



# CCS LAINA Q&A

## For Lower Acuity Inborn NICU Admits

### LAINA – Data Entry

#### When is this data required to be collected?

Starting January 1, 2022.

#### How is LAINA defined?

Lower Acuity Inborn NICU Admissions (CPQCC ineligible infants).

#### What hospitals are required to submit this data?

Any CCS hospital with inborn NICU admissions.

Note: Freestanding children's hospitals are not required to participate.

#### What are my options in submitting this data?

1. CPQCC: Enter all NICU admissions (inborn and outborn) into the All NICU Admits Database via the [NICU Data site](#).

Or

2. Contact Dr. Schulman [joseph.schulman@dhcs.ca.gov](mailto:joseph.schulman@dhcs.ca.gov) and follow his guidance on how to collect and report the data.

#### Can I enter only inborn NICU admissions?

If you choose to enter your data in the All NICU Admits Database, you must enter all NICU admissions (inborn and outborn).

If you choose not to use the All NICU Admits Database, please contact Dr. Schulman [joseph.schulman@dhcs.ca.gov](mailto:joseph.schulman@dhcs.ca.gov) for an alternative method.

#### Am I required to enter admission reasons in the All NICU Admits Database?

No. Admission reasons is optional; problems during the NICU stay are required. If you enter an admission reason, you can use the teal links to pre-populate the problems during NICU stay and make any needed edits.

#### Do I need to enter a specific diagnosis per ICD-10?

Edit NAD Record

Demographics Admission ABX / Central Lines **Disposition**

NICU Discharge Date 01-09-2021  
[Set to Admit Dt](#)

NICU Disposition  Home from this NICU  
 Transport-Out to another hospital  
 Died in this NICU  
 Transfer to another unit within my hospital

Problems during NICU Stay  
[Check Admit Reasons](#)

- Suspected Infection
- Resp. Suspected infection
- Hypox. Infection/sepsis
- Hypo. At risk for infection/sepsis
- Hype. Observe for infection/sepsis
- Terni. Risk factors for infection/sepsis
- Feed. Rule out infection/sepsis
- BW/zt. Suspected infection/sepsis
- BW/zt. ABX greater than 3 days
- Small for gestational age
- Perinatal transitional monitoring
- Neonatal abstinence syndrome
- Dysmorphic/chromosomal anomaly
- Apnea/cyanotic event
- Cardiac
- Seizure/Neurological
- Other Problem

Check problems during NICU stay, i.e., problems that o

Use the teal copy link above to select the same items as the admit reasons used, make changes as needed.

Use your mouse to hover over the "?" for a description of each item

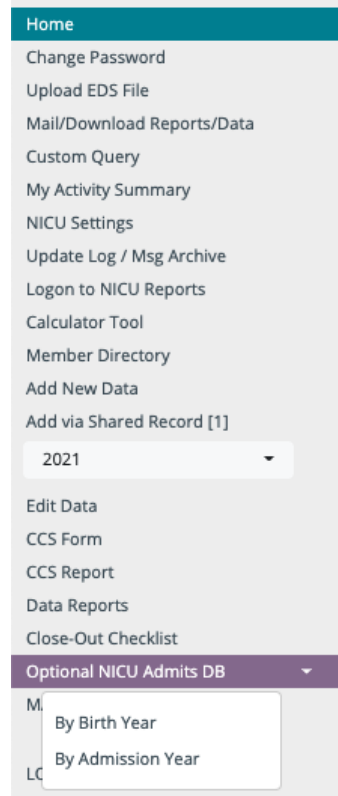


No. Enter one of the 15 listed diagnostic categories which represent the major problems encountered in our NICU admissions. Each category may contain several different specific diagnoses, but these do not have to be entered.

### What are the advantages of using the All NICU Admits Database?

Entering your NICU admissions into the All NICU Admits database will allow you to:

- Pre-populate the CCS Supplemental form (for all sections pertaining to NICU admissions)
- Review real-time reports, the All NICU Admits Focusboards for all NICU admits
- In the future, “Problems during NICU Stay” will be captured from administrative data based on ICD-10 codes.



