



What's New with CPeTS

October 6, 2021

Webinar Logistics

- Attendees are automatically muted upon entry
- If you attend as a team, please create a sign in sheet and share it with info@cpqcc.org to be eligible for contact hours/CEU's
- 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-2021>
- Attendees will be eligible for contact hours through the Perinatal Advisory Council: Leadership, Advocacy, and Consultation (PAC/LAC) . This webinar series is being jointly provided by CPQCC and PAC/LAC. PAC/LAC is an approved provider by the California Board of Registered Nursing, Provider number CEP 5862.

CPETS: CALIFORNIA PERINATAL TRANSPORT SYSTEMS

What's New in The Neonatal Transport Data Program, 2022

Presented by:

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- Lucy Van Otterloo, PhD, RNC
 - Executive Director: Community Perinatal Network
- Ron Cohen, MD
 - Medical Director: Northern California Perinatal Transport System

CONFLICT OF INTEREST

- We have no conflicts of interest to disclose.
- We will not be making any recommendations on medications, devices or equipment in this lecture.

OBJECTIVES

Following the presentation and discussion the participant will be able to:

- Describe California's acute neonatal transport dataset;
- Describe maternal/fetal vs. neonatal transport data and describe best practices in implementing data collection for this topic;
- Describe changes in the CPeTS Database for the 2022 Data Year
- Understand how to use standard reports for CPeTS data and identify areas of improvement opportunity.

CALIFORNIA PERINATAL TRANSPORT SYSTEM

Legislatively mandated by AB 4439 in 1976, required by California Perinatal Quality Care Collaborative (CPQCC), California Children's Services (CCS) and California Department of Public Health(CDPH), managed by Regional Perinatal Programs of California (RPPC).

- Bed Availability and Direct Referral Information
- Neonatal Data System
 - Collection and Entry
 - Standardized Reports
 - Transports In
 - Transports Out
 - Tools and Support Materials
- Maternal Transport Data System Development

QUALITY CALIFORNIA NEONATAL TRANSPORT DATA BASE

- Developed during 2005-2006
- First full year of data – 2007
- All CCS designated NICUs in California plus any facilities with licensed Intensive Care Neonatal Nursery who chooses to participate.
- Prospective clinical data collected from
 - 5,000 to 7,000 **acute** neonatal transports annually
 - ~82,000 acute transports in dataset
 - Within the first 28 days of life, into NICU services, transported by a team
 - Received by more than 100 NICUs in California
 - 51 transport teams



CHANGES FOR 2022



CHANGES IN CPETS DATA COLLECTION FOR 2022



CORE CPETS ACUTE INTER-FACILITY NEONATAL TRANSPORT FORM - 2022

PATIENT DIAGNOSIS				Special Situations: ☐ None ☐ Delivery Attendance ☐ Transport by Sending Facility ☐ Transport from ER ☐ Safe Sur.			
C.1 Transport type ☐ Delivery ☐ Emergent ☐ Urgent ☐ Scheduled				C.2 Indication ☐ Medical ☐ Surgical ☐ Bed Availability/Insurance			
CRITICAL BACKGROUND INFORMATION							
C.3 Birth weight		grams		C.4 Gestational Age		weeks days	
				C.5		☐ Male ☐ Female ☐ Undetermined ☐ Unknown	
C.6 Prenatally Diagnosed Congenital Anomalies ☐ Yes ☐ No ☐ Unknown Describe:				C.7 Maternal Date of Birth ☐ Unknown			
C.8a. Antenatal Steroids ☐ Yes ☐ No ☐ Unknown ☐ N/A				C.8b. Antenatal Magnesium Sulfate ☐ Yes ☐ No ☐ Unknown			
TIME SEQUENCE				Date		Time	
C.10. Maternal Admission to Perinatal Unit or Labor & Delivery							
C.11. Infant Birth							
C.12 Maternal/fetal transport not done due to: ☐ Advanced Labor ☐ Bleeding ☐ Mother Medically Unstable ☐ Non-Reassuring Fetal Status							
☐ Not Considered ☐ Unknown							
C.9/13 Surfactant (first dose) ☐ Delivery Room ☐ Nursery ☐ N/A ☐ Unknown							
C.14. Referral							
C.15. Acceptance							
C.16 Transport Team Departure from Transport Team Office/NICU for Sending Hospital							
C.17 Arrival of Team at Sending Hospital/Patient Bedside							
C.18 Initial Transport Team Evaluation							
C.19 Arrival at Receiving NICU							
INFANT CONDITION				REFERRAL PROCESS			
Modified TRIPS Score: to be recorded on referral, within 15 minutes of arrival at sending hospital and admit to NICU.				C.30 Sending Hospital Name			
				Previous CPQCC ID#			
				Sending Hospital Nursing Contact Information Name/Telephone			
C.20 Responsiveness				Referral	Initial Transport	NICU Admit	C.31a Previously Transported? ☐ Yes ☐ No
C.21 Temperature C°							C.31b From:
C.21.a. Too low to register ☐ Yes ☐ No				☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	C.32 Birth Hospital Name
C.21.b. Was the infant cooled? ☐ Y ☐ N				☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	C.33 Transport Team On-Site Leader (check only one)
C.21.c. Method of cooling +							☐ Sub-specialist Physician ☐ Pediatrician ☐ Other MD/Resident
C.22 Heart Rate							☐ Neonatal Nurse Practitioner ☐ Transport Specialist ☐ Nurse
C.23 Respiratory Rate							C.34a Team From ☐ Receiving Hospital ☐ Sending Hospital
C.24 Oxygen Saturation							☐ Contract Service
C.25 Respiratory Status *							C.34b Describe (name of Contract Service):
C.26 Inspired Oxygen Concentration							C.35 Mode ☐ Ground ☐ Helicopter ☐ Fixed Wing
C.27 Respiratory Support							Transport Team Informant Names/Telephone Numbers
C.28 Blood Pressure Systolic / Diastolic Mean							Comments
N=Not Done, T=Too low to register				☐ N ☐ T	☐ N ☐ T	☐ N ☐ T	
C.29 Pressors				☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
Additional Information for CPQCC Admit and Discharge Form Only							
Birth Head Circumference cm				Labor Type ☐ Spontaneous ☐ Induced ☐ Unknown Rupture of Membranes >18 hours ☐ Yes ☐ No ☐ Unknown			
Delivery Mode ☐ Spontaneous Vaginal ☐ Operative Vaginal ☐ Cesarean ☐ Unknown							
Delayed Cord Clamping ☐ Yes ☐ 30-60 sec ☐ 61-120 sec ☐ >120 sec ☐ No ☐ Maternal Bleeding ☐ Neonatal Causes ☐ Other ☐ Unknown							
Breathing before Clamped ☐ Yes ☐ No ☐ Unknown Cord milking performed ☐ Yes ☐ No ☐ Unknown							
Death ☐ No ☐ Yes ☐ Prior to Team Arrival ☐ Prior to Departure from Sending Hospital ☐ Prior to Arrival at Receiving NICU							
○ Responsiveness: 0=Death 1=None, Seizure, Muscle Relaxant, 2=Lethargic, no cry 3=Vigorously withdraws, cry + Method of cooling: Passive, Whole Body, Other, Unknown * Respiratory Status: 1=Ventilator, 2= Severe (apnea, gasping) 3=Other 9= Unknown Respiratory Rate: High Frequency Ventilation = 400 Respiratory Support: 0 = None, 1 = Hood/Nasal Cannula, Blowby 2 = Nasal Continuous Positive Airway Pressure 3 = Non-Invasive Ventilation (NIPPV / NIMV) Note: This includes Nasal prongs and masks 4 = Oral/Nasal Endotracheal Tube 9= Unknown							

