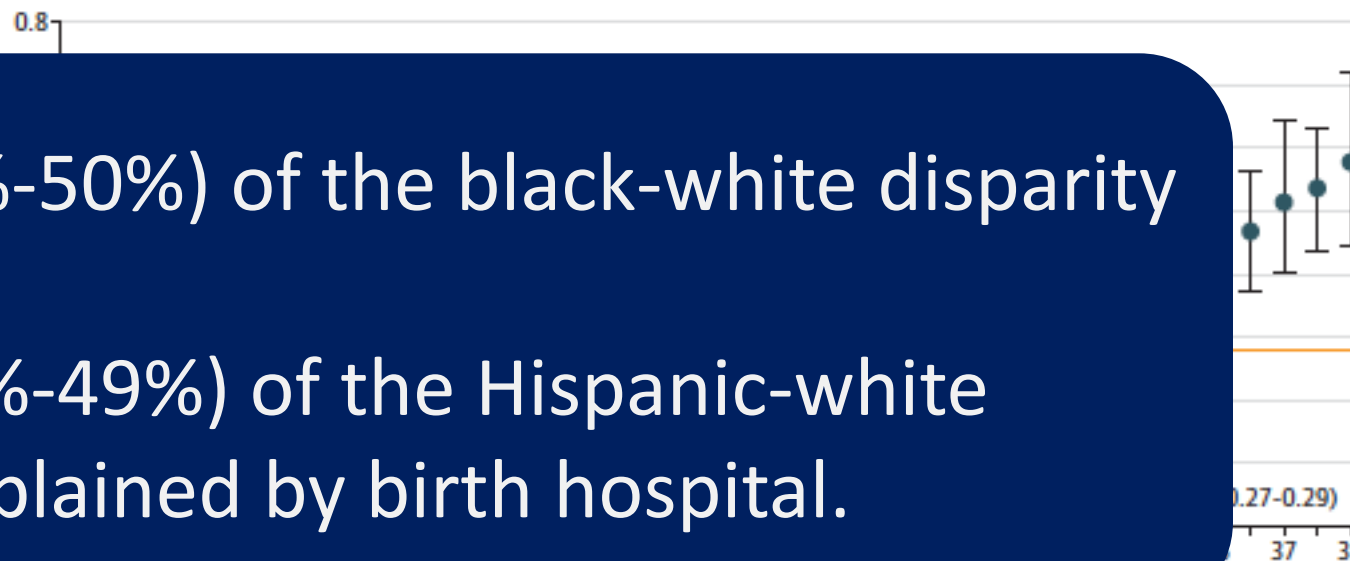
**RESULTS** Among 7177 very preterm births (VPTBs), mortality (28%) and was higher among black (893 [32.2%]) and white (22.5%) VPTBs (2-tailed  $P < .001$ ). The risk-standardized mortality rate was twice as great for VPTB infants born in hospitals in the highest mortality tertile (0.40; 95% CI, 0.38–0.41) as for those born in the lowest mortality tertile (0.14; 95% CI, 0.14–0.18). Black (1204 of 2775 [43.4%]) and Hispanic (1004 of 2775 [36.2%]) infants were more likely than white (325 of 1418 [22.9%]) infants to be born in the highest morbidity and mortality tertile (2-tailed  $P < .001$ ). Among black, Hispanic, and white VPTB infants, however, 40% (95% CI, 30%–50%) of the black-white disparity and 30% (95% CI, 10%–49%) of the Hispanic-white disparity was explained by birth hospital.

**CONCLUSIONS AND RELEVANCE** Black and Hispanic VPTB infants are more likely than white VPTB infants to be born in hospitals with higher risk-adjusted neonatal morbidity and mortality rates. Differences in care by race and ethnicity contribute to excess morbidity and mortality among black and Hispanic infants.

JAMA Pediatr. doi:10.1001/jamapediatrics.2017.4402  
Published online January 2, 2018.

Editorial

Figure. Hospital Rankings for Risk-Adjusted Neonatal Morbidity and Mortality, New York City, NY, 2010-2014



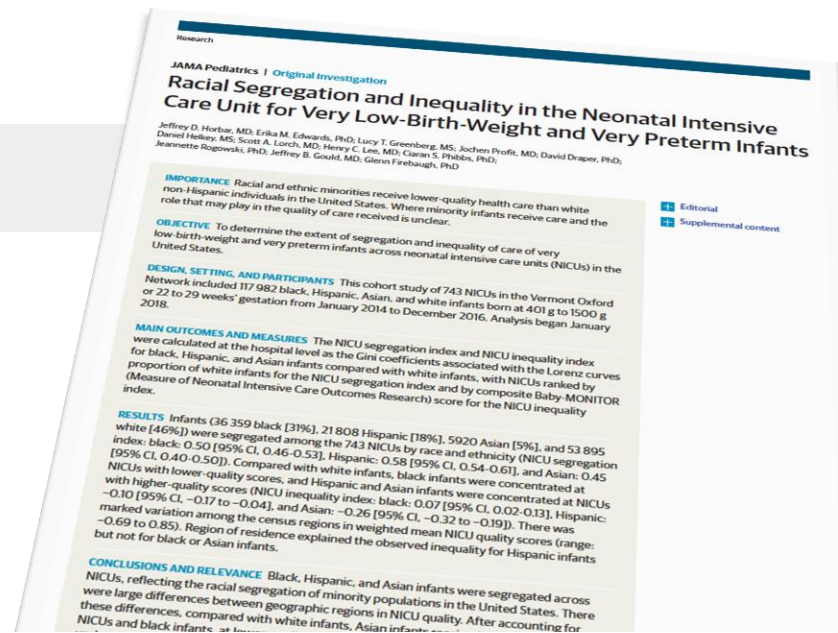
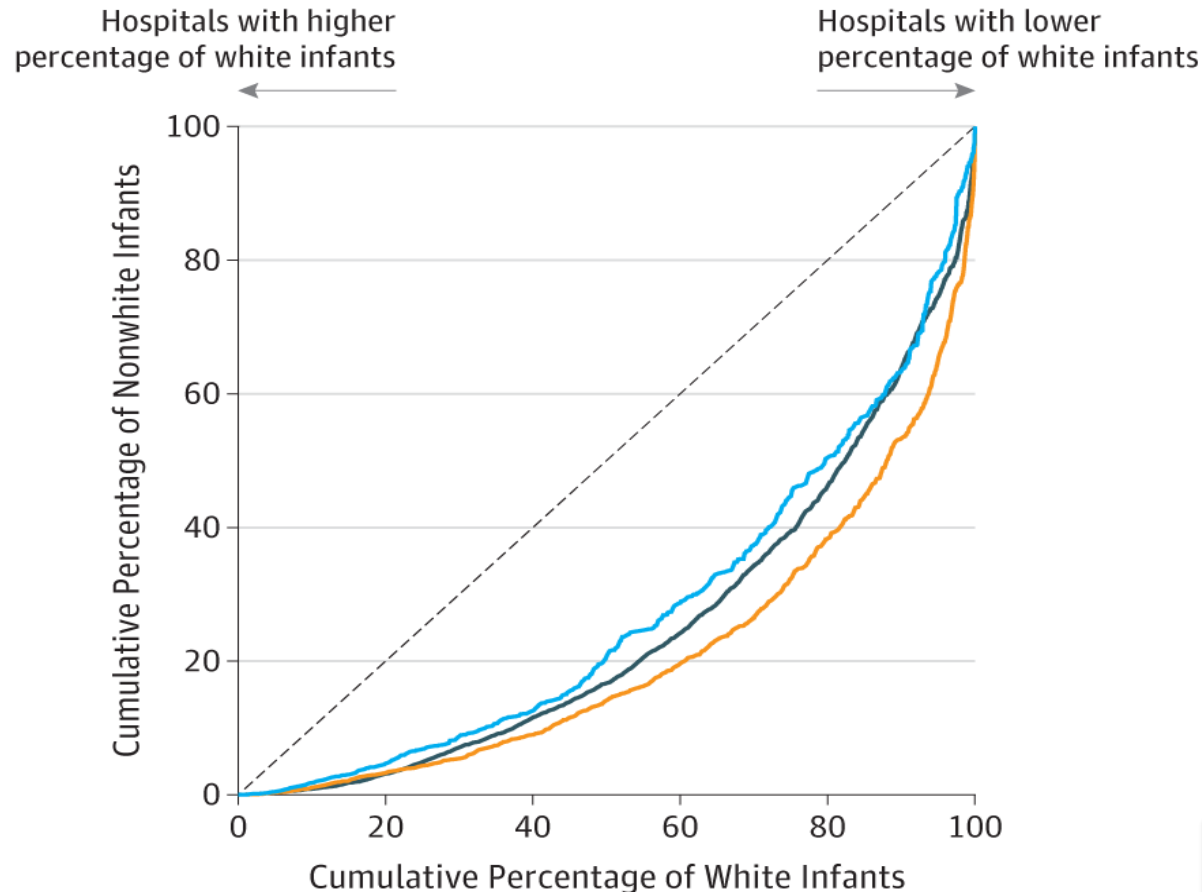
40%(95%CI, 30%-50%) of the black-white disparity and 30% (95%CI, 10%-49%) of the Hispanic-white disparity was explained by birth hospital.

Howell et al. JAMA Pediatr 2018

Corresponding Author: Elizabeth A. Howell, MD, MPP, Icahn School of Medicine at Mount Sinai, One Gustave L. Levy Place, Box 1077, New York, New York 10029 (elizabeth.howell@mountsinai.org).