### Do I have access to the All NICU Admits Database?

Access to the All NICU Admits Database is included in access to the NICU Data site. If you do not have access to NICU Data, please submit a Help Desk ticket at [www.cpqcchelp.org](http://www.cpqcchelp.org). **How do I access the optional All NICU Admits Database?**

On the NICU Data site, look for the Optional NICU Admits DB link in the left hand menu bar (as seen on the left).

### What fields am I required to complete?

You are required to complete all fields, except for those that are marked “[optional]”.

### Should I include infants being observed but not officially admitted to the NICU in the LAINA data collection?

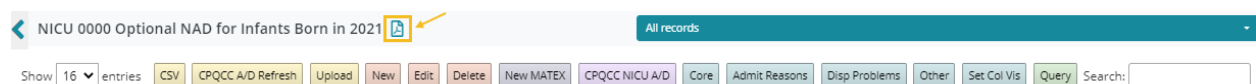
Only infants who have been officially admitted to the NICU, i.e. billed/charged for the NICU stay, would qualify for the LAINA data collection.

If an infant was observed in the NICU but not billed/charged for the NICU stay, that infant would NOT qualify for the LAINA data collection.

### Where can I find information about how to submit data in the All

### NICU Admits Database?

- The All NICU Admits Database manual can be found on top of the All NICU Admits Database screen, which can also be accessed at <https://www.cpqcc.org/sites/default/files/optionalNICUadmitsDB20210305.pdf>.



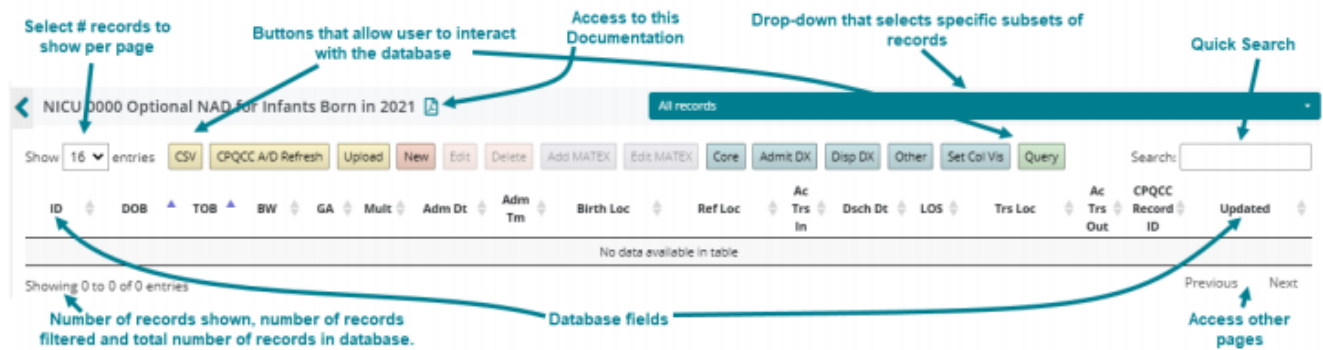
- The All NICU Admissions webpage (<https://www.cpqcc.org/nicu/nicu-data/all-nicu-admits-database>)

### How do I enter data into the All NICU Admits Database?

Records can be added or modified in 3 ways:

- Using the on-line form to add, edit or delete NAD records.
- Uploading a CSV file by clicking on the Upload button.
- Adding existing CPQCC NICU A/D Records by clicking on the CPQCC A/D Refresh button.

Each of these options are explained in detail in the All NICU Admits [Instruction Manual](#).