INFANT CONDITION				REFERRAL PROCESS
Modified TRIPS Score: to be recorded on referral, within 15 minutes of arrival at sending hospital and admit to NICU.				C.30 Sending Hospital Name
				Previous CPQCC ID#
	Referral	Initial Transport	NICU Admit	Sending Hospital Nursing Contact Information Name/Telephone
C.20 Responsiveness				C.31a Previously Transported? ☐ Yes ☐ No
				C.31b From:
C.21 Temperature C°				C.32 Birth Hospital Name
C.21.a. Too low to register	☐ Yes	☐ Yes	☐ Yes	C.33 Transport Team On-Site Leader (check only one)
C.21.b. Was the infant cooled?	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Sub-specialist Physician ☐ Pediatrician ☐ Other MD/Resident
C.21.c. Method of cooling+				☐ Neonatal Nurse Practitioner ☐ Transport Specialist ☐ Nurse
C.22 Heart Rate				C.34a Team From ☐ Receiving Hospital ☐ Sending Hospital
C.23 Respiratory Rate				☐ Contract Service
C.24 Oxygen Saturation				C.34b Describe (name of Contract Service):
C.25 Respiratory Status *				C.35 Mode ☐ Ground ☐ Helicopter ☐ Fixed Wing
C.26 Inspired Oxygen Concentration				Transport Team Informant Names/Telephone Numbers
C.27 Respiratory Support				
C.28 Blood Pressure				Comments
Systolic				
Diastolic				
Mean				
N=Not Done, T=Too low to register	☐ N ☐ T	☐ N ☐ T	☐ N ☐ T	
C.29 Pressors	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
Additional Information for CPQCC Admit and Discharge Form Only				
Birth Head Circumference cm Labor Type ☐ Spontaneous ☐ Induced ☐ Unknown Rupture of Membranes >18 hours ☐ Yes ☐ No ☐ Unknown				
Delivery Mode ☐ Spontaneous Vaginal ☐ Operative Vaginal ☐ Cesarean ☐ Unknown				
Delayed Cord Clamping ☐ Yes ☐ 30-60 sec ☐ 61-120 sec ☐ >120 sec ☐ No ☐ Maternal Bleeding ☐ Neonatal Causes ☐ Other ☐ Unknown				
Breathing before Clamped ☐ Yes ☐ No ☐ Unknown Cord milking performed ☐ Yes ☐ No ☐ Unknown				
Death ☐ No ☐ Yes ☐ Prior to Team Arrival ☐ Prior to Departure from Sending Hospital ☐ Prior to Arrival at Receiving NICU				
⊗ Responsiveness: 0=Death 1=None, Seizure, Muscle Relaxant, 2=Lethargic, no cry 3=Vigorously withdraws, cry + Method of cooling: Passive, Whole Body, Other, Unknown * Respiratory Status: 1=Ventilator, 2= Severe (apnea, gasping) 3=Other 9= Unknown Respiratory Rate: High Frequency Ventilation = 400 ⊗ Respiratory Support: 0 = None, 1 = Hood/Nasal Cannula, Blowby 2 = Nasal Continuous Positive Airway Pressure 3 = Non-Invasive Ventilation (NIPPV / NIMV) Note: This includes Nasal prongs and masks 4 = Oral/Nasal Endotracheal Tube 9= Unknown				

INFANT CONDITIONS/TRIPS

C.27 Respiratory Support

Changed

- Nasal Ventilation (NIPPV/NIMV)
- to -
- Non-Invasive Ventilation (NIPPV/NIMV) Note: This includes Nasal Prongs and masks



UPDATE ON MATERNAL/FETAL TRANSPORT DATA (C.12)



MATERNAL/FETAL TRANSPORTS (C.12)

PRENATAL DX ANOMALY OR < 32 WK GESTATION

Maternal/Fetal Transport Consideration (add.2020)				
T_MFTRANSCON	Frequency	Percent	Cumulative Frequency	Cumulative Percent
.	7	18.42	7	18.42
Advanced Labor	2	5.26	9	23.68
Mother Medically Unstable	3	7.89	12	31.58
Non-Reassuring Fetal Status	1	2.63	13	34.21
Not Considered	25	65.79	38	100.00

Of 38 cases, only 6 had documented contraindication for Antepartum Transport.

MATERNAL/FETAL TRANSPORTS (C.12)

PRENATAL DX ANOMALY OR < 1500 GM BIRTHWEIGHT

Maternal/Fetal Transport Consideration (add.2020)				
T_MFTRANSCON	Frequency	Percent	Cumulative Frequency	Cumulative Percent
.	14	30.43	14	30.43
Advanced Labor	2	4.35	16	34.78
Mother Medically Unstable	3	6.52	19	41.30
Non-Reassuring Fetal Status	2	4.35	21	45.65
Not Considered	25	54.35	46	100.00

Of 46 cases, only 7 had documented contraindication for Antepartum Transport.



