Introduction to CPQCC and Friends

September 30, 2020



Webinar Logistics

- Attendees are automatically muted upon entry
- The "chat" function has been disabled. Please utilize the Q&A box if you are having technical difficulties and to submit any questions you have for the presenters. We will answer as many questions as possible during the Q&A portion of the webinar.
- The slides and webinar recording will be sent out after the webinar and will also be posted on the CPQCC website at https://www.cpqcc.org/engage/annual-data-training-webinars-2020



Presenters

- Jeffrey Gould Chief Executive Officer
- Courtney Breault Associate Director of Quality



All About CPQCC

Jeffrey Gould, MD, MPH



A Bold Vision and Big Promise 1997

To create the nation's <u>first</u> state-wide perinatal quality improvement collaborative: **CPQCC**.



CPQCC's Mission

To **optimize the health and outcomes** of California's pregnant women and their infants by developing a **collaborative network** of Public and Private, Obstetric and Neonatal Providers, Insurers, Public Health Professionals and Business Groups to support **self assessment**, **benchmarking**, **and performance improvement activities** for perinatal care.



Organizational Philosophy

- Quality improvement is a worthwhile activity
- Bottom up approach
- Maximize value for members and stakeholders



Stakeholder Value

CA Association of Neonatologists (CAN)

- Impact of funding restrictions
- Input on inevitable report carding
- Organized CQI as a possibility

State Maternal and Child Health Branch (MCAH)

• Need for morbidity assessment

CA Children's Health Services (CCS)

• Need for NICU medical quality assurance

Pacific Business Group on Health (PBGH)

• Consumer-oriented quality assessment

Packard/Vermont Oxford Network (VON)

• Statewide application of VON



Executive Committee

California Association of Neonatologists (CAN)

District IX, Perinatal Section, AAP

American College of Obstetricians and Gynecologists

Maternal and Child Health Branch (MCH)

California Children's Services (CCS)

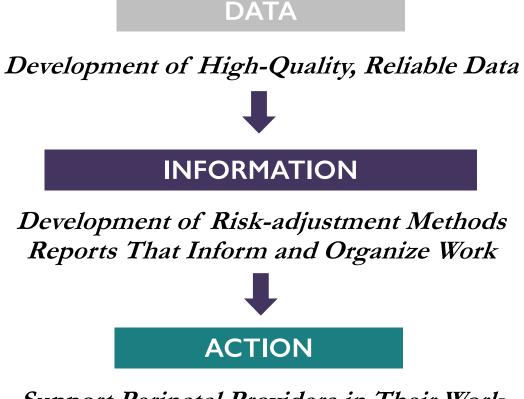
Office of Vital Records

Office of Statewide Health Planning and Development

Pacific Business Group on Health Health Insurance Plans of California Hospital Council Vermont Oxford Network (VON) David and Lucile Packard Foundation



Quality Improvement: The Challenge



Support Perinatal Providers in Their Work Of Improving Perinatal Care and Outcomes



CPQCC Database Quality

- On site audits
 - Diversity of approaches to data entry need frontline expertise
- Range and logic checks
 - Difficult to repair after data entry real time entry assessment
- Audit for excessive missing data
- Yearly data training
- Data Committee Advisory Group (DCAG)



The **BIG** Three

- Executive Committee
- Data Committee Advisory Group (DCAG)
- Perinatal Quality Improvement Panel (PQIP)

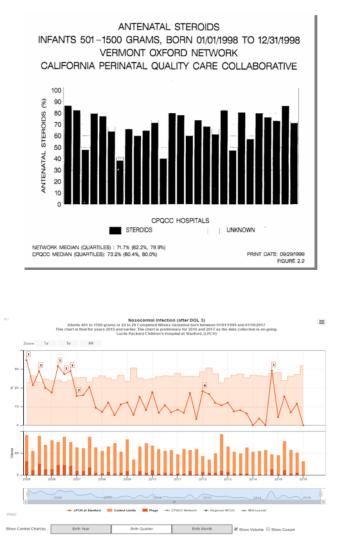


Data Committee Advisory Group

- Provide understanding of data elements and collection challenges
- Give feedback and consultation on new data items
- Participate in development and pilot new systems, e.g., online data entry system
- Provide training and peer support to new members