### LAINA – Reports

#### Where will the LAINA data be reported?

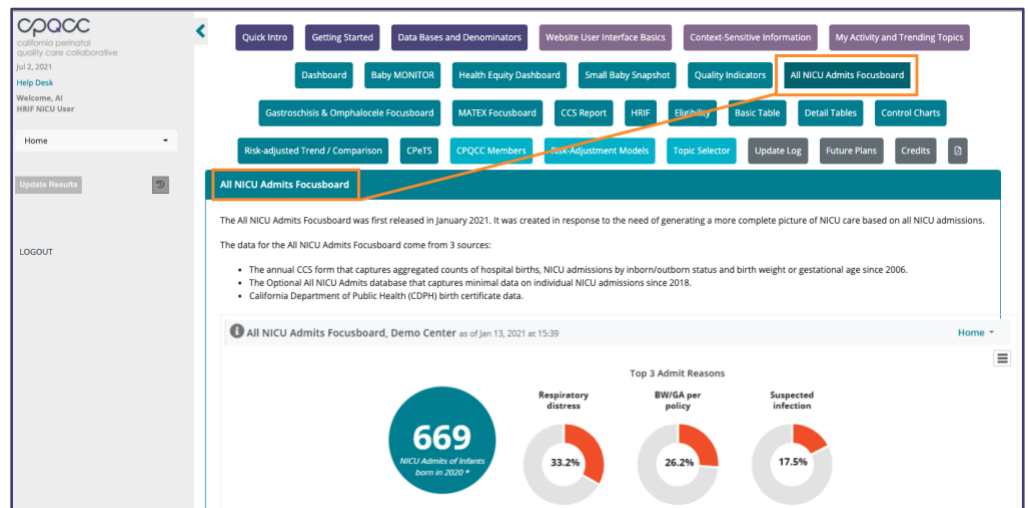
The LAINA data will be reported in the CCS report and the All NICU Admits Focusboards.

#### How do I access the All NICU Admits Focusboards?

CPQCC members that have access to NICU Reports also have access to the All NICU Admits Focusboards.

If you do not have access to the NICU Reports, or are unsure if you do, please submit a Help Desk ticket at [www.cpqcchelp.org](http://www.cpqcchelp.org).

#### How will the LAINA data be reported in the CCS report?





- % of Live Births in Your Center considered LAINA by BW and GA
- % of Inborn Admissions to Your NICU considered LAINA by BW and GA
- % of Total Admissions to Your NICU considered LAINA by BW (includes outborns)

### Section A. Hospital Births and NICU Admissions by Birth Weight

	< 401 grams	401-500 grams	501-750 grams	751-1,000 grams	1,001-1500 grams	1,501-2500 grams	> 2500 grams	Total
Total Live Births in Your Center	0	2	5	7	30	158	1,285	1,487
Total Admissions to Your NICU	0	3	12	14	43	83	231	386
Inborn Admissions to Your NICU	0	2	5	7	30	35	38	117
Lower Acuity Inborn NICU Admissions (LAINA)								
% of Live Births in Your Center Admitted to Your NICU	NA	100.0	100.0	100.0	100.0	22.2	3.0	7.9
% of Live Births in Your Center considered LAINA								
% of Inborn Admissions to Your NICU considered LAINA								
% of Total Admissions to Your NICU considered LAINA								
Outborn Admissions to Your NICU	0	1	7	7	13	48	193	269
Acute Outborn Admissions to Your NICU	0	1	7	7	13	48	193	269
Non-Acute Outborn Admissions to Your NICU	0	0	0	0	0	0	0	0

\*sections in gold will be automatically added in the CCS report to satisfy the CCS mandate – no additional data entry required

### Section D. Hospital Births and Inborn NICU Admissions by GA

	≤ 21 6/7 weeks	22 0/7 - 31 6/7 weeks	32 0/7 - 33 6/7 weeks	34 0/7 - 36 6/7 weeks	37 0/7 - 38 6/7 weeks	39 0/7 - 41 6/7 weeks	≥ 42 0/7 weeks	Unknown	Total
Total Live Births in Your Center	0	63	40	160	377	847	0	0	1,487
Total Admissions to Your NICU									
Inborn Admissions to Your NICU	0	55	7	20	14	21	0	0	117
Lower Acuity Inborn NICU Admissions (LAINA)									
% of Live Births in Your Center Admitted to Your NICU	NA	87.3	17.5	12.5	3.7	2.5	NA	NA	7.9
% of Live Births in Your Center considered LAINA									
% of Inborn Admissions to Your NICU considered LAINA									