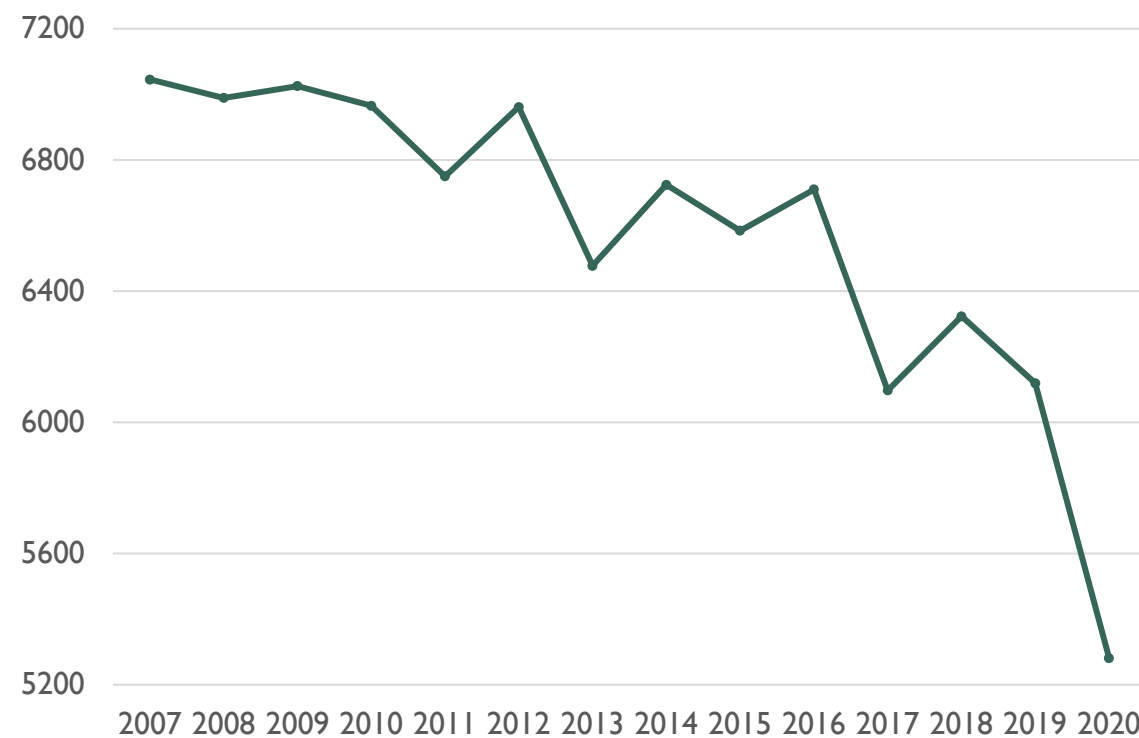
CALIFORNIA ACUTE NEONATAL TRANSPORT ACTIVITY, 2020



QUALITY CALIFORNIA NEONATAL TRANSPORT DATA

Year	Total Transports	Unknowns	Number of Entries per Record
2020	5,281	1.1	2.2
2019	6,119	1.3	1.2
2018	6,323	1.3	1.2
2017	6,097	1.2	1.3
2016	6,710	1.3	1.7
2015	6,584	1.4	1.9
2014	6,724	2.5	1.9
2013	6,477	1.6	1.9
2012	6,961	1.4	2.3
2011	6,750	1.6	2.7
2010	6,965	1.9	3.3
2009	7,025	2.1	3.6
2008	6,989	2.6	35
2007	7,045	4.9	4.0

Total Transports



CALIFORNIA ACUTE TRANSPORT ACTIVITY BY FACILITY, 2020

- Total Acute Transports 5,281
- 144 member facilities
- 82 facilities reporting acute transports
- Average 66
- Transport Volume
 - 28 facilities with ≤ 10 acute transports/year,

ACUTE NEONATAL TRANSPORTS IN (PRIMARY AND SECONDARY)*, 2020 (COLUMN #/%)

	CPQCC Network Total	CPQCC Regional NICUs	CPQCC Community NICUs	CPQCC Intermediate / Others
All Birth Weights	5,281	3,910	1,361	10
≤ 500 grams	13 / 0.2%	13 / 0.3%	0	0
501-750 grams	116 / 2.2%	90 / 2.3%	26 / 1.9%	0
751 – 1,000 grams	127 / 2.4%	97 / 2.5%	30 / 2.2%	0
1,001-1,500 grams	318 / 6.0%	236 / 6.0%	82 / 6.0%	0
1,501-2,500 grams	1,168 / 22.1%	820 / 21.0%	346 / 25.4%	2
> 2,500 grams	3,539 / 67.0%	2,654 / 67.9%	877 / 64.4%	8

SO FAR IN 2021, 2791 ACUTE NEONATAL TRANSPORTS HAVE BEEN REPORTED.

Acute Neonatal Transports (Primary and Secondary)*, by Birthweight Category, California, 2021

VLBW (<1,500 grams)	344 / 12.3%
LBW ($\geq$ 1,500 grams to 2,499 grams)	630 / 22.6%
Appropriate Birth Weight ($\geq$ 2,500 grams)	1,817 / 65.1%



UTILIZING THE DATA FOR QUALITY IMPROVEMENT



ACUTE TRANSPORTS, BY BIRTH WEIGHT

Birth Weight (grams)	Center		CPQCC Network		Regional NICUs	
	N	%	N	%	N	%
All Birth Weights	48	100	5,281	100	3,910	100
500 or less	1	2.1	13	0.2	13	0.3
501 to 750	1	2.1	116	2.2	90	2.3
751 to 1,000	1	2.1	127	2.4	97	2.5
1,001 to 1,500	5	10.4	318	6.0	236	6.0
1,501 to 2,500	13	27.1	1,168	22.1	820	21.0
over 2,500	27	56.3	3,539	67.0	2,654	67.9

Birth Weight (grams)	Center		CPQCC Network		Community NICUs	
	N	%	N	%	N	%
All Birth Weights	57	100	5,281	100	1,361	100
500 or less	0	0.0	13	0.2	0	0.0
501 to 750	1	1.8	116	2.2	26	1.9
751 to 1,000	0	0.0	127	2.4	30	2.2
1,001 to 1,500	4	7.0	318	6.0	82	6.0
1,501 to 2,500	28	49.1	1,168	22.1	346	25.4
over 2,500	24	42.1	3,539	67.0	877	64.4