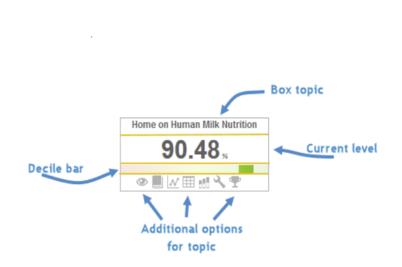
CPQCC's NICU Database Development

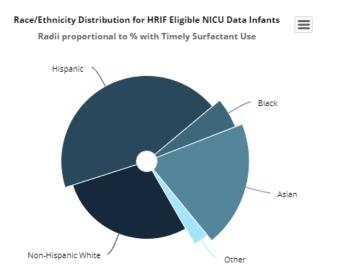


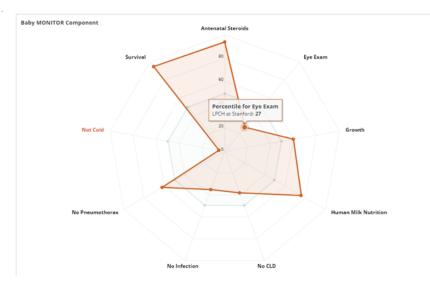
1998 VON < 1500 Grams
2000 High risk > 1500 Grams
2005 Paper to Online Entry +Real Time Reporting
2007 + Neonatal Transport
2008 Infants linked across NICUs
2009 Statewide High Risk Follow-up till age 3
2013 NICU based Follow-up reports
2016 Real-Time Control Charts
2018 Optional low risk infant database



New Resources: 2019-2020







NICU Dashboard

Health Equity Dashboard

Baby-MONITOR Report



Continuum of care structure – unique to California!



What about the Moms?

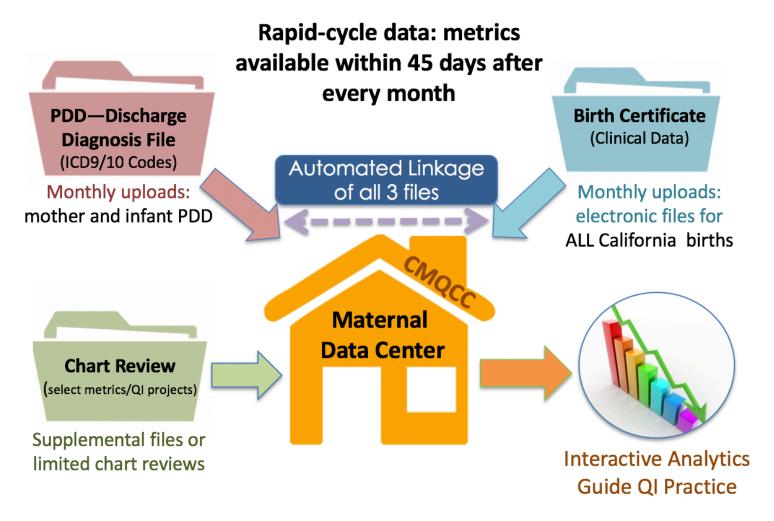
California Maternal Quality Care Collaborative (CMQCC)

Mission: Improving care for all California moms and newborns

- Established in 2006
- Real time maternal data analysis to drive quality improvement
- Develop and validate the effectiveness of QI toolkits
- Promote the adaption of maternal QI through education
- Design and conduct large scale QI based on a mentor approach



CMQCC Maternal Data Center



Links over 1,000,000 mother/baby records each year!