# Racial Segregation in the NICU

	NICU Segregation Index (95% CI)
Black	0.50 (0.46-0.53)
Hispanic	0.58 (0.54-0.61)
Asian	0.45 (0.40-0.50)

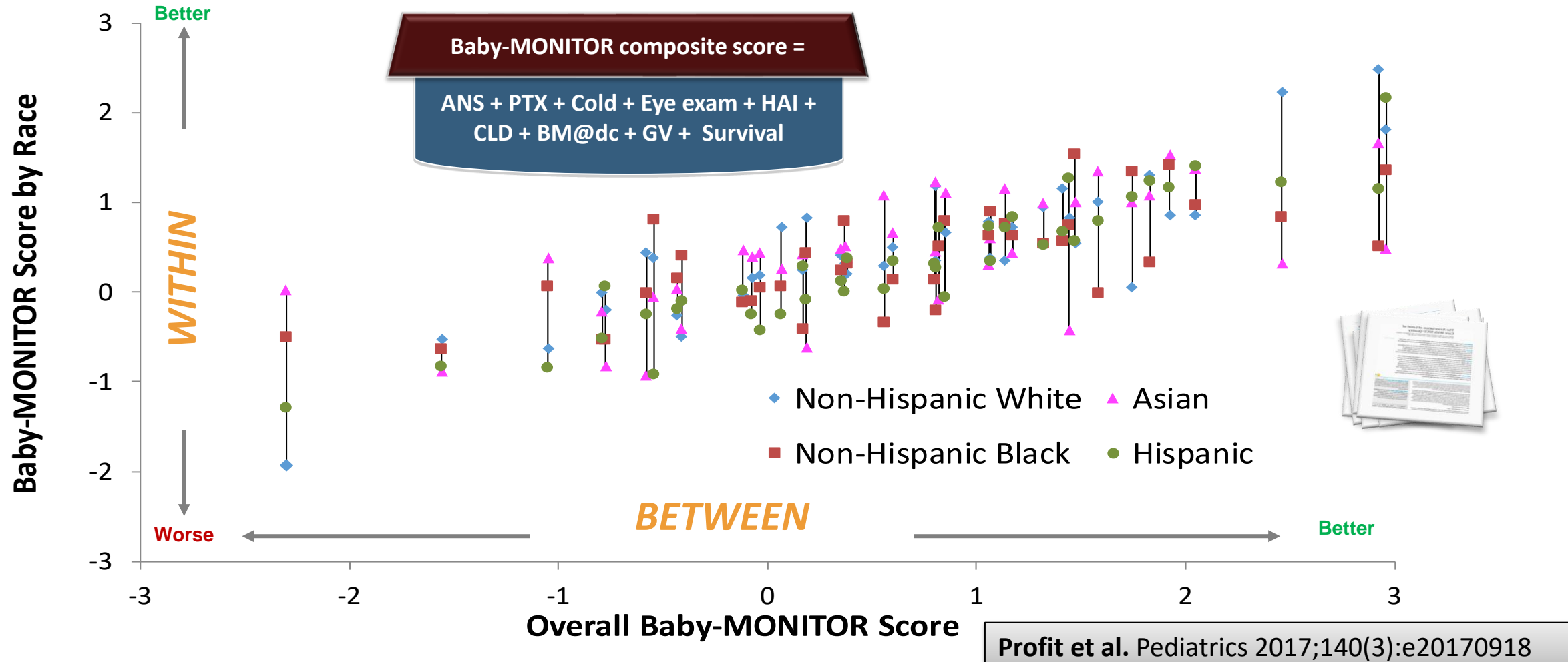


Lorenz Curves for **Segregation** by Race/Ethnicity in US NICUs ranked by the proportion of white infants from highest to lowest, and the cumulative population percentages of white and minority infants were plotted on the x- and y-axes. If all NICUs had the same racial distribution as the overall population, the curves would fall on the diagonal.

Edwards, Horbar, Profit et al. *JAMA Pediatr* 2019



# Variation in Quality of Care by R/E *WITHIN* and *BETWEEN* NICUs



# Disparities in Health Care–Associated Infections in the NICU

Jessica Liu, PhD, MPH<sup>1,2</sup> Charlotte Sakarovich, PhD<sup>1,2</sup>  
Henry C. Lee, MD, MS<sup>1,2</sup> Jochen Profit, MD, MPH<sup>1,2</sup>

<sup>1</sup>Perinatal Epidemiology and Health Outcomes Research Unit, Division of Neonatology, Department of Pediatrics, Lucile Packard Children's Hospital, Stanford University School of Medicine, Palo Alto, California

<sup>2</sup>California Perinatal Quality Care Collaborative, Palo Alto, California

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<sup>4</sup>Medical Data Lab, Université Côte d'Azur, Nice, France

Am J Perinatol

## Abstract

**Objectives** This study

associated infection (HAI)

race/ethnicity and its

**Study Design** This is

between 2011 and 2015

**Results** Risk-adjusted

units (NICUs), ranging

higher odds of HAI

Non-Hispanic black

tertile of infection

ethnicities suffered sim

**Conclusion** Hispanic in

variation in infection across

with infection.

## Keywords

- infant
- health care–associated infection
- disparity
- risk factors

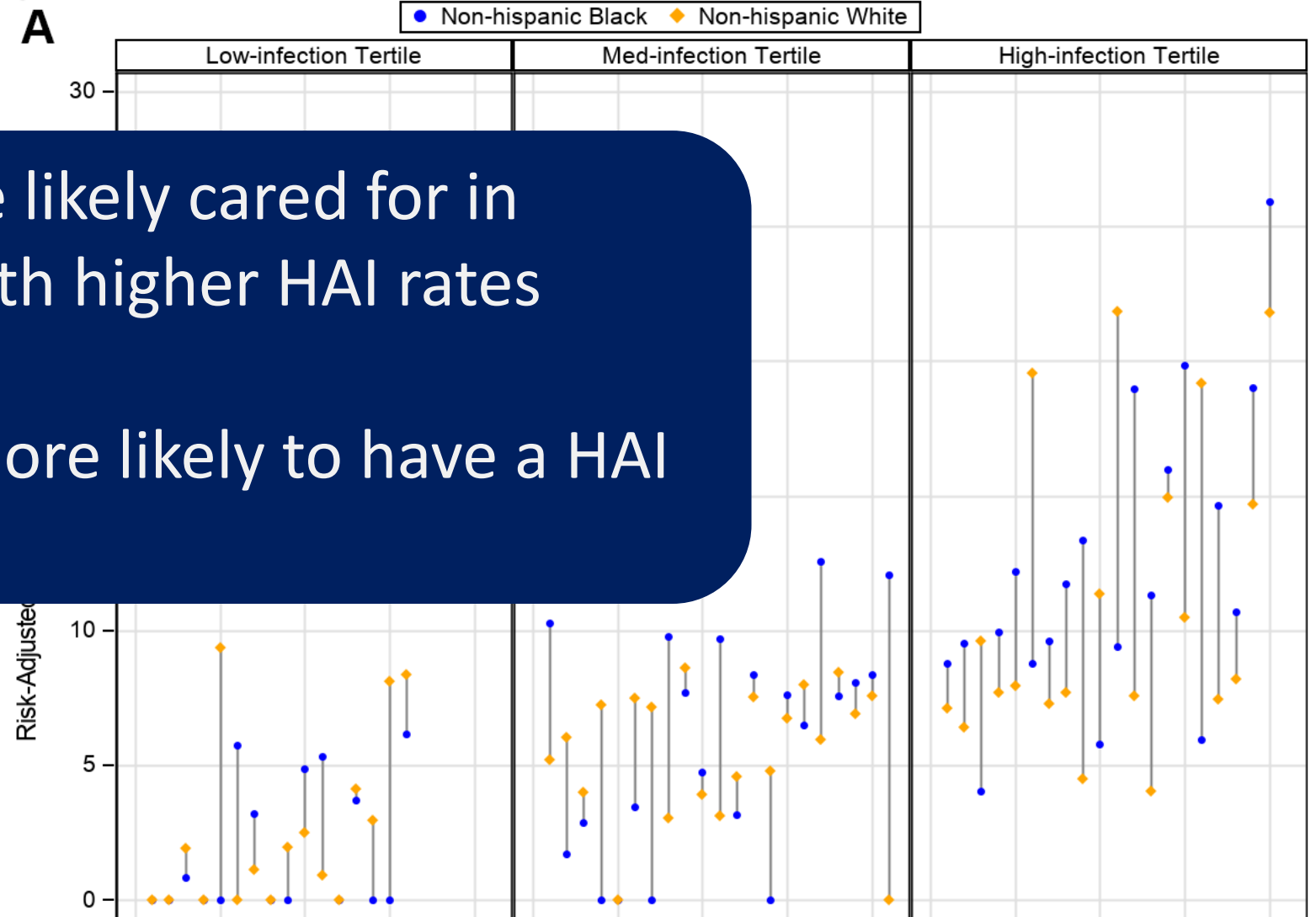
Health care–associated infection (HAI) is a serious complication among very low birth weight (VLBW; <1,500 g) preterm infants hospitalized in the neonatal intensive care unit (NICU), and infection rates in these infants have ranged from 21 to 30%.<sup>1–4</sup> VLBW infants are especially susceptible to HAI. They are immune-incompetent hosts, require prolonged hospitalization, undergo frequent invasive procedures, and receive prolonged broad-spectrum antibiotics and intravenous nutrition.<sup>1,5–7</sup> In addition, infection risk is conveyed by a combination of maternal health and clinical practice-related factors.<sup>1–3,5,6,8–11</sup>

HAIs are associated with increases in neurodevelopmental impairment, mortality, length of stay, and as a result, increased financial costs of care.<sup>3,6,12–17</sup> Payne et al reported that the occurrence of just one single type of HAI would increase costs of treating VLBW infants by \$100 million.<sup>12</sup> Reducing HAI has been a priority in recent years, and successful efforts have been reported from individual NICUs and through collaborative networks, such as the Vermont Oxford Network and the California Perinatal Quality Care Collaborative (CPQCC).<sup>7,18–20</sup>

Vulnerable populations may be differentially affected by HAI because they may receive care in challenged hospitals, which provide lower quality of care,<sup>21–23</sup> or differential treatment within hospitals.<sup>24</sup> HAI is more dependent on

<sup>1</sup> At the time of this research, Dr. Sakarovich was a senior statistician at the quantitative sciences unit.