ACUTE TRANSPORT IN BY TRANSPORT TYPE AND BIRTH WEIGHT

Birth Weight (grams)	Center					CPQCC Network				Regional NICUs			
	N	DR	Emer gent	Urgent	Sche duled	DR	Emer gent	Urgent	Sche duled	DR	Emer gent	Urgent	Sche duled
All Birth Weights	48	18.8	22.9	39.6	18.8	8.2	41.7	41.7	8.2	9.3	46.2	35.2	9.2
500 or less	1	0.0	0.0	0.0	100	0.0	53.8	23.1	23.1	0.0	53.8	23.1	23.1
501 to 750	1	0.0	0.0	0.0	100	17.2	44.8	26.7	11.2	16.7	47.8	22.2	13.3
751 to 1,000	1	100	0.0	0.0	0.0	26.0	34.6	32.3	7.1	26.8	36.1	27.8	9.3
1,001 to 1,500	5	40.0	20.0	40.0	0.0	22.3	36.2	33.6	6.9	25.0	38.6	30.5	5.1
1,501 to 2,500	13	46.2	7.7	38.5	7.7	16.9	36.9	38.4	7.9	19.4	41.3	30.7	8.5
over 2,500	27	0.0	33.3	44.4	22.2	3.2	43.9	44.4	8.3	4.0	48.6	37.8	9.6

Birth Weight (grams)	Center					CPQCC Network				Community NICUs			
	N	DR	Emer gent	Urgent	Sche duled	DR	Emer gent	Urgent	Sche duled	DR	Emer gent	Urgent	Sche duled
All Birth Weights	57	7.0	19.3	57.9	15.8	8.2	41.7	41.7	8.2	5.1	29.2	60.0	5.1
500 or less	0	NA	NA	NA	NA	0.0	53.8	23.1	23.1	NA	NA	NA	NA
501 to 750	1	0.0	100	0.0	0.0	17.2	44.8	26.7	11.2	19.2	34.6	42.3	3.8
751 to 1,000	0	NA	NA	NA	NA	26.0	34.6	32.3	7.1	23.3	30.0	46.7	0.0
1,001 to 1,500	4	25.0	50.0	25.0	0.0	22.3	36.2	33.6	6.9	14.6	29.3	42.7	12.2
1,501 to 2,500	28	10.7	21.4	53.6	14.3	16.9	36.9	38.4	7.9	11.0	26.6	56.1	6.4
over 2,500	24	0.0	8.3	70.8	20.8	3.2	43.9	44.4	8.3	0.8	30.1	64.2	4.2

ACUTE TRANSPORT BY TRANSPORT PROVIDER AND BIRTH WEIGHT

Birth Weight (grams)	Center				CPQCC Network			Regional NICUs		
	N	Receiving Hospital	Contract Service	Referring Hospital	Receiving Hospital	Contract Service	Referring Hospital	Receiving Hospital	Contract Service	Referring Hospital
All Birth Weights	48	100	0.0	0.0	83.4	12.4	4.2	87.0	7.6	5.4
500 or less	1	100	0.0	0.0	92.3	0.0	7.7	92.3	0.0	7.7
501 to 750	1	100	0.0	0.0	82.8	16.4	0.9	87.8	11.1	1.1
751 to 1,000	1	100	0.0	0.0	81.1	17.3	1.6	89.7	8.2	2.1
1,001 to 1,500	5	100	0.0	0.0	84.3	12.3	3.5	87.3	8.1	4.7
1,501 to 2,500	13	100	0.0	0.0	84.2	12.5	3.3	87.7	7.7	4.6
over 2,500	27	100	0.0	0.0	83.1	12.1	4.8	86.5	7.5	6.0

Birth Weight (grams)	Center				CPQCC Network			Community NICUs		
	N	Receiving Hospital	Contract Service	Referring Hospital	Receiving Hospital	Contract Service	Referring Hospital	Receiving Hospital	Contract Service	Referring Hospital
All Birth Weights	57	100	0.0	0.0	83.4	12.4	4.2	73.2	25.9	1.0
500 or less	0	NA	NA	NA	92.3	0.0	7.7	NA	NA	NA
501 to 750	1	100	0.0	0.0	82.8	16.4	0.9	65.4	34.6	0.0
751 to 1,000	0	NA	NA	NA	81.1	17.3	1.6	53.3	46.7	0.0
1,001 to 1,500	4	100	0.0	0.0	84.3	12.3	3.5	75.6	24.4	0.0
1,501 to 2,500	28	100	0.0	0.0	84.2	12.5	3.3	76.0	24.0	0.0
over 2,500	24	100	0.0	0.0	83.1	12.1	4.8	72.7	25.8	1.5

ACUTE TRANSPORT BY TRANSPORT MODE AND BIRTH WEIGHT

Birth Weight (grams)	Center				CPQCC Network			Regional NICUs		
	N	Ground	Heli copter	Fixed Wing	Ground	Heli copter	Fixed Wing	Ground	Heli copter	Fixed Wing
All Birth Weights	48	100	0.0	0.0	85.4	12.4	2.1	82.9	14.4	2.7
500 or less	1	100	0.0	0.0	76.9	23.1	0.0	76.9	23.1	0.0
501 to 750	1	100	0.0	0.0	81.9	18.1	0.0	78.9	21.1	0.0
751 to 1,000	1	100	0.0	0.0	89.0	10.2	0.8	86.6	12.4	1.0
1,001 to 1,500	5	100	0.0	0.0	83.6	15.1	1.3	80.1	18.2	1.7
1,501 to 2,500	13	100	0.0	0.0	86.8	10.9	2.3	84.4	12.6	3.0
over 2,500	27	100	0.0	0.0	85.2	12.6	2.3	82.7	14.5	2.8

Birth Weight (grams)	Center				CPQCC Network			Community NICUs		
	N	Ground	Heli copter	Fixed Wing	Ground	Heli copter	Fixed Wing	Ground	Heli copter	Fixed Wing
All Birth Weights	57	100	0.0	0.0	85.4	12.4	2.1	92.6	6.8	0.6
500 or less	0	NA	NA	NA	76.9	23.1	0.0	NA	NA	NA
501 to 750	1	100	0.0	0.0	81.9	18.1	0.0	92.3	7.7	0.0
751 to 1,000	0	NA	NA	NA	89.0	10.2	0.8	96.7	3.3	0.0
1,001 to 1,500	4	100	0.0	0.0	83.6	15.1	1.3	93.9	6.1	0.0
1,501 to 2,500	28	100	0.0	0.0	86.8	10.9	2.3	92.5	6.9	0.6
over 2,500	24	100	0.0	0.0	85.2	12.6	2.3	92.4	7.0	0.7