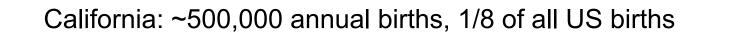


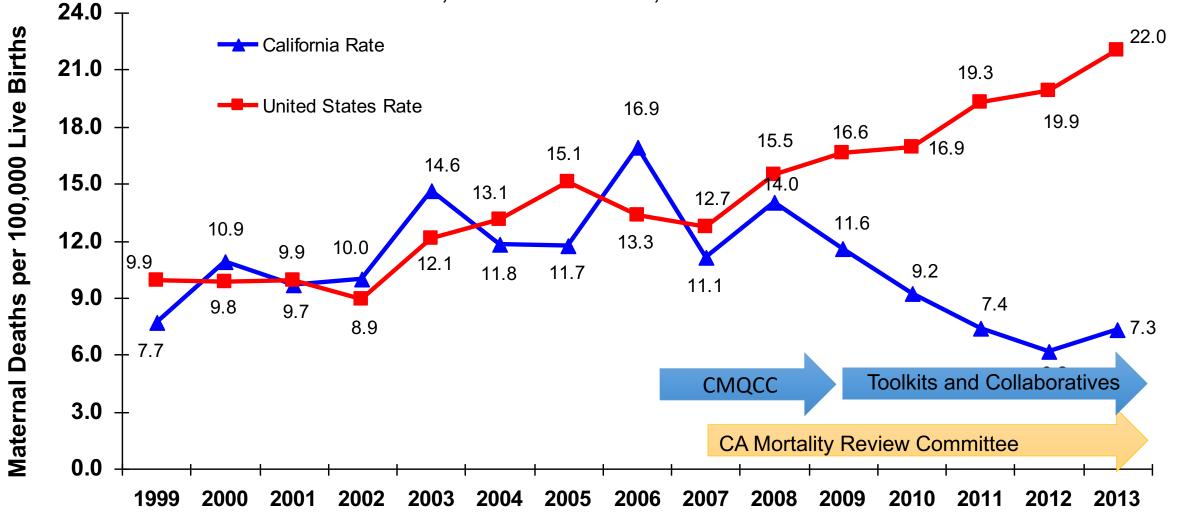
CMQCC Quality Improvement Activities

Year	QI Toolkits	Years	QI Collaboratives		
2010	Eliminating Early Elective Deliveries	2009-10	CMQCC Hemorrhage QI collaboratives I and II		
2010	Obstetric Hemorrhage	2010-11	CMQCC/CDPH Preeclampsia Task Force and QI collaborative		
2014	Preeclampsia				
2015	Obstetric Hemorrhage (2 nd Ed)	2011-14	HEN/CMQCC/CHA-HQI QI collaborative focused on hemorrhage and preeclampsia		
2016	Reducing Primary Cesarean Birth (CHCF funded)	2015-16	CMQCC/Merck for Mothers QI collaborative for hemorrhage and hypertension severe morbidity		
2017	Cardiovascular Disease	2016-19	CMQCC QI collaboratives (3 cohorts) for Supporting Vaginal Birth and Reducing Primary Cesarean Delivery		
2018	Venous Thromboembolism	2018	CMQCC QI Academies (new multi-hospital cohort every 6 months: QI science "work-study")		
2019	Maternal Sepsis (CMQCC funded)		CMQCC/CPQCC/HMA QI collaboratives (3 cohorts) for Mothers		
2020	Mother-Baby Substance Use (CA DHCS funded) – <i>joint with CPQCC</i>	2019	and Babies with Substance Use Disorder (focus on Opioids)		
2020	Birth Equity (CHCF funded)	2019	CMQCC Birth Equity QI collaborative (Pilot)		



Maternal Mortality Rate California and United States; 1999-2013





Assessing the care given our 7000 high risk neonatal transports



CORE CPETS ACUTE INTER-FACILITY- NEONATAL TRANSPORT FORM					
Referral					
C.1 Transport type 🗌 Requested Delivery Attendance 🔄 Emergent 🔄 Urgent 🔄 Scheduled 🔄 Other					
C.2 Indication Medical Services Surgery Insurance Bed Availability					
PATIENT IDENTIFICATION/HISTORY:					
C.3 Birth weight grams C.4 Gestational Ageweeks days	C.5 🗌 Male	E Female Unknown			
C.6 Prenatally Diagnosed Congenital Anomalies Yes No Unknown Describe:					
C.7 Maternal Gravida C.8 Steroids Yes No Unknown					
C.9 Surfactant Given Yes No Unknown Delivery Room Nursery					
TIME SEQUENCE	Date	Time			
C.10 Maternal Admission to Perinatal Unit or Labor & Delivery		at			
C.11 Last Antenatal Steroid Administration (last dose)		at			
C.12 Infant Birth		at			
C.13 Surfactant (first dose)		at			
C.14 Referral (and Referring Hospital Evaluation)		at			
C.14 Referral (and Referring Hospital Evaluation) C.15 Acceptance		at at			
C.15 Acceptance		at			
C.15 Acceptance C.16 Transport Team Departure from Transport Team Office/NICU for Referring Hospital		at at			



Acute Infant Transport Database (7K/yr)

2005 Focus Groups & Key Informants: Major Issues/ Examples of 2007 Indicators

- Underutilization of maternal transport
 - Percentage of births that were transferred
- Delayed decision to transport infant
 - Birth to initiation of transport interval
- Difficult to obtain transport
 - Initiation of transport to acceptance interval
- Too long a wait for the team to arrive
 - Acceptance to out the door time
- Team competency not always optimal
 - Arrival to completion change in clinical status



Continuum of care structure – unique to California!