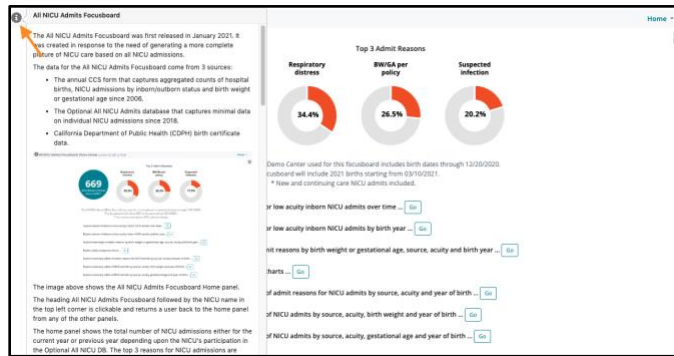
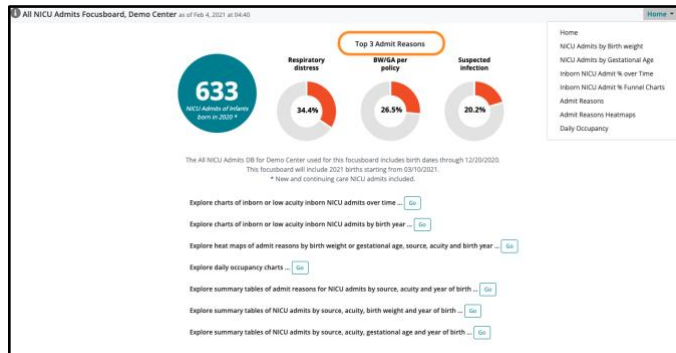
\*sections in gold will be automatically added in the CCS report to satisfy the CCS mandate – no additional data entry required

### How will the LAINA data be reported in the All NICU Admits Focusboards?

The All NICU Admits Focusboards shows a number of different panels looking at different aspects of a NICU's admissions.

For the first visit to the All NICU Admits Focusboard, the home page is loaded. Subsequent visits are started where the user left off.

The All NICU Admits Focusboard Home page shows the top 3 reasons for NICU admissions for Database participants only. The “Go” buttons or the drop-down menu in the upper right corner are used to select sections of the report. Clicking on the All NICU Admits Focusboard header in the top left corner always takes you back to the Home page.



You can click the “i” in the upper left corner of the page for more information about the All NICU Admits Focusboard.

## NICU Admits Table

NICU Admits by Birth Weight							
	Birth Weight (grams)						Total
	under 501	501 to 750	751 to 1,000	1,001 to 1,500	1,501 to 2,500	2,501+	
Births at NICU Hospital	6	9	13	32	256	3,358	3,674
NICU Admits	2	12	16	40	177	387	634
Inborn NICU Admits (INA)	1	8	12	32	146	271	470
% INA of Births at NICU Hospital for my NICU	16.7	88.9	92.3	100.0	57.0	8.1	12.8
Q1-Q3 for the Network	0.0 - 33.3	87.5 - 100.0	98.6 - 100.0	91.7 - 100.0	48.8 - 61.9	5.7 - 10.7	8.8 - 15.6
Q1-Q3 for Regional NICUs	0.0 - 42.9	80.0 - 100.0	92.6 - 100.0	91.8 - 102.3	60.0 - 61.9	8.8 - 12.5	14.1 - 21.3
Low Acuity Inborn NICU Admits (LAINA)	na	na	na	na	na	110	218
% LAINA of NICU Admits for my NICU	na	na	na	na	na	62.1	56.3
Q1-Q3 for the Network	na	na	na	na	54.3 - 74.5	54.0 - 74.6	
Q1-Q3 for Regional NICUs	na	na	na	na	53.2 - 70.4	36.0 - 63.2	
% LAINA of Inborn NICU Admits for my NICU	na	na	na	na	na	75.3	80.4
Q1-Q3 for the Network	na	na	na	na	67.9 - 83.7	77.2 - 88.7	
Q1-Q3 for Regional NICUs	na	na	na	na	61.1 - 83.6	64.4 - 89.6	
% LAINA of Births at NICU Hospital for my NICU	na	na	na	na	na	43.0	6.5
Q1-Q3 for the Network	na	na	na	na	34.2 - 52.0	4.4 - 8.9	
Q1-Q3 for Regional NICUs	na	na	na	na	37.8 - 54.2	6.9 - 10.0	