Figure 2A



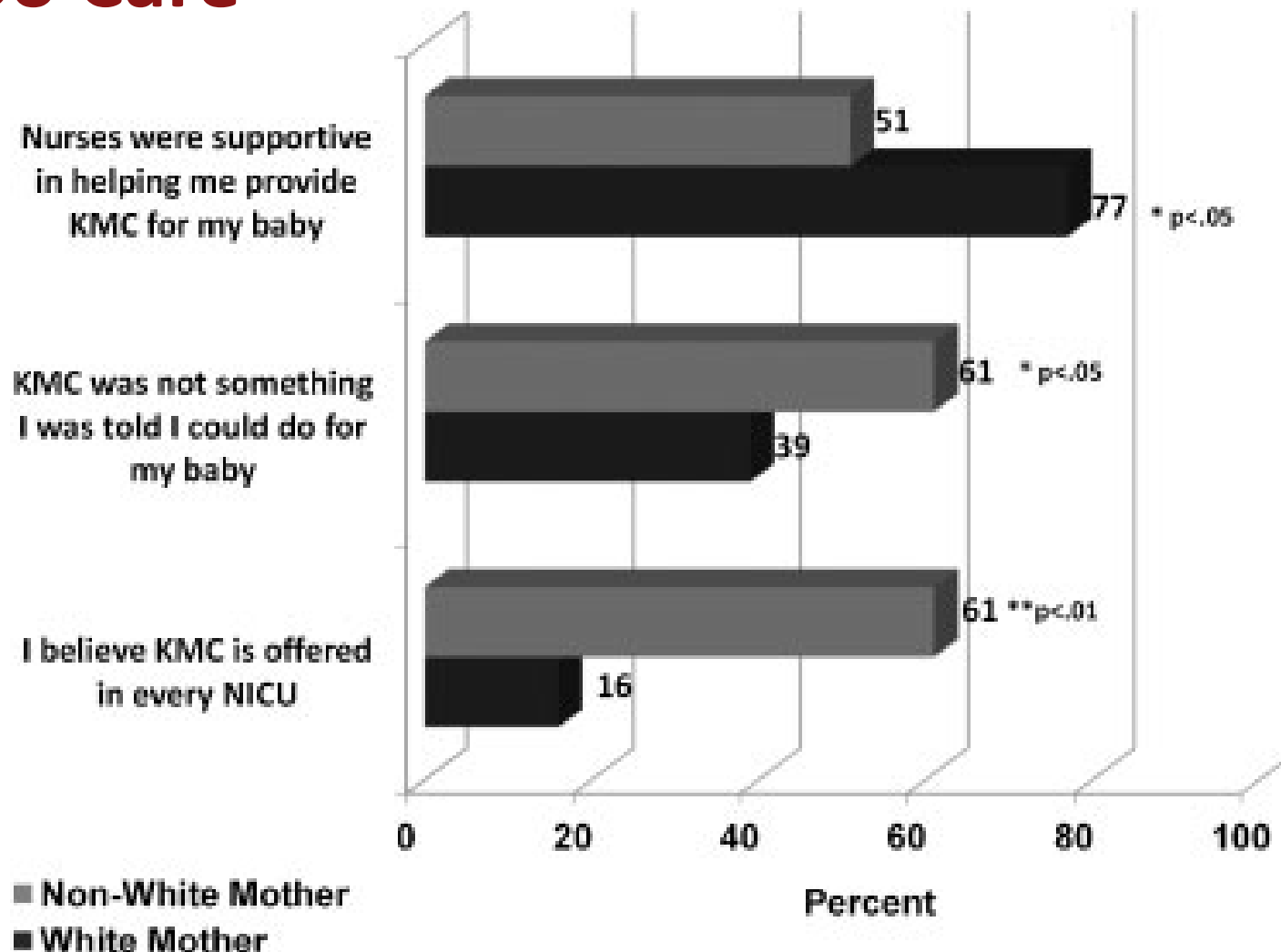
Liu, Profit, et al.

Am J Perinat 2020 Jan;37(2):166-173

## Disparities within hospitals – Interpersonal racism

# Access to Kangaroo Care

Hendricks-Muñoz et al.  
Am J Perinatol 2013

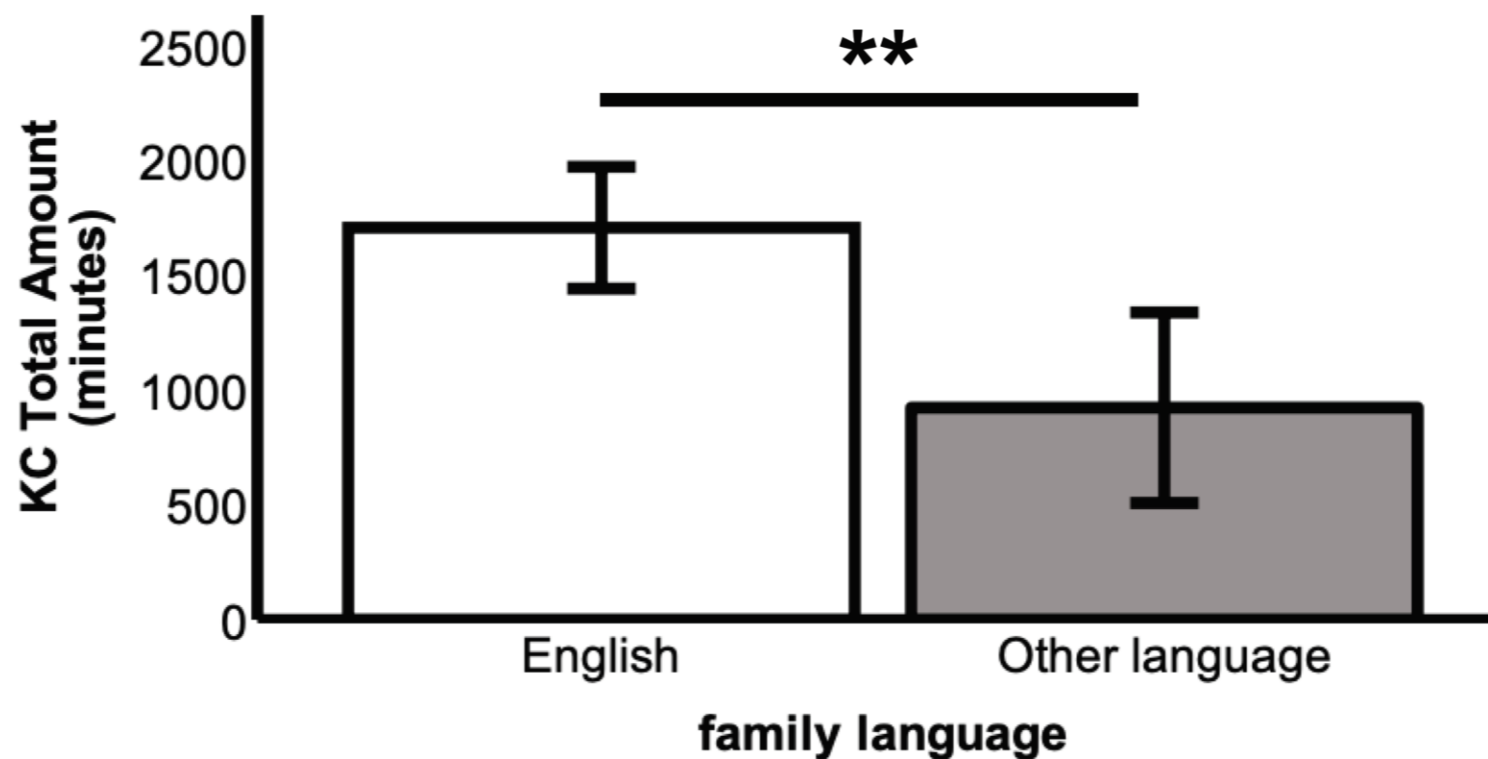


*Disparities within hospitals – Interpersonal racism*

## Access to Skin-to-Skin Care

Brignoni-Pérez E et al.