What about our NICU graduates?





HRIF: Redesign / Database 2009 Visits: Number and Timing



- Provides for 3 "standard" or core visits
 - #1 4 8 months
 - #2 12 16 months
 - #3 18 36 months
 - Additional visits covered by CCS as determined to be needed by HRIF team
- There is **no financial eligibility requirement** for HRIF services if the patient is medically-eligible.



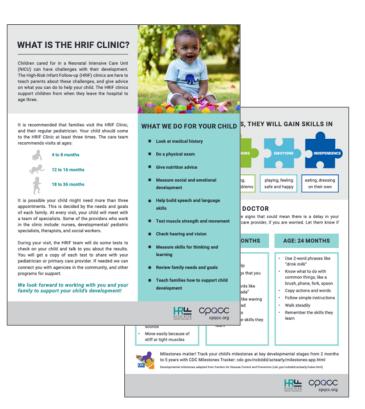


New Resources

Cardiac Pending Cases									
ardiac Clinic		Anderson Lucch	Anderson Lucchetti Women's And Children's Center View Pending Cases						
		View Pending Cas							
			Q	rdiac Patients Registered By Another	Jnit/Center				
Cardiac Patients Registered By Another Unit/Center - 3									
						Search:			
	HRIF ID# 14	Infant's Name	∿ DOB №	Referred On/By	14	Referred From	↑↓ Accept/Deny ↑↓		
	02271	last first	08-14-20	09-10-2019 at 12:38 PM by		Lucile Packard Children's Hospital At Stanford	00		
2	01101	last first	07-10-20	07-29-2019 at 11:44 AM by		Mercy San Juan Medical Center	00		
3	7969	last first	03-08-20	04-02-2019 at 09:31 AM by		Children's Hospital Los Angeles	00		
	a 1 to 3 of 3 e								

Registrat	ion Electronic Data Submission	1 Load Files
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Cardiac User & EDS Cardiac Referral Build