TIME FROM REFERRAL TO INITIAL EVALUATION, EMERGENT TRANSPORTS ONLY

Time Difference	Center		CPQCC Network %	Regional NICUs %
	N	%		
All Infants Transferred In	11	100	100	100
Up to 30 minutes	0	0.0	5.8	6.8
31 - 60 minutes	0	0.0	15.6	15.4
61 - 90 minutes	6	54.5	25.7	26.2
91 - 120 minutes	4	36.4	23.8	22.9
>2 - 4 hours	1	9.1	23.6	23.1
>4 - 8 hours	0	0.0	4.0	4.1
>8 hours	0	0.0	1.5	1.5

Mean	1H 32M	2H 18M	2H 20M
Median	1H 30M	1H 35M	1H 33M

Time Difference	Center		CPQCC Network %	Community NICUs %
	N	%		
All Infants Transferred In	11	100	100	100
Up to 30 minutes	0	0.0	5.8	1.6
31 - 60 minutes	1	9.1	15.6	16.1
61 - 90 minutes	3	27.3	25.7	23.6
91 - 120 minutes	2	18.2	23.8	27.7
>2 - 4 hours	4	36.4	23.6	25.9
>4 - 8 hours	0	0.0	4.0	3.9
>8 hours	1	9.1	1.5	1.3

Mean	2H 54M	2H 18M	2H 10M
Median	1H 58M	1H 35M	1H 40M

TIME FROM ACCEPTANCE TO TEAM DEPARTURE, EMERGENT TRANSPORTS ONLY

Time Difference	Center		CPQCC Network %	Regional NICUs %
	N	%		
All Infants Transferred In	11	100	100	100
Up to 30 minutes	7	63.6	42.9	44.4
31 - 60 minutes	4	36.4	37.9	38.0
1 - 2 hours	0	0.0	13.2	11.6
2 - 4 hours	0	0.0	3.5	3.3
4 - 8 hours	0	0.0	2.0	2.2
> 8 hours	0	0.0	0.5	0.5

Mean	31M	54M	53M
Median	30M	35M	34M

Time Difference	Center		CPQCC Network %	Community NICUs %
	N	%		
All Infants Transferred In	11	100	100	100
Up to 30 minutes	2	18.2	42.9	36.2
31 - 60 minutes	5	45.5	37.9	37.8
1 - 2 hours	3	27.3	13.2	20.1
2 - 4 hours	1	9.1	3.5	4.7
4 - 8 hours	0	0.0	2.0	1.0
> 8 hours	0	0.0	0.5	0.3

Mean	59M	54M	1H 2M
Median	39M	35M	41M

TIME FROM DEPARTURE FOR REFERRING HOSPITAL TO INITIAL EVALUATION

Time Difference	Center		CPQCC Network %	Regional NICUs %
	N	%		
All Infants Transferred In	48	100	100	100
Up to 30 minutes	9	18.8	27.5	29.3
31 - 60 minutes	25	52.1	40.4	37.5
1 - 2 hours	14	29.2	27.3	28.0
2 - 4 hours	0	0.0	4.3	4.8
4 - 8 hours	0	0.0	0.3	0.4
> 8 hours	0	0.0	0.1	0.1

Mean	54M	54M	54M
Median	53M	45M	45M

Time Difference	Center		CPQCC Network %	Community NICUs %
	N	%		
All Infants Transferred In	57	100	100	100
Up to 30 minutes	23	40.4	27.5	22.9
31 - 60 minutes	32	56.1	40.4	48.2
1 - 2 hours	1	1.8	27.3	25.3
2 - 4 hours	1	1.8	4.3	3.2
4 - 8 hours	0	0.0	0.3	0.1
> 8 hours	0	0.0	0.1	0.1

Mean	34M	54M	54M
Median	34M	45M	45M

TIME FROM DEPARTURE FOR REFERRING HOSPITAL TO NICU ADMISSION

Time Difference	Center		CPQCC Network %	Regional NICUs %
	N	%		
All Infants Transferred In	48	100	100	100
Up to 30 minutes	0	0.0	2.8	3.7
31 - 60 minutes	0	0.0	6.8	8.7
1 - 2 hours	13	27.1	28.9	28.5
2 - 4 hours	31	64.6	47.9	44.3
4 - 8 hours	4	8.3	12.8	14.1
> 8 hours	0	0.0	0.7	0.7

Mean	2H 31M	2H 49M	2H 51M
Median	2H 30M	2H 20M	2H 20M

Time Difference	Center		CPQCC Network %	Community NICUs %
	N	%		
All Infants Transferred In	57	100	100	100
Up to 30 minutes	0	0.0	2.8	0.4
31 - 60 minutes	6	10.5	6.8	1.6
1 - 2 hours	41	71.9	28.9	30.1
2 - 4 hours	10	17.5	47.9	57.6
4 - 8 hours	0	0.0	12.8	9.6
> 8 hours	0	0.0	0.7	0.7

Mean	1H 44M	2H 49M	2H 43M
Median	1H 45M	2H 20M	2H 21M

TRIPS SCORE

INFANT CONDITION			
Modified TRIPS Score: to be recorded on referral, within 15 minutes of arrival at sending hospital and admit to NICU.			
	Referral	Initial Transport	NICU Admit
C.20 Responsiveness			
C.21 Temperature C°			
C. 21.a. Too low to register	☐ Yes	☐ Yes	☐ Yes
C.21.b. Was the infant cooled?	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
C.21.c. Method of cooling			
C.22 Heart Rate			
C.23 Respiratory Rate			
C.24 Oxygen Saturation			
C.25 Respiratory Status *			
C.26 Inspired Oxygen Concentration			
C.27 Respiratory Support			
C.28 Blood Pressure Systolic / Diastolic Mean			
N=Not Done, T=Too low to register	☐ N ☐ T	☐ N ☐ T	☐ N ☐ T
C.29 Pressors	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N

TRIPS SCORE IMPORTANCE

- TRIPS scores allow both internal and external evaluation of the acuity of infants transported into facility.
- TRIPS scores allow care by the referral hospital and that of the Transport Team to be evaluated separately.
 - This allows quality improvement efforts to be focused and to evaluate their effectiveness.
- TRIPS scores are standardized for the nearly 7,000 acute neonatal transports in California annually.
 - When comparing a facility to the State we can adjust for risk of the population and for relatively small numbers.
 - This leaves the quality of care provided reflected independently in the Quality Change Point for each facility.