[www.medrxiv.org/content/10.1101/2020.11.09.2024766v1](https://www.medrxiv.org/content/10.1101/2020.11.09.2024766v1)

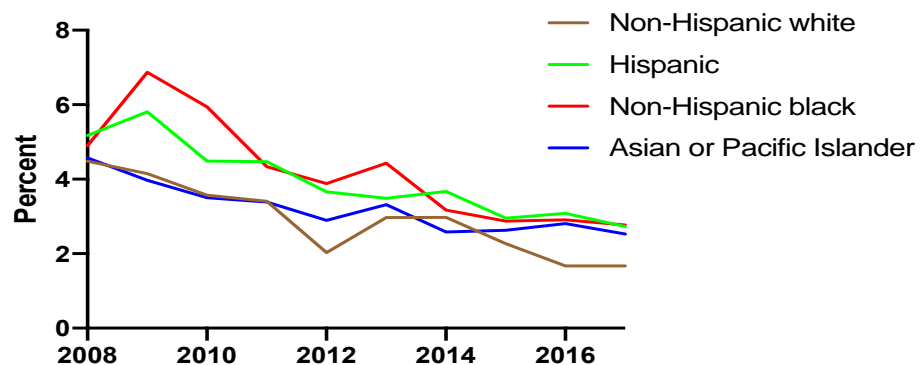




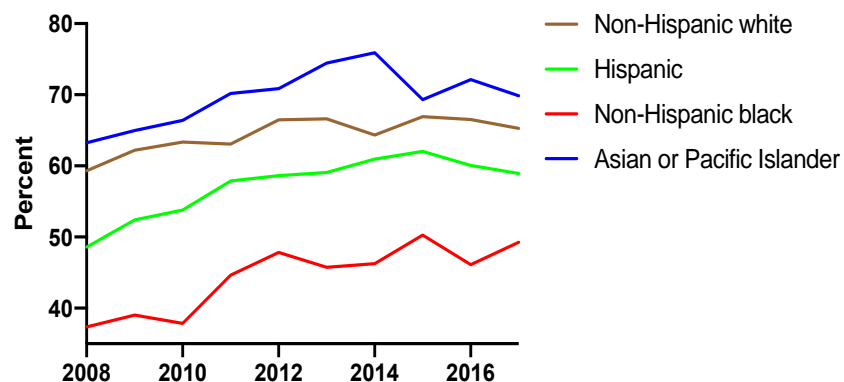
# Are disparities improving?

## NEC

NEC Incidence by Race/Ethnicity

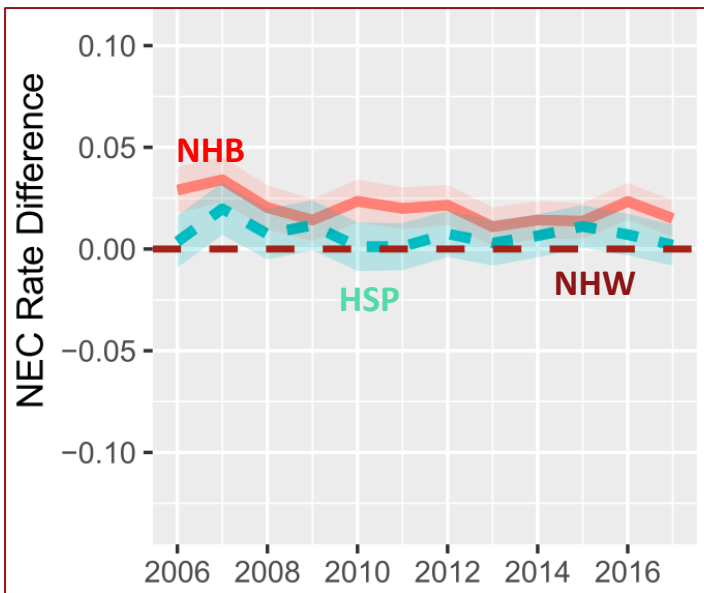


Breast Milk Use at NICU Discharge by Race/Ethnicity



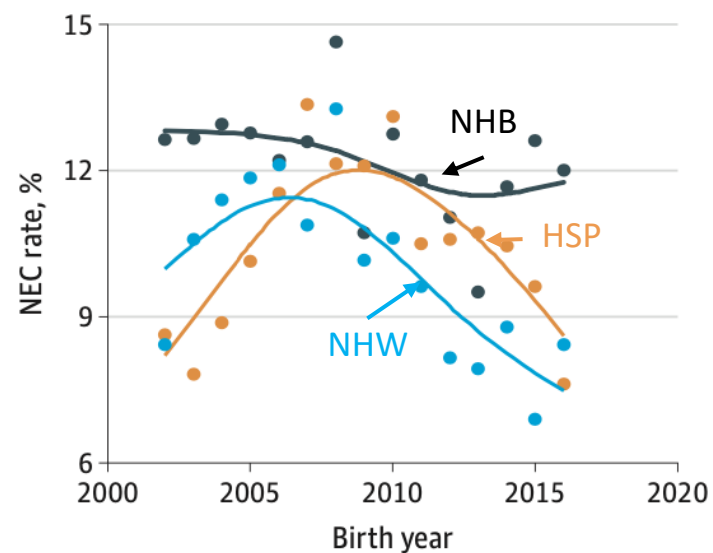
Goldstein, Profit et al.

Pediatr Res. 2020 Aug;88(Suppl 1):3-9



Boghossian et al.

Pediatrics. 2019;  
144(3):e20191106



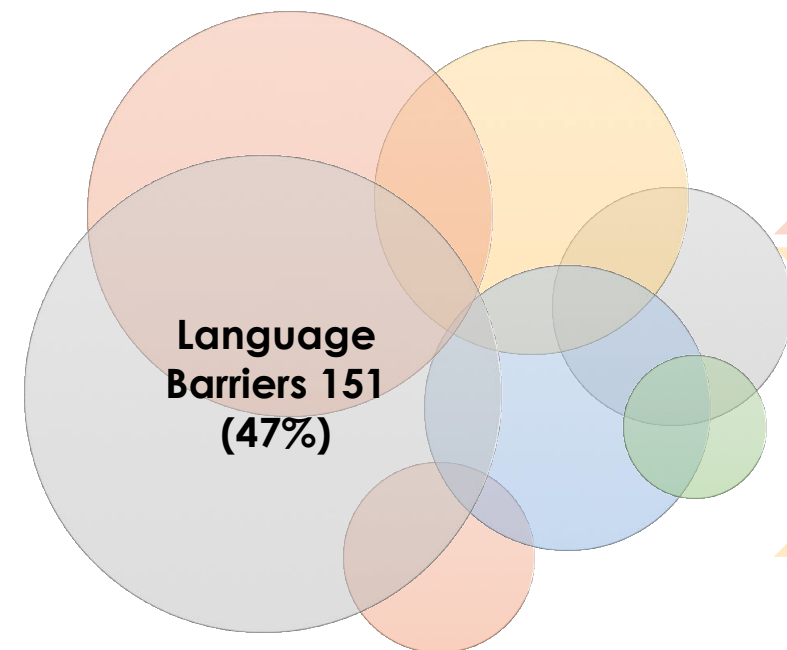
Travers, Profit et al.

JAMA Netw Open.  
2020;3(6):e206757

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**But we treat all  
patients the same!**

## Overlapping Dimensions



**Language Barriers** 151 (47%)

**Social, Economic or Racial Privilege:** 12 (3%)

## Types of Disparate Care

**Neglectful Care:** 83 (26%). NICU staff ignore, avoid or neglect family needs (e.g. breastfeeding support) when considered difficult or unpleasant or when obstacles considered too great to overcome.

**Judgmental Care:** 82 (26%): Staff evaluate a family's moral status based on race, class or immigration. Circumstances or behaviors judged more harshly. Discrimination occurs through staff attitudes or resource allocation.

**Systemic Barriers:** 139 (44%): Staff unable or unwilling to address barriers families face such as transportation, child care, housing, employment, translation needs, or religious or cultural needs.

**Priority Treatment and/or Assertive Families:** 12 (3%). Families connected to NICU receive priority treatment. Assertive families receive more attention.

**Suboptimal Care:** 312 (96%)

**Privileged Care:** 12(3%)

Sigurdson K, Profit J, et al. Disparities in NICU Quality of Care: A Qualitative Study of Family and Clinician Accounts. *J Perinatol* 2018 May;38(5):600-607

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## Neglectful care

Just a general observation when I worked as a charge nurse... Nurses tended just to **ignore parents who did not speak their language**. Often the use of a translator didn't occur daily for education and updates. These parents would have to **sit by their baby's bedside and wonder** how they were doing. ...these parents did not get the opportunity to interact and bond with their baby as a result.

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## Judgmental care

I see this all the time... the way we treat black moms is definitely different than how we treat white moms. Age plays a factor too - young moms are judged very unfairly. One black mom was judged very harshly for being late for a feeding even though she had a long and challenging transit ride to get to the hospital. A white mother who was late on the same day was greeted with sympathy...



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## Systemic barriers to care

A hispanic 24 week baby born outside the hospital with young parents with another former 25 weeker. **Parents didn't have transportation and had irregular working conditions. Child Protective Services** was called because the medical team was concerned about **infrequent visits and infants medical needs at discharge.**

# Accounts told of disparate care of families, not strictly infants



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# CPQCC Equity Action

## 1. Audit and Feedback, Benchmarking

- a. Development of new disparity sensitive metrics (FCC measure pilot)
- b. Equity Dashboard

## 2. QI focus

- a. Health Equity Taskforce – interpersonal racism, structural racism, care transitions
- b. Collaborative of safety net NICUs
- c. Use of disparity aim in QICs

## 3. Education

- a. CPQCC annual meeting focus on equity and anti-racism
- b. Disparity Tip Sheet

## 4. Research

- a. Various efforts and collaborations

# 1. Audit and Feedback

## a. Measuring Family Centered Care

- \* Expert panel with FAMILY REPRESENTATIVES.  
Focus groups and interviews with minoritized families

- \* DELPHI METHOD

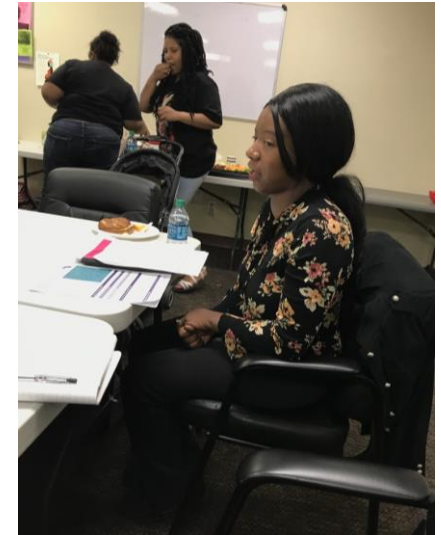
Structured method for expert input without need for consensus  
Two rounds of multi-criteria ratings of measures