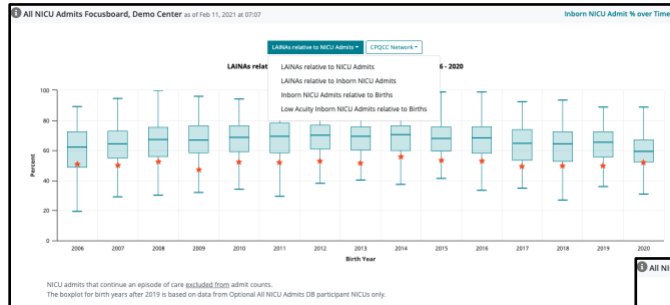
The NICU Admits table shows hospital births, NICU admissions, inborn NICU admissions and low acuity inborn NICU admissions by birth weight and gestational age that are derived from the

NICU Admits by Gestational Age								
	Gestational Age							Total
	under 22	22 to 31 6/7	32 to 33 6/7	34 to 36 6/7	37 to 38 6/7	39 to 41 6/7		
Births at NICU Hospital	4	70	42	264	958	2,32		3,674
NICU Admits	0	78	59	157	139	19		634
Inborn NICU Admits (INA)	0	59	51	128	97	15		470
% INA of Births at NICU Hospital for my NICU	0.0	84.3	121.4	48.5	10.1	5.1		12.8
Q1-Q3 for the Network	0.0 - 0.0	76.0 - 94.4	102.7 - 131.3	41.6 - 53.2	7.2 - 12.0	3.3 - 7.9		0.0 - 22.5
Q1-Q3 for Regional NICUs	0.0 - 0.0	76.0 - 94.4	107.3 - 130.4	48.1 - 53.1	11.0 - 14.4	6.8 - 10.0		7.1 - 20.0
Low Acuity Inborn NICU Admits (LAINA)	0	0	36	106	76	108		328
% LAINA of NICU Admits for my NICU	na	na	61.0	67.5	54.7	54.3		56.0
Q1-Q3 for the Network	0.0 - 0.0	0.0 - 2.2	41.2 - 77.8	63.3 - 80.2	48.1 - 76.1	53.5 - 75.3		50.0 - 100.0
Q1-Q3 for Regional NICUs	0.0 - 0.0	0.0 - 0.7	52.3 - 74.0	59.1 - 74.7	37.0 - 65.5	33.3 - 61.2		37.5 - 100.0
% LAINA of Inborn NICU Admits for my NICU	na	na	79.6	82.8	78.4	80.6		100.0
Q1-Q3 for the Network	0.0 - 0.0	0.0 - 2.4	55.4 - 81.8	78.0 - 91.0	73.5 - 88.6	77.8 - 90.7		100.0 - 100.0
Q1-Q3 for Regional NICUs	0.0 - 0.0	0.0 - 1.1	56.4 - 80.7	69.7 - 90.6	61.1 - 87.6	64.2 - 90.7		87.5 - 100.0
% LAINA of Births at NICU Hospital for my NICU	na	na	85.7	49.3	7.9	4.6		12.5
Q1-Q3 for the Network	0.0 - 0.0	0.0 - 2.2	55.6 - 100.0	31.4 - 45.5	5.5 - 10.3	3.0 - 6.6		0.0 - 18.3
Q1-Q3 for Regional NICUs	0.0 - 0.0	0.0 - 1.2	67.9 - 96.6	35.2 - 48.1	7.6 - 12.0	5.2 - 8.1		7.1 - 20.0

CCS Form for closed-out years or the NICU Admits Database by year. You can change the table year using the drop-down in the header of the first column.