MODIFIED TRANSPORT RISK INDEX OF PHYSIOLOGIC STABILITY (TRIPS) SCORE

- It is important to quickly assess the condition of an infant, as it can dictate the composition of the Transport Team and the type of transport requested. Being able to assess the infant's condition at different times, and then predict mortality, or even death, is an important measurement for the California Perinatal Transport System.
- The assessment of the infant's condition at referral, initial evaluation and NICU admission using the Modified TRIPS Score can be used to calculate the **risk of death** of the infant within **seven days** of transport.
 - ***Temperature, blood pressure, response to noxious stimuli, respiratory status, use of pressors*** to support blood pressure ***and use of a ventilator***.
 - It is used to:
 - assess the infant's condition;
 - assess the quality of care at the referral center (by evaluating changes in the infant condition between Referral and Initial Evaluation);
 - judge the quality of the neonatal transport (by evaluating changes between Initial Evaluation and NICU admission).
- An online trips score/risk of mortality calculator suitable for smart phones is available at: <http://www.health-info-solutions.com/CPQCC-CPeTS/tripsmobile/tripsmobile.html> (Google TRIPS SCORE CALCULATOR). here.

MISSING TRIPS BY TRIPS TIME AND BIRTH WEIGHT

Birth Weight (grams)	At Referral			At Initial Evaluation			At NICU Admission		
	N	N Missing	% Missing	N	N Missing	% Missing	N	N Missing	% Missing
All Birth Weights	39	11	28.2	48	4	8.3	48	4	8.3
500 or less	1	0	0.0	1	0	0.0	1	0	0.0
501 to 750	1	0	0.0	1	0	0.0	1	0	0.0
751 to 1,000	0	0	NA	1	0	0.0	1	0	0.0
1,001 to 1,500	3	1	33.3	5	0	0.0	5	0	0.0
1,501 to 2,500	7	3	42.9	13	0	0.0	13	0	0.0
over 2,500	27	7	25.9	27	4	14.8	27	4	14.8

Birth Weight (grams)	At Referral			At Initial Evaluation			At NICU Admission		
	N	N Missing	% Missing	N	N Missing	% Missing	N	N Missing	% Missing
All Birth Weights	53	2	3.8	57	0	0.0	57	0	0.0
500 or less	0	0	NA	0	0	NA	0	0	NA
501 to 750	1	0	0.0	1	0	0.0	1	0	0.0
751 to 1,000	0	0	NA	0	0	NA	0	0	NA
1,001 to 1,500	3	0	0.0	4	0	0.0	4	0	0.0
1,501 to 2,500	25	1	4.0	28	0	0.0	28	0	0.0
over 2,500	24	1	4.2	24	0	0.0	24	0	0.0

CALIFORNIA TRIPS AT REFERRAL

TRIPS at Referral	Center		CPQCC Network %	Regional NICUs %
	N	%		
All Scores	28	100	100	100
14 or less / Prob. < 1%	19	67.9	76.4	75.3
15 to 31 / Prob. < 5%	5	17.9	15.7	15.3
32 to 38 / Prob. < 10%	4	14.3	4.3	5.1
39 to 49 / Prob. < 25%	0	0.0	2.8	3.4
50 / Prob. 25%	0	0.0	0.7	0.8
Mean Score	11.1		7.8	8.3
Median Score	4.0		3.0	3.0

TRIPS at Referral	Center		CPQCC Network %	Community NICUs %
	N	%		
All Scores	51	100	100	100
14 or less / Prob. < 1%	45	88.2	76.4	78.9
15 to 31 / Prob. < 5%	5	9.8	15.7	17.0
32 to 38 / Prob. < 10%	0	0.0	4.3	2.3
39 to 49 / Prob. < 25%	0	0.0	2.8	1.3
50 / Prob. 25%	1	2.0	0.7	0.6
Mean Score	4.5		7.8	6.6
Median Score	0.0		3.0	0.0

Birth weight (grams)	Center		CPQCC Network Mean	Regional NICUs Mean
	N	Mean		
All Birth Weights	28	11.1	7.8	8.3
500 or less	1	20.0	37.3	37.3
501 to 750	1	32.0	29.6	29.1
751 to 1,000	0	NA	22.6	21.3
1,001 to 1,500	2	25.0	14.8	15.9
1,501 to 2,500	4	19.8	7.7	8.4
over 2,500	20	6.5	5.9	6.2

Birth weight (grams)	Center		CPQCC Network Mean	Community NICUs Mean
	N	Mean		
All Birth Weights	51	4.5	7.8	6.6
500 or less	0	NA	37.3	NA
501 to 750	1	50.0	29.6	31.3
751 to 1,000	0	NA	22.6	26.6
1,001 to 1,500	3	5.7	14.8	11.8
1,501 to 2,500	24	4.7	7.7	6.3
over 2,500	23	2.2	5.9	4.9

CALIFORNIA TRIPS AT INITIAL EVALUATION

TRIPS at Initial Evaluation	Center		CPQCC Network %	Regional NICUs %
	N	%		
All Scores	44	100	100	100
14 or less / Prob. < 1%	33	75.0	77.3	76.0
15 to 31 / Prob. < 5%	4	9.1	14.9	14.5
32 to 38 / Prob. < 10%	5	11.4	4.0	4.9
39 to 49 / Prob. < 25%	2	4.5	3.0	3.8
50 / Prob. 25%	0	0.0	0.7	0.9
Mean Score	10.3		7.9	8.5
Median Score	4.0		3.0	3.0

TRIPS at Initial Evaluation	Center		CPQCC Network %	Community NICUs %
	N	%		
All Scores	57	100	100	100
14 or less / Prob. < 1%	51	89.5	77.3	80.4
15 to 31 / Prob. < 5%	3	5.3	14.9	16.1
32 to 38 / Prob. < 10%	2	3.5	4.0	1.8
39 to 49 / Prob. < 25%	1	1.8	3.0	1.3
50 / Prob. 25%	0	0.0	0.7	0.3
Mean Score	4.6		7.9	6.5
Median Score	0.0		3.0	3.0

Birth weight (grams)	Center		CPQCC Network Mean	Regional NICUs Mean
	N	Mean		
All Birth Weights	44	10.3	7.9	8.5
500 or less	1	20.0	39.3	39.3
501 to 750	1	33.0	30.1	30.7
751 to 1,000	1	39.0	23.6	23.5
1,001 to 1,500	5	14.8	14.7	15.4
1,501 to 2,500	13	10.8	7.5	8.2
over 2,500	23	6.4	5.8	6.3