SELECTION CRITERIA:

- Median rating  $\geq 7$  (scale of 1 (low) – 9 (high))
- Pass test for agreement (80% of ratings between 7-9)
- Pass test for disagreement (90% of ratings were between 4-9)

- \* OVERALL GOAL

Develop a balanced scorecard of measures across multiple domains



Sigurdson K, Profit J, Dhurjati R, Morton C, Scala M, **Vernon L\***, **Randolph A\***, Phan JT, Franck LS. **Former NICU Families Describe Gaps in Family-Centered Care. *Qual Health Res* 2020. \*Former NICU moms**

# Four Candidate Measures Selected – 30 NICU Pilot started 1/2021

## ENGAGING FAMILIES AS PARTNERS

- Family presence at the bedside
- Family not present at the bedside
- **NICU family advisory council (✓)**

## FAMILY PARTICIPATION IN HANDS-ON CARE

- **Days to first skin-to-skin care (✓)**
- Frequency of skin-to-skin care
- Days to skin-to-skin by two family members

## SUPPORT FOR BREASTFEEDING

- NICU lactation consultant availability
- Time to first lactation consult
- **Time to priming with oral colostrum (✓)**

## PROVIDING SERVICES AND SUPPORTS

- NICU social worker availability
- Time to social worker contact
- **Delayed social worker encounter (✓)**
- Frequency of social worker contact

## COMMUNICATING WITH FAMILIES

- Frequency of updates to families by MD/NNP/RN
- Frequency of updates to families with limited English proficiency by MD/NNP/RN
- Provision of interpreter services

## CARE COORDINATION

- Post-discharge care coordination\*
- Continuity of care by RN\*
- Continuity of care by MD\*

\*Care coordination measures to be subjected to additional research- Not selected at this time



# 1b. CPQCC EQUITY DASHBOARD

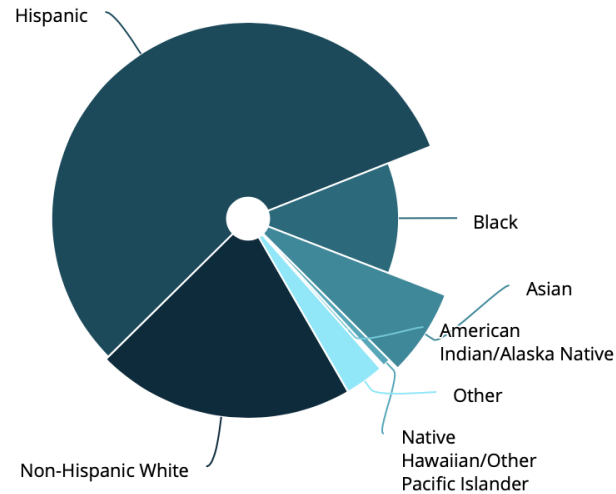
Health Equity Dashboard as of Sep 17, 2020 at 04:36



Safety Net Hospitals ▾

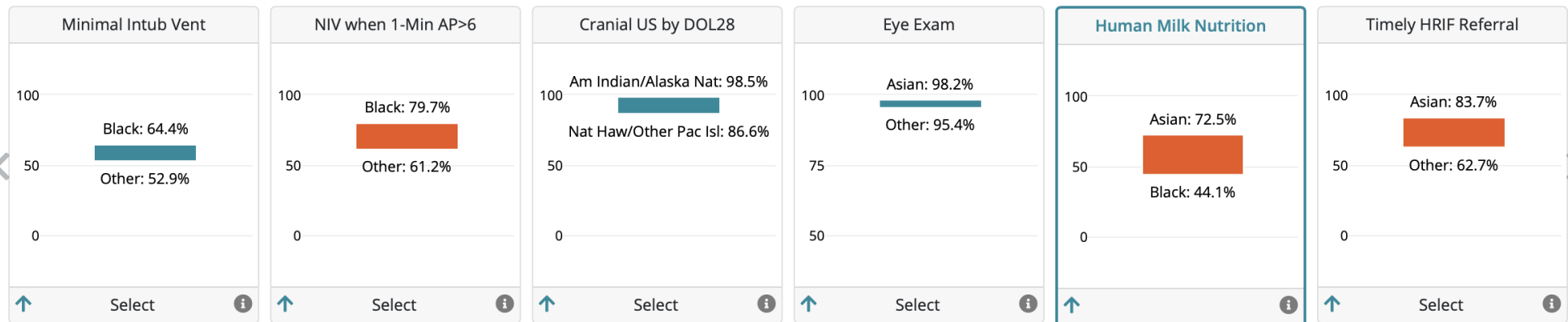
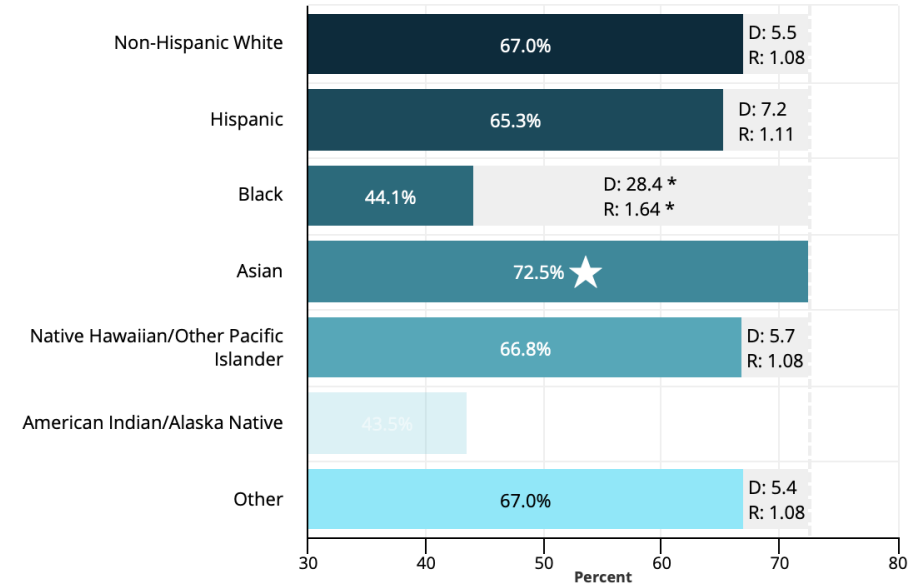
2015 - 2019 ▾

**Race/Ethnicity Distribution for all VON Small Babies**  
Radii proportional to % with Human Milk Nutrition

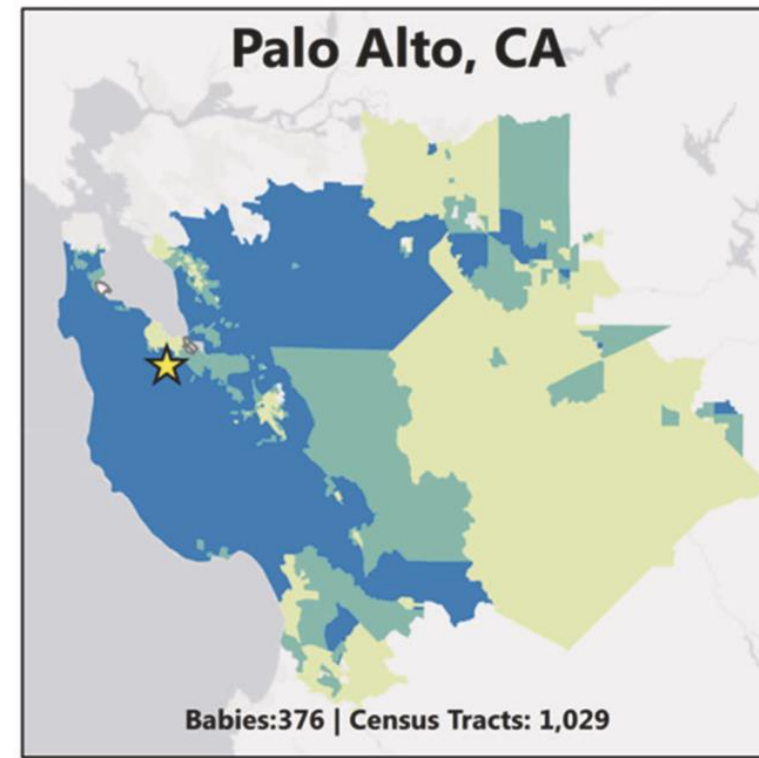
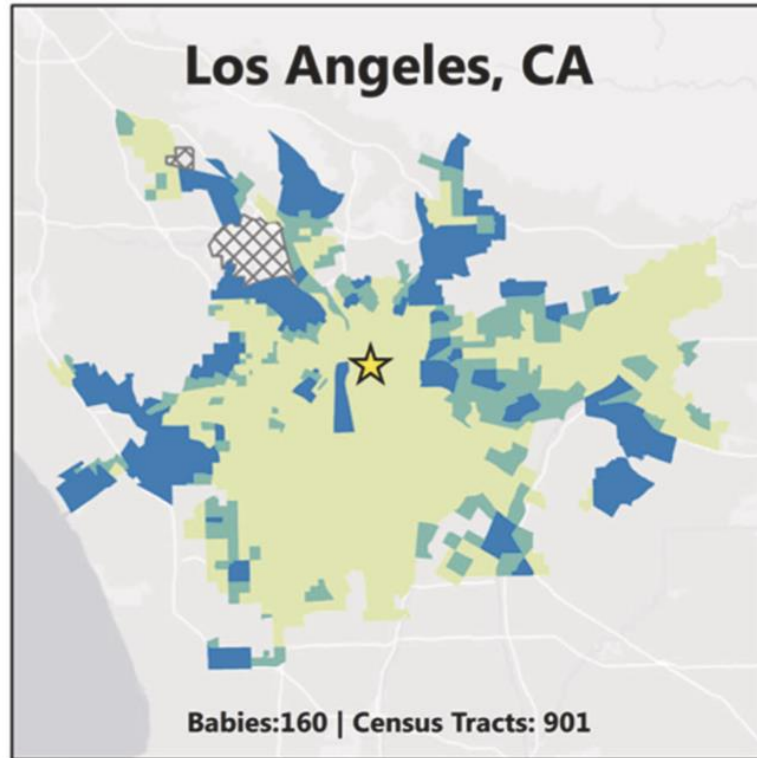