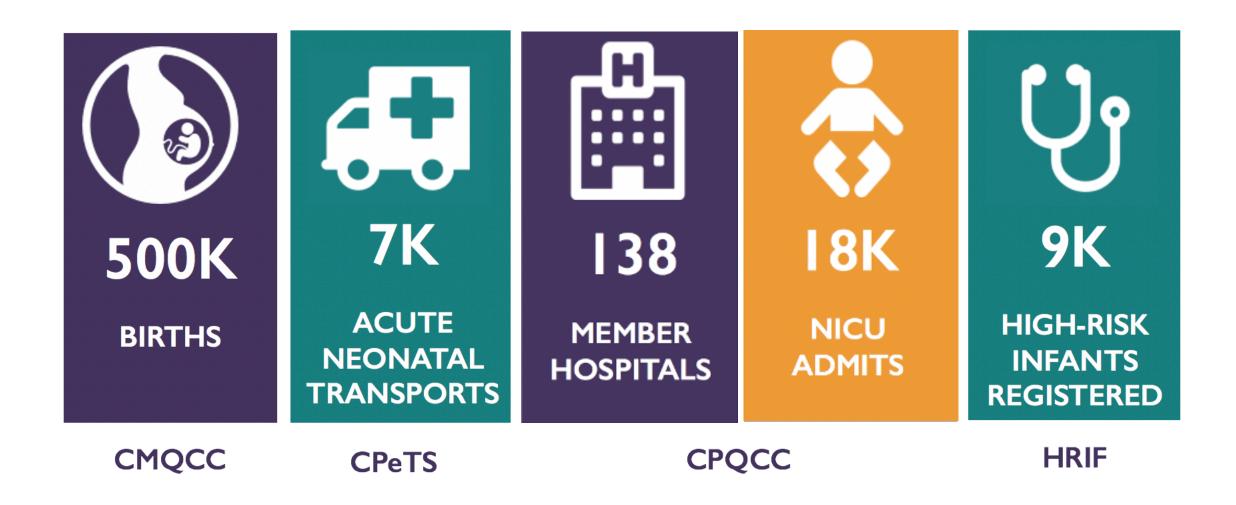


2759 30738 1876 arrent Registratio Error Cases Expected Cases By Adjusted Age 네 Activity By Month Total Expected Cases: 29298 and and a star a st Expected Not Seen-Closed
 SV 1
 SV 2
 SV 3 New Registrations
 New Referrals
 Closed Cases
 Graduated Cases Updated yesterday at 11:59 PM Updated yesterday at 11:59 PM 🗠 Visits By Month By Year Total Visits
 Additional Visits
 Standard Visit 1 Standard Visit 2 - Standard Visit | Updated yesterday at 11:59 PM

HRIF Family Handout HRIF Clinic Dashboard

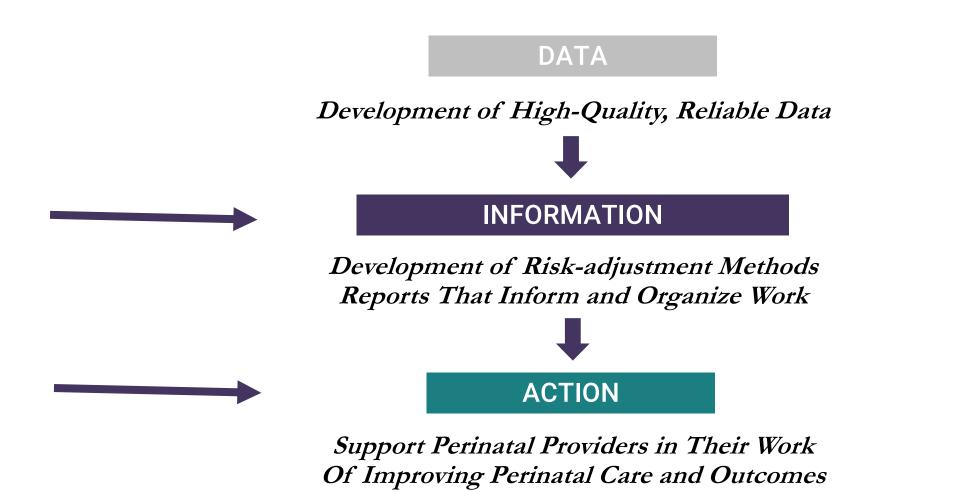


Annual Activity





Quality Improvement: The Challenge





Toolkits

- Antenatal Steroids(ANS)
- Care and Management of the Late Preterm Prevention of Perinatal HIV Toolkit Infant
- Delivery Room Management
- Early Screening and Identification of Candidates for Neonatal Therapeutic Hypothermia
- Hospital Acquired Infection
- Improving Initial Lung Function: Early CPAP, Surfactant and Other Means
- Nutritional Support of the VLBW Infant

- Postnatal Steroid Administration
- - Severe Hyperbilirubinemia Prevention
 - Neonatal Therapeutic Hypothermia
 - Neonatal Disaster Preparedness
 - **NEW** Mother and Baby Substance Exposure
 - **NEW** Primary Care for Preterm Infants and Children



Collaboratives

- CLABSI Reduction
- Breastmilk Nutrition
- Delivery Room Management
- Optimizing LOS
- Antibiotic Stewardship
- Grow, Babies, Grow (Growth and Nutrition)
- Simulating Success (Simulation/Neonatal Resuscitation)



New Resources

Videos on CPQCC.ORG

- Baby Monitor
- NICU Data Finalization, First Quarter

Maternal Substance Exposure (MatEx) Database

• Data collection tool for babies of substance-exposed mothers seen anywhere in your hospital



Member Led Initiatives

- Health Equity Taskforce
 - Subgroups on disparities: within NICUs, between NICUs, during transition to home
- Maternal Substance Exposure Workgroup
 - Collecting data on babies exposed to substance in-utero
- HRIF-CVICU Expansion Project
 - Locating HRIF-eligible cardiac patients and referring to follow-up care
- Children's Hospitals Workgroup
 - Recently released new reports on surgical patients available on NICU Reports
- Ten Point Nine Workgroup
 - Workgroup for NICUs with average daily census ≤ 10.9. Launched in March 2020.