Birth weight (grams)	Center		CPQCC Network Mean	Community NICUs Mean
	N	Mean		
All Birth Weights	57	4.6	7.9	6.5
500 or less	0	NA	39.3	NA
501 to 750	1	37.0	30.1	28.3
751 to 1,000	0	NA	23.6	23.9
1,001 to 1,500	4	12.5	14.7	12.9
1,501 to 2,500	28	4.9	7.5	6.1
over 2,500	24	1.6	5.8	4.8

CALIFORNIA TRIPS AT NICU ADMISSION

TRIPS at NICU Admission	Center		CPQCC Network %	Regional NICUs %
	N	%		
All Scores	44	100	100	100
14 or less / Prob. < 1%	30	68.2	75.9	75.3
15 to 31 / Prob. < 5%	7	15.9	15.2	14.3
32 to 38 / Prob. < 10%	5	11.4	4.7	5.4
39 to 49 / Prob. < 25%	1	2.3	3.5	4.0
50 / Prob. 25%	1	2.3	0.8	1.0
Mean Score	10.9		8.1	8.5
Median Score	3.0		3.0	3.0

TRIPS at NICU Admission	Center		CPQCC Network %	Community NICUs %
	N	%		
All Scores	57	100	100	100
14 or less / Prob. < 1%	53	93.0	75.9	77.5
15 to 31 / Prob. < 5%	4	7.0	15.2	17.6
32 to 38 / Prob. < 10%	0	0.0	4.7	2.8
39 to 49 / Prob. < 25%	0	0.0	3.5	2.0
50 / Prob. 25%	0	0.0	0.8	0.2
Mean Score	3.5		8.1	7.0
Median Score	0.0		3.0	3.0

Birth weight (grams)	Center		CPQCC Network Mean	Regional NICUs Mean
	N	Mean		
All Birth Weights	44	10.9	8.1	8.5
500 or less	1	23.0	39.8	39.8
501 to 750	1	33.0	31.5	31.0
751 to 1,000	1	42.0	23.6	23.7
1,001 to 1,500	5	25.8	16.1	16.7
1,501 to 2,500	13	9.0	7.3	7.9
over 2,500	23	5.9	5.9	6.2

Birth weight (grams)	Center		CPQCC Network Mean	Community NICUs Mean
	N	Mean		
All Birth Weights	57	3.5	8.1	7.0
500 or less	0	NA	39.8	NA
501 to 750	1	17.0	31.5	33.6
751 to 1,000	0	NA	23.6	23.2
1,001 to 1,500	4	11.5	16.1	14.5
1,501 to 2,500	28	3.3	7.3	5.9
over 2,500	24	1.9	5.9	5.2

MEAN CHANGE IN CALIFORNIA TRIPS FROM REFERRAL TO INITIAL EVALUATION, BY BIRTH WEIGHT

Birth weight (grams)	QCP	Center				CPQCC Network Mean Change	Regional NICUs Mean Change
		N Infants	N Infants Exceeding QCP	% Infants Exceeding QCP	Mean Change		
All Birth Weights	-	28	0	0.0	-0.8	0.3	0.5
500 or less	9	1	0	0.0	0.0	1.6	1.6
501 to 750	9	1	0	0.0	1.0	-0.5	0.0
751 to 1,000	4	0	NA	NA	NA	0.4	1.2
1,001 to 1,500	4	2	0	0.0	1.5	0.5	0.5
1,501 to 2,500	4	4	0	0.0	0.0	0.3	0.4
over 2,500	4	20	0	0.0	-1.3	0.3	0.5

Birth weight (grams)	QCP	Center				CPQCC Network Mean Change	Community NICUs Mean Change
		N Infants	N Infants Exceeding QCP	% Infants Exceeding QCP	Mean Change		
All Birth Weights	-	51	0	0.0	-0.9	0.3	0.0
500 or less	9	0	NA	NA	NA	1.6	NA
501 to 750	9	1	0	0.0	-13.0	-0.5	-2.2
751 to 1,000	4	0	NA	NA	NA	0.4	-2.0
1,001 to 1,500	4	3	0	0.0	0.0	0.5	0.7
1,501 to 2,500	4	24	0	0.0	-0.9	0.3	0.1
over 2,500	4	23	0	0.0	-0.5	0.3	0.0

MEAN CHANGE IN CALIFORNIA TRIPS FROM INITIAL EVALUATION TO NICU ADMISSION, BY BIRTH WEIGHT

Birth weight (grams)	QCP	Center				CPQCC Network Mean Change	Regional NICUs Mean Change
		N Infants	N Infants Exceeding QCP	% Infants Exceeding QCP	Mean Change		
All Birth Weights	-	43	6	14.0	1.0	0.4	0.3
500 or less	11	1	0	0.0	3.0	-0.3	-0.3
501 to 750	11	1	0	0.0	0.0	2.0	1.1
751 to 1,000	9	1	0	0.0	3.0	-0.1	-0.3
1,001 to 1,500	7	5	4	80.0	11.0	2.2	2.4
1,501 to 2,500	4	13	0	0.0	-1.8	0.0	0.1
over 2,500	4	22	2	9.1	0.2	0.3	0.2

Birth weight (grams)	QCP	Center				CPQCC Network Mean Change	Community NICUs Mean Change
		N Infants	N Infants Exceeding QCP	% Infants Exceeding QCP	Mean Change		
All Birth Weights	-	57	0	0.0	-1.1	0.4	0.5
500 or less	11	0	NA	NA	NA	-0.3	NA
501 to 750	11	1	0	0.0	-20.0	2.0	4.7
751 to 1,000	9	0	NA	NA	NA	-0.1	0.4
1,001 to 1,500	7	4	0	0.0	-1.0	2.2	1.6
1,501 to 2,500	4	28	0	0.0	-1.6	0.0	-0.2
over 2,500	4	24	0	0.0	0.3	0.3	0.6



MATERIALS AND RESOURCES





PERINATAL.ORG



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View Bed Availability - Southern California

To obtain more detailed information about each provider, including contacts and phone numbers, click on the name of that center in the first column.