**Human Milk Nutrition by Race/Ethnicity**

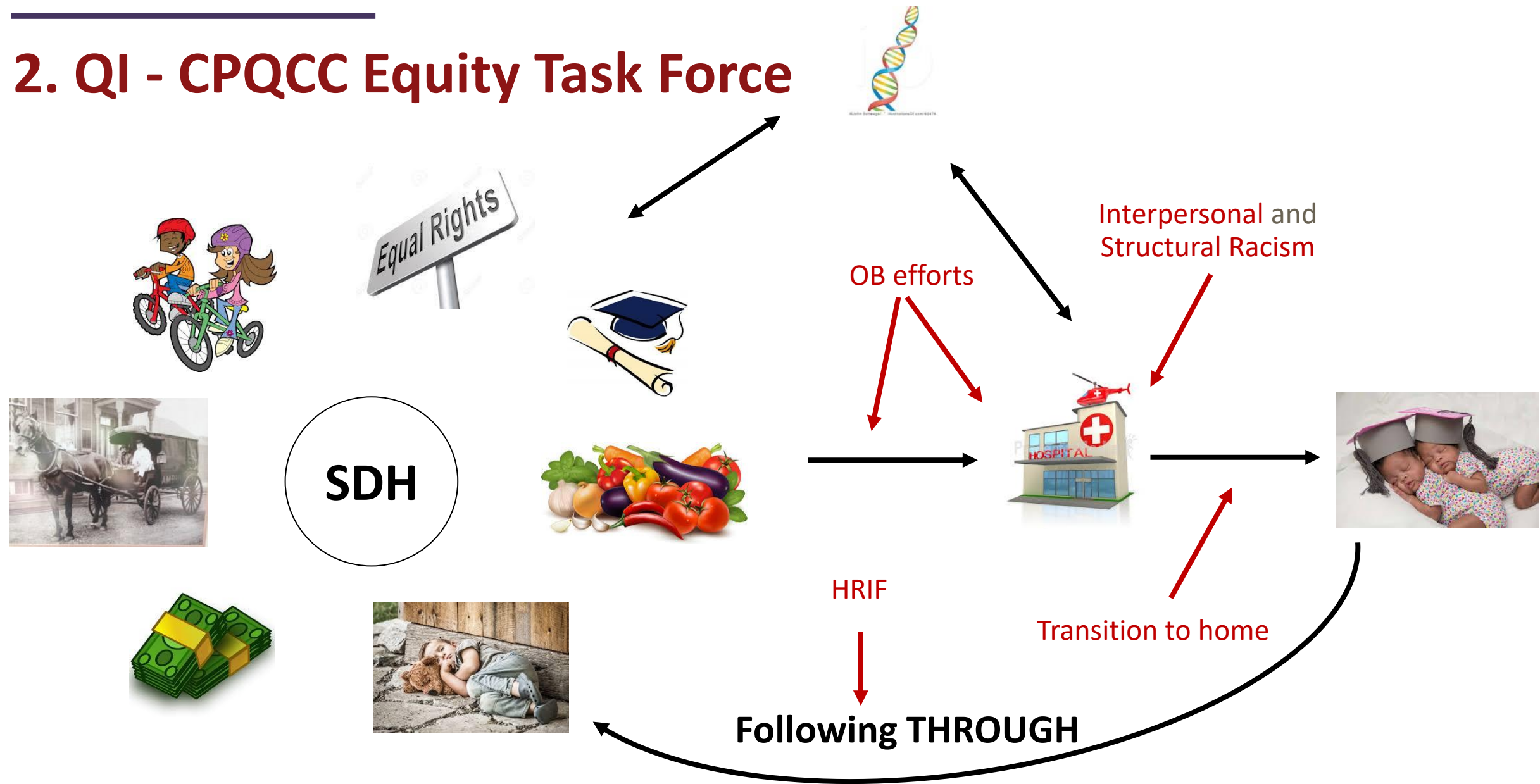
Reset zoom



# NICU catchment areas



# 2. QI - CPQCC Equity Task Force



# 3. Education – Call to Action

Friday, March 5, 2021

## 2021 CPQCC Improvement Palooza

Advancing Anti-Racism in the NICU Through Teamwork and Family Centeredness

## 2021 CPQCC Improvement Palooza

- |   |   |
|---|---|
| 8:00 <b>Opening and Welcome</b><br><i>Elizabeth Rogers, MD</i>  | 2:00 <b>Brave Spaces: Restoring Right Relationships</b><br><i>Amber McZeal, MA, Elizabeth Rogers, MD,<br/>Cloteal Franklin &amp; Mark Burns</i>   |
| 8:15 <b>Practicing Anti-Racism to Improve Outcomes for Black Infants</b><br><b>Moderator:</b> <i>Carmin Powell, MD</i><br><i>Rachel R. Hardeman, PhD, MPH &amp;<br/>Tamora Lewis, MD, PhD</i> | 2:45 <b>Break</b>   |
| 9:25 <b>How to Build and Make the Most of Your QI Team: CPQCC Leadership</b>  | 2:55 <b>QUALITY IMPROVEMENT SUCCESSES FROM CPQCC MEMBERS</b><br><b>Mother And Baby Substance Exposure Initiative (MBSEI) Collaborative: UC Irvine</b><br><i>Pam Aron-Johnson, RN, Robin Koeppel, DNP, CNS &amp;<br/>Alexandra Jacob, MD</i>                   |
| 9:55 <b>Break</b>   |   |
| 10:05 <b>NICU Partnerships: Respect, Trust &amp; Collaboration</b><br><b>Moderator:</b> <i>Ashley Randolph</i><br><i>Jochen Profit, MD, MPH, Necole McRae &amp;<br/>Jenne' Johns, MPH</i>     | <b>Reducing Hypothermia in ELBW Infants:</b><br><b>Kaiser Permanente Fontana</b><br><i>Dilip R. Bhatt MD, FAAP, FACC, FACMQ, Rangasamy<br/>Ramanathan, MD, Nirupa Reddy, MD, V. Reinaldo Ruiz, MD,<br/>FACOG &amp; Sunjeeve Weerasinghe, MSN, NNP-BC, CNS</i> |
| 11:15 <b>How to use the CPQCC Health Equity Dashboard to Advance Equity in Your NICU: Center Work with PQIP Ambassadors</b>   | <b>Grow, Babies, Grow: Mercy San Juan Medical Center</b><br><i>Laura Dennis, RD, MAS, Carolyn Getman, MD,<br/>Sofie De Nardi, MD &amp; Gale Schmaltz, NNP</i>   |
| 12:00 <b>Lunch (team lunch with personal reflection)</b>  | 3:50 <b>Closing Remarks</b>   |
| 1:00 <b>Access, Equity and the California Latinx Experience</b><br><i>Cristina Gamboa, MD, Ashwini Lakshmanan, MD, MS,<br/>MPH &amp; Marina Persoglia Bell, MA</i>                            | 4:00 <b>Adjourn</b>   |

You Retweeted



**Christine Morton** @christinemorton · Mar 5

Really looking forward to talking about hard things with @carminmari @tamorahlewisMD @RRHDr #antiracistNICU building on the work of so many important scholars Thank you @CPQCC for this session

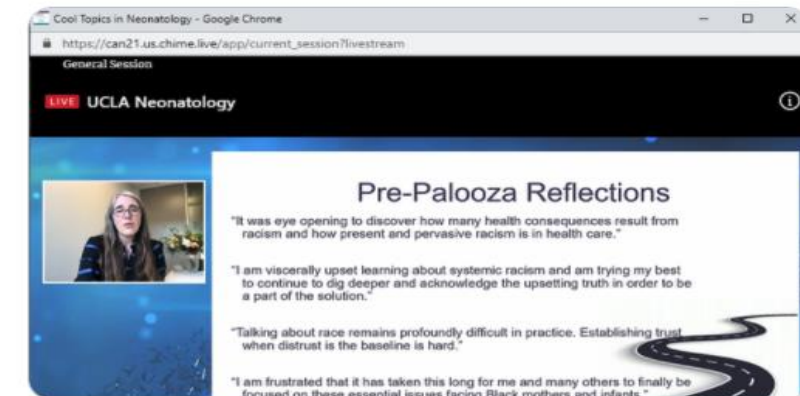


You Retweeted



**Henry Lee** @henryleeneo · Mar 5

Thank you to @eerothersmd and @cpqcc planning committee for Improvement Palooza - 'not one day event, but a journey that we are embarking on together - to dismantle racism'