Lots of activity but has it made a difference?



Our Impact

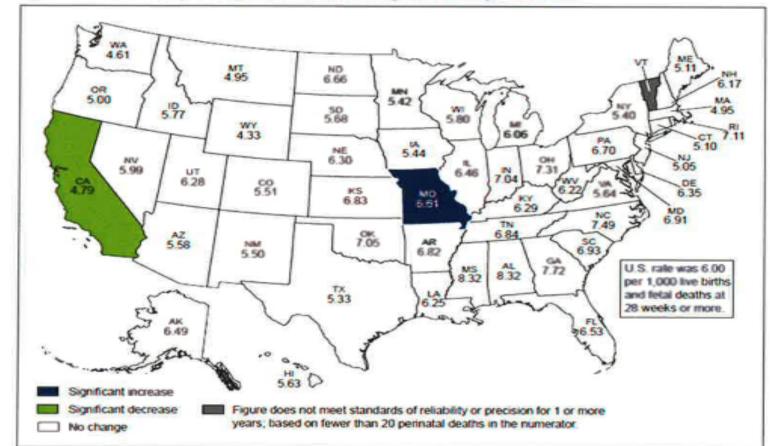
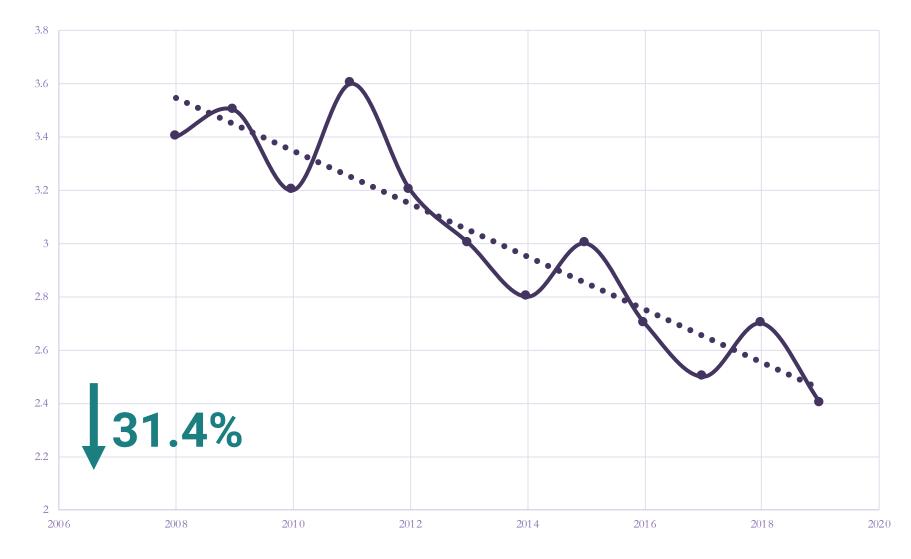


Figure 4. Perinatal mortality rates by state for 2016 and change in 2016 compared with 2014

NOTES: Rate per 1,000 live births and fetal deaths at 28 weeks or more. Significant increase or decrease at p < 0.05. Access data table for Figure 4 at https://www.odc.gov/nchs/data/databriefs/db310_table.pdf#4. SOURCE: NCHS, National Vital Statistics System.

CDC report shows California as the *only state to significantly decrease perinatal mortality* between 2014 to 2016.

Mortality (>1500 G)





% Improvement

GA 22-29 weeks, 2008-2017

- NEC
- Nosocomial infection
- Severe ROP
- sIVH
- Infant death
- Cystic PVL
- Chronic lung disease

- **5.9%** → **3.2%**
- **15.4%** → **8.5%**
- **10.3%** → **6.6%**
- **9.4 %** → **7.5%**
- **9.8%** → **8.3%**
- 2.5% Stable
- 20.6% Stable





Our Mission : Optimize the Health and Outcomes of California's pregnant women and their infants



Thanks for all of your hard work in making it happen!