REGIONAL Centers		Beds Available			
Hospital	City	Neonatal	ECMO	High Risk Maternity	Last Update
Cedars Sinai Medical Center	Los Angeles	5 or more	n/a	open	8/24/2021
Children's Hospital of Los Angeles	Los Angeles	1	open	n/a	8/24/2021
Children's Hospital of Orange County	Orange	5 or more	open	n/a	8/23/2021
Desert Regional Medical Center	Palm Springs	4	n/a	n/a	8/22/2021
Huntington Memorial Hospital	Pasadena	2	open	open	8/23/2021
Kaiser Permanente Los	Los Angeles	2	n/a	n/a	8/22/2021

- Daily hospital updates of Neonatal and High Risk Maternity Beds
- Quarterly reports from Regional CPeTS on Update Compliance
- Quarterly and as needed updates of Contact Information

PERINATAL.ORG

Direct Referral and Contact Information.
Updated quarterly and as needed by hospitals. Accessed by clicking on facility name in main listing.



HOME NORTHERN CALIFORNIA SOUTHERN CALIFORNIA EXTERNAL REFERENCE SEARCH NEONATAL TRANSPORT DATA SYSTEM BED AVAILABILITY SIGN IN

Children's Hospital of Los Angeles

Last updated on Aug 24, 2021, 6:23:55 AM

Hospital:*
Children's Hospital of Los Angeles

City:*
Los Angeles

Address1:
4650 Sunset Boulevard Mail Stop #31

Address2:
Los Angeles 90027-6062

Main NICU telephone/Fax:
323-361-2531

Main L&D telephone:
Main L&D telephone

NICU Transport Coordinator

Name:
Judy Sherif

Phone:
323-660-2450 ext. 5844

Email:
JSherif@chla.usc.edu

OB Transport

Name:
Calvin Lowe

Phone:
323-660-2450 ext. 2109

Email:
clowe@chla.usc.edu

NICU Medical Director

Name:
Phillippe Friedlich

Phone:
323-660-2450 ext. 6300

Email:
@chla.usc.edu

NICU Nurse Manager

Name:
Sonja Allii-Casella

Phone:
323-660-2450 ext. 5185

Email:
sallii-casella@chla.usc.edu

OB Medical Director

Name:
Name

Phone:
Phone

Email:
Email

L&D Nurse Manager

Name:

Phone:

Email:

PERINATAL.ORG

All materials and support documents accessible at perinatal.org website

Hospital and Local EMS Contact Information now available.



Neonatal Transport Data System

CPeTS Transport paper forms are no longer available from the Regional Offices. Please download and copy the forms as needed from this website

2021 Materials

[2021 Neonatal Transport Form \(PDF\)](#)
[2021 Neonatal Transport Form \(Word\)](#)
[2021 Neonatal Transport Form Color Coded \(PDF\)](#)
[2021 Neonatal Transport Form Color Coded \(Word\)](#)
[2021 CPeTS manual \(PDF\)](#)
[2021 OSHPD Code List \(PDF\)](#)
[CPeTS Update for Data Trainings 2019](#)
[2021 CPeTS Data Request Form \(PDF\)](#)
[2021 CPeTS Data Request Form \(Word\)](#)

Hospital/EMS Contact List

[Hospital and Local EMS Contact Information Download \(PDF\)](#)
[Hospital and Local EMS Contact Information Download \(Excel\)](#)

HOSPITAL AND LOCAL EMS CONTACT INFORMATION

Facility Contact Information

Hospital Community Memorial Hospital of
San Buenaventura

City Ventura

Type COMMUNITY

Address1 147 North Brent Street Ventura,
CA

Address2 Ventura, CA 93003-2854

Main NICU telephone/Fax 805-652-5620

Main L&D telephone

NICU Transport Coordinator

OB Transport

NICU Medical Director

John Van Houten 805 652-5620

John_vanhouten@pediatrix.com

NICU Nurse Manager

Deborah J Hill 805 667-2821

djhill@cmhhospital.org

OB Medical Director

Local EMS Contact Information

County VENTURA

Director Daniel Shepherd, MD

Address 2220 E. Gonzalez Rd., Ste. 130

City, State, ZIP Oxnard, CA 93036

Phone (805) 981-5304

Email daniel.shepherd@ventura.org

Fax

RESOURCES

- Perinatal.org
- CPQCC.org (CPETS REPORTS)
- Southern California CPeTS: 714 921-9755
 - Kevin Van Otterloo: Kevin@perinatalnetwork.org
- Northern California CPeTS: 650 736-2210
 - Rebecca Robinson: rrobinso@stanford.edu
 - Ron Cohen: RSCohen@Stanford.edu

Q&A Session

Panelists

- **Ronald Cohen, MD**, Medical Director, Northern CPeTS
- **Lucy Van Otterloo, PhD, RNC, CNS**, Executive Director, Community Perinatal Network
- **Kevin Van Otterloo**, Program Director, Southern CPeTS
- **Fulani Davis**, Program Manager, CPQCC NICU/CPeTS Data Center
- **Janella Parucha**, Program Manager, CPQCC NICU/CPeTS Data Center

Closing

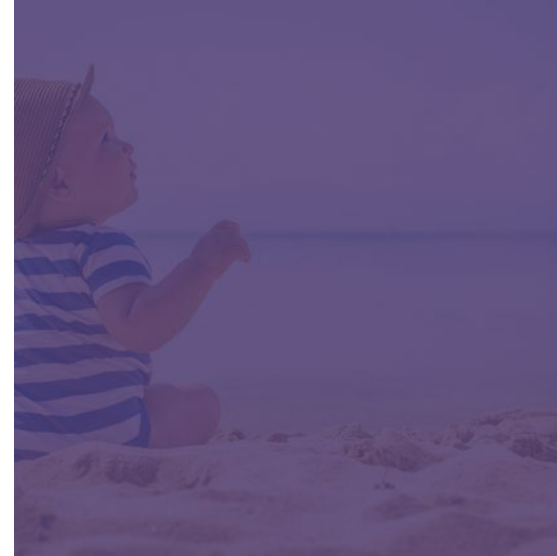
Recording and Webinar Evaluation

- An email will be sent out after the webinar with a link to:
 - The slides and webinar recording
 - An evaluation survey
- CEU's will be accumulated and distributed after all data training sessions have been completed (for live sessions only)
- The webinar recording and slides will also be posted at:
<https://www.cpqcc.org/engage/annual-data-training-webinars-2021>

Upcoming Data Trainings



October 13th - What's
New with NICU Data



October 20th - What's
New with HRIF Data

prqc