Jennifer Canvasser and Pedro Paz



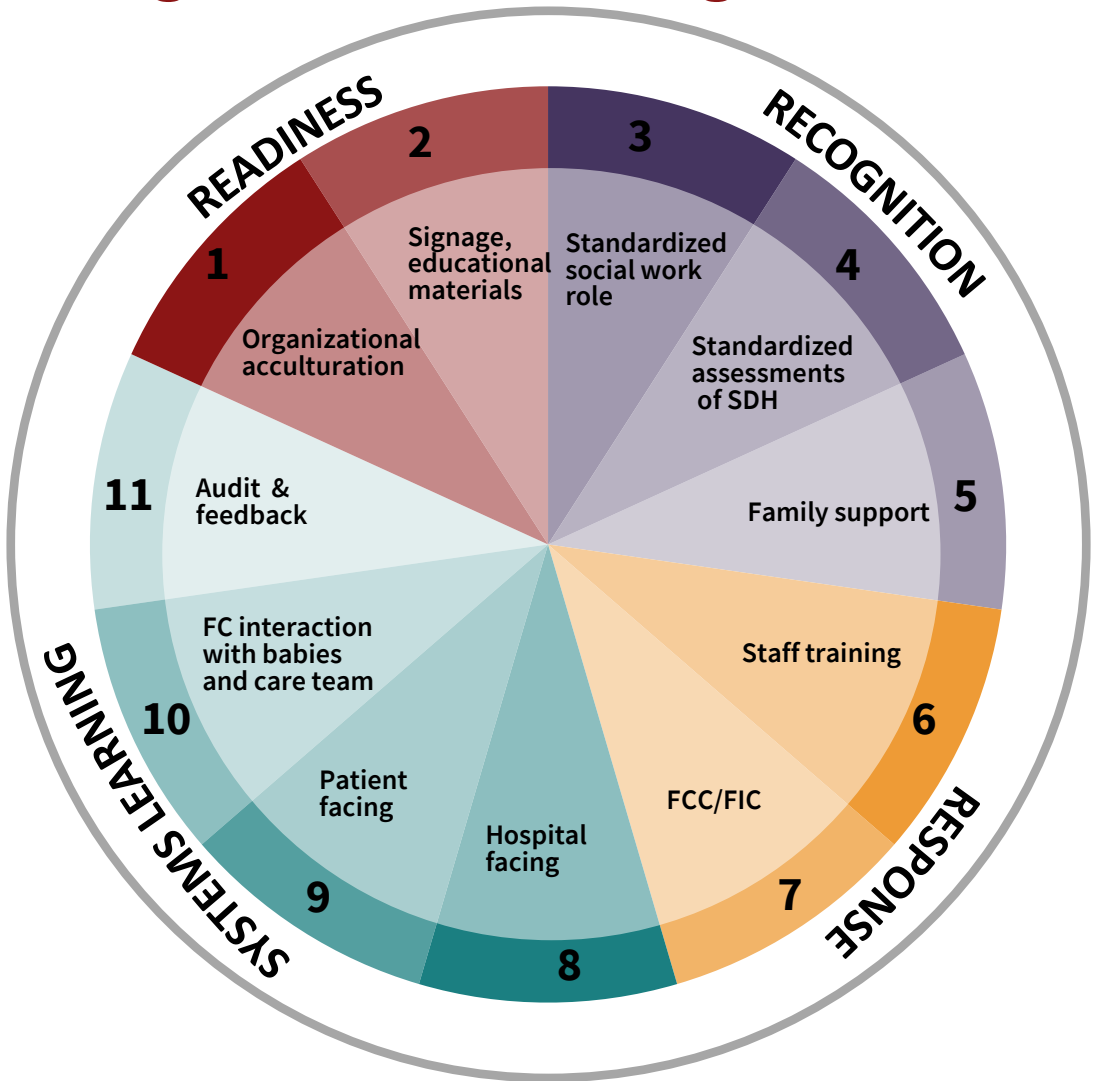
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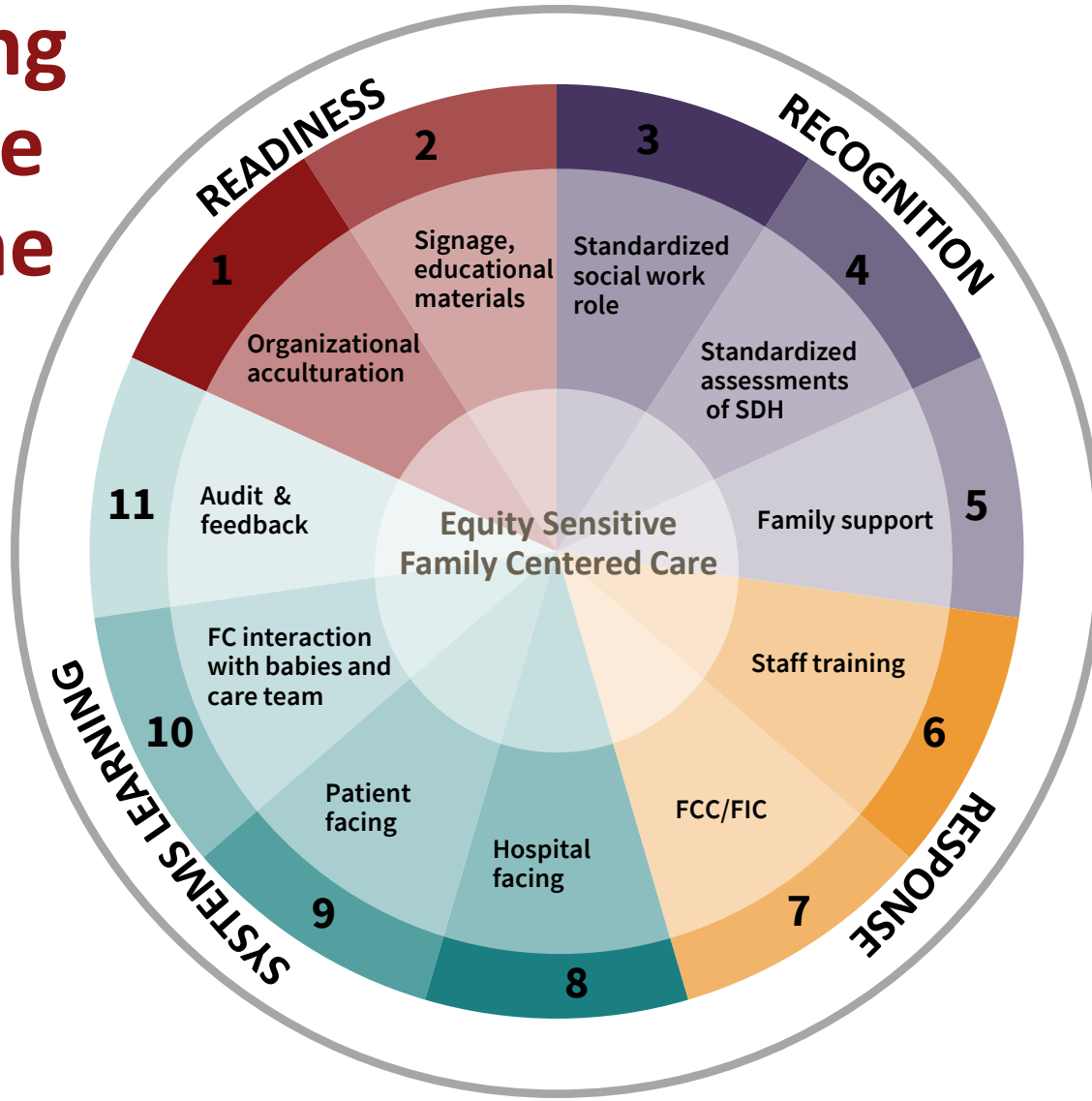


# 3b. Education - Disparity Tip Sheet and Organizational Change Framework





# Changing what we do in the NICU



FCC or Family

Integrated Care

Audit and feedback of quality measures by race/ethnicity/language or over the phone/video

- Language concordance

REVIEW ARTICLE **OPEN**

# The color of health: how racism, segregation, and inequality affect the health and well-being of preterm infants and their families

Andrew F. Beck<sup>1,2</sup>, Erika M. Edwards<sup>3,4,5</sup>, Jeffrey D. Horbar<sup>3,4</sup>, Elizabeth A. Howell<sup>6,7,8</sup>, Marie C. McCormick<sup>9,10,11</sup> and DeWayne M. Pursley<sup>9,11</sup>