CPQCC Team



california perinatal quality care collaborative



281069









california perinatal quality care collaborative



2021 Quality Improvement Collaboratives

Courtney Breault, RN, MS



2021 Quality Improvement Opportunities

Optimizing Antibiotic Stewardship in California NICUs (OASCN) COLLABORATIVE GOAL



SAFELY REDUCE ANTIBIOTIC USE RATES in participating NICUs for infants of all gestational ages.

January 2021

Growth Advancement in the NICU (GAIN): Ten Point Nine COLLABORATIVE GOAL



IMPROVE GROWTH AND NUTRITION for infants > 1500 grams in participating NICUs with an average daily census of \leq 10.9. Growth Advancement in the NICU (GAIN): Surgical Patients COLLABORATIVE GOAL



IMPROVE GROWTH AND NUTRITION for infants who have had intestinal surgeries in participating NICUs.

July 2021

NICUs Enabaling Optimal Brain Health (NEOBrain) COLLABORATIVE GOAL



for VLBWs in participating NICUs.

Fall 2021

california perinatal quality care collaborative

July 2021



Optimizing Antibiotic Stewardship in California NICUs (OASCN)

Optimizing Antibiotic Stewardship in California NICUs (OASCN) COLLABORATIVE GOAL



SAFELY REDUCE ANTIBIOTIC USE RATES in participating NICUs for infants of all gestational ages.

- Launch: January 2021
- **Recruitment:** Underway, 27/30 spots filled
- **Goal:** Safely reduce antibiotic use rate (AUR) for infants of all gestational ages in participating NICUs
- **Target population:** All gestational ages
- Eligible NICUs: All CPQCC NICUs
- Fee: Free (\$500/site if seeking ABP MOC credit)
- For more info: Email Janine Bergin at janine@cpqcc.org

california perinatal quality care collaborative



Growth Advancement in the NICU (GAIN): Ten Point Nine

Growth Advancement in the NICU (GAIN): Ten Point Nine COLLABORATIVE GOAL



IMPROVE GROWTH AND NUTRITION for infants > 1500 grams in participating NICUs with an average daily census of \leq 10.9.

- Launch: July 2021
- **Registration:** January March 2021
- **Goal:** Improve growth and nutrition for infants > 1500 grams in participating NICUs
- **Target population:** Infants > 1500 grams
- Eligible NICUs: CPQCC NICUs with ADC ≤ 10.9
- **Fee:** \$5,000
- For more info: Email Anjali Chowfla at anjali@cpqcc.org



Growth Advancement in the NICU (GAIN): Surgical Patients

Growth Advancement in the NICU (GAIN): Surgical Patients COLLABORATIVE GOAL



IMPROVE GROWTH AND NUTRITION for infants who have had intestinal surgeries in participating NICUs.

- Launch: July 2021
- **Registration:** January March 2021
- **Goal:** Improve growth and nutrition for infants who have had intestinal surgeries
- **Target population:** Infants with intestinal surgeries
- Eligible NICUs: CPQCC NICUs that take care of surgical patients
- **Fee:** \$6,800
- For more info: Email Caroline Toney-Noland at <u>ctn@stanford.edu</u>



NICUs Enabling Optimal Brain Health (NEOBrain)

NICUs Enabaling Optimal Brain Health (NEOBrain) COLLABORATIVE GOAL



PROMOTE NEUROPROTECTIVE CARE for VLBWs in participating NICUs.

- Launch: Fall 2021
- Recruitment: TBD
- **Goal:** Promote neuroprotective care for VLBWs in participating NICUs
- Target population: VLBWs
- Eligible NICUs: All CPQCC NICUs
- Fee: \$8,500
- For more info: Email Courtney Breault at courtney@cpqcc.org

california perinatal quality care collaborative



Q&A Session



Panelists

- Jeffrey Gould Chief Executive Officer
- **Courtney Breault** Associate Director of Quality
- Fulani Davis Program Manager, NICU Data Center
- Janella Parucha Program Manager, NICU Data Center
- Erika Gray Program Manager, HRIF



Closing



Recording and Webinar Evaluation

- An email will be sent out after the webinar with a link to:
 - The slides and webinar recording
 - An evaluation survey
- The webinar recording and slides will also be posted at: <u>https://www.cpqcc.org/engage/annual-data-training-webinars-2020</u>



Upcoming Data Training Webinars



https://www.cpqcc.org/engage/annual-data-training-webinars-2020