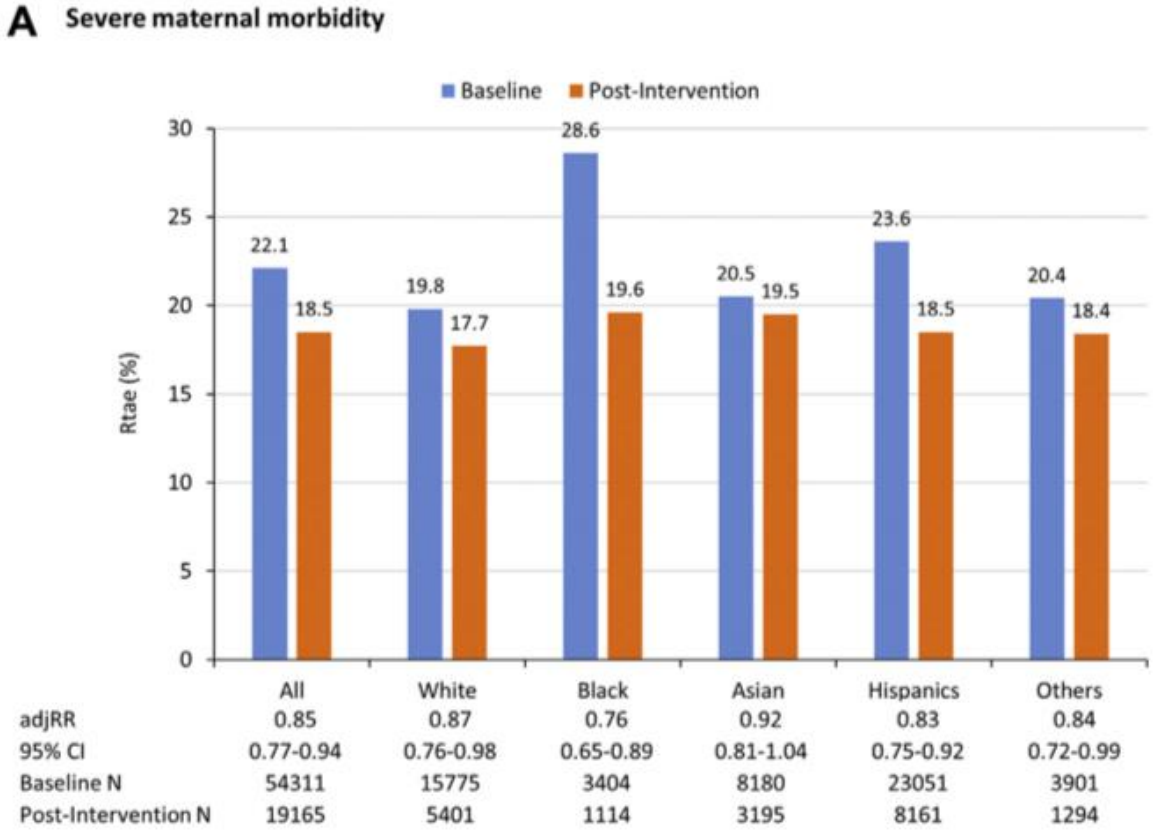
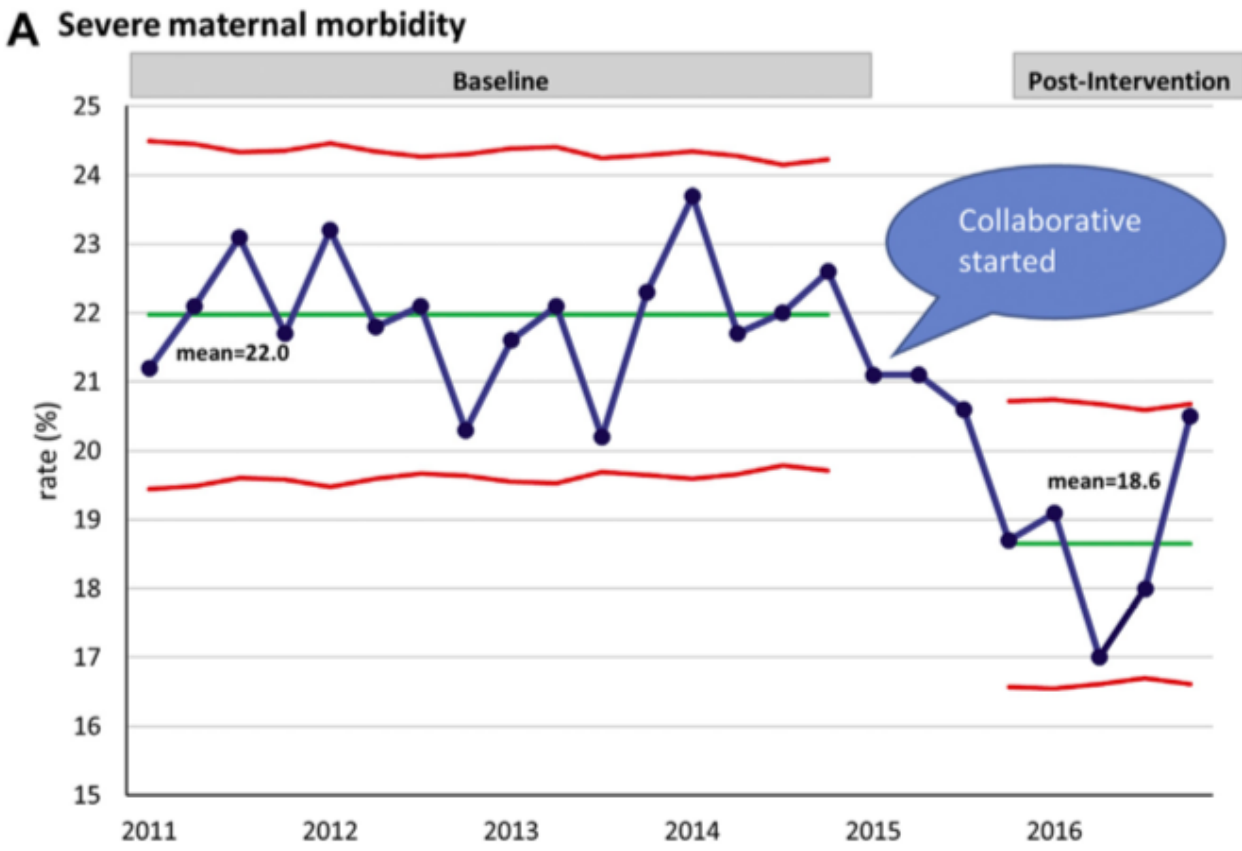
Our Responsibility to Follow Through for NICU Infants and Their Families

Jeffrey D. Horbar, MD,<sup>1\*</sup> Erika M. Edwards, PhD, MPH,<sup>4\*\*</sup> Yolanda Ogbolu, PhD, CRNP-Neonatal, FAAN<sup>1\*</sup>

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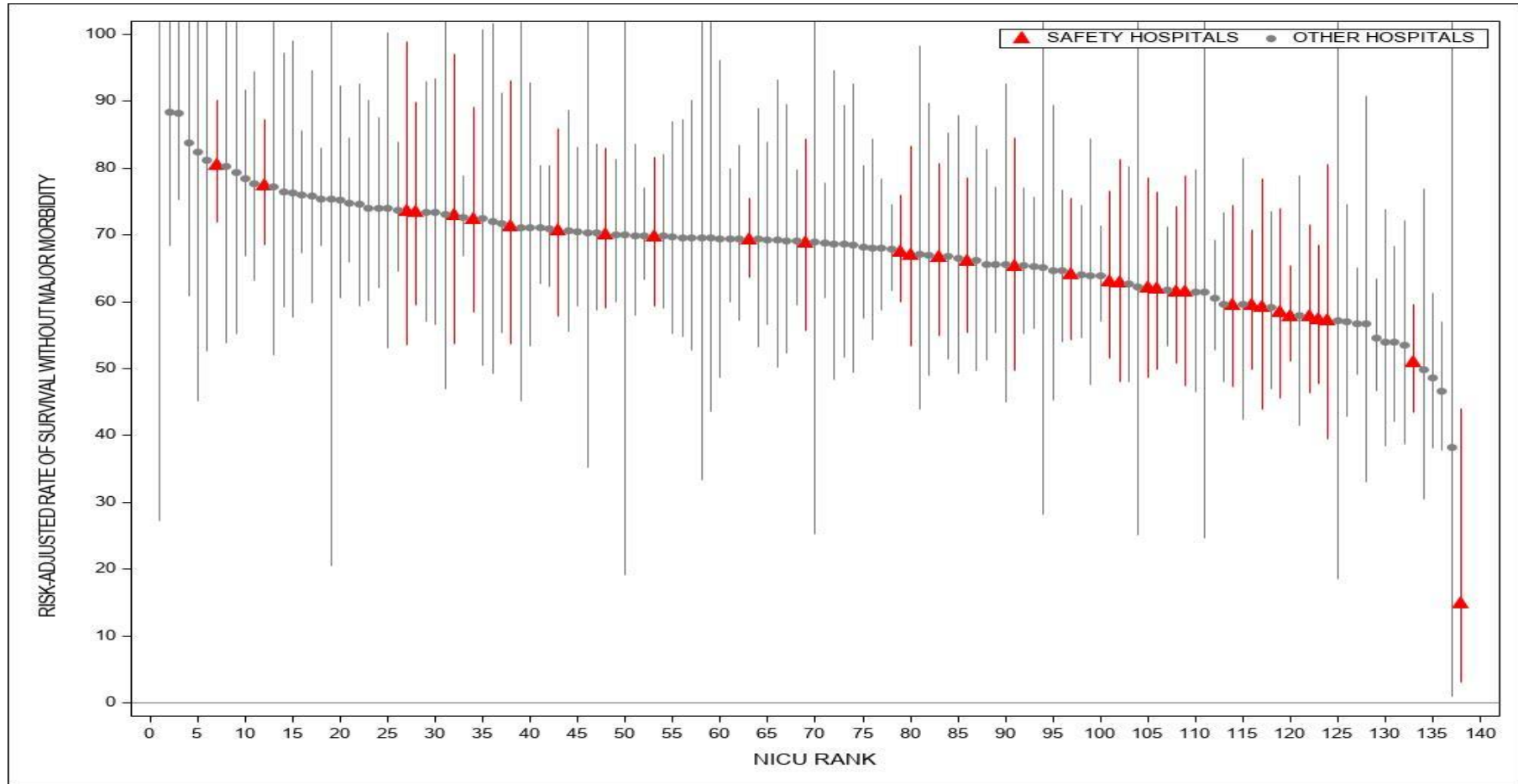
1. Identify, prevent, and mitigate social risks
2. Recognize our responsibility does not end at NICU discharge
3. Develop robust QI efforts to ensure equitable, high-quality NICU care
4. Advocate for social justice at the local, state, and national level

# 4. Research – Technical Versus Adaptive Disparity Solutions QI



Main, Profit et al. AJOG 2020

## 4. Research



Liu J, Pang E, Iacob A, Profit J, et al., *under review*

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## Summary

- **We don't practice in a social cocoon**
- Institutional and interpersonal racism in the NICU exists and needs to be addressed
- Education is necessary but not sufficient, trust in QI methods
- Families know best
- Try Something Tomorrow!!





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**@ProfitJochen**

**@CPQCC**



“OF ALL THE  
FORMS OF INEQUALITY,  
INJUSTICE IN HEALTH  
CARE IS THE  
MOST SHOCKING AND  
INHUMANE.”

~ Dr. Martin Luther King, Jr.