- The birth weight table resembles Section A of the CCS report.
- The gestational age table resembles Section D of the CCS report.

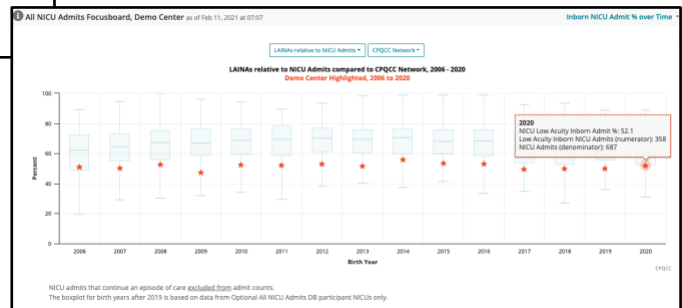
## Inborn NICU Admit % over Time



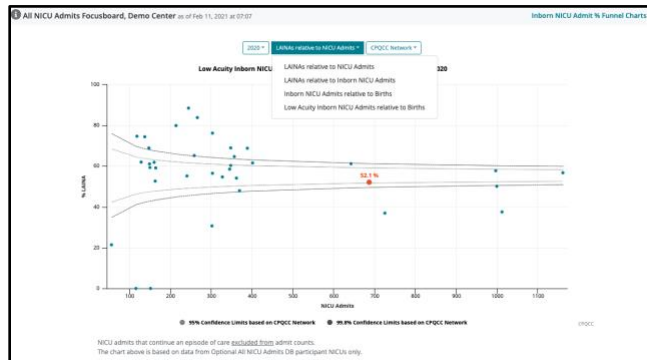
The Inborn NICU Admit % over Time report features NICU admit trends by year. For each year, a boxplot shows the NICU's observed percentage with box statistics derived either from the CPQCC network or the set of NICUs that provided a similar level of NICU care. The comparison group

can be modified using the right drop-down above the chart. The left drop-down above the chart allows the selection of different inborn admit metrics.

**NOTE:** This report is not available for freestanding children's hospitals.



## Inborn NICU Admit % Funnel Charts

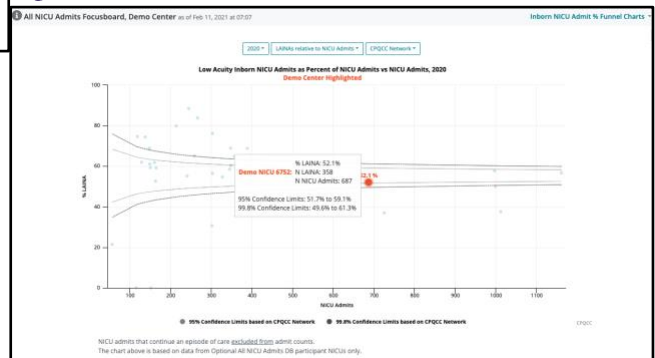


The funnel charts give an alternative way to review annual Inborn NICU Admit percentages in comparison to all CPQCC network NICUs or the set of NICUs providing a similar level of NICU care. Each point in a funnel chart represents one NICU. The point for the currently active NICU is highlighted, slightly larger than all the other points and labeled with the observed,

unadjusted Inborn NICU Admit percent metric selected.

The funnel chart also features confidence limits that are constructed based on the selected comparison group at the 95% and 99.8% confidence level.

**NOTE:** This report is not available for freestanding children's hospitals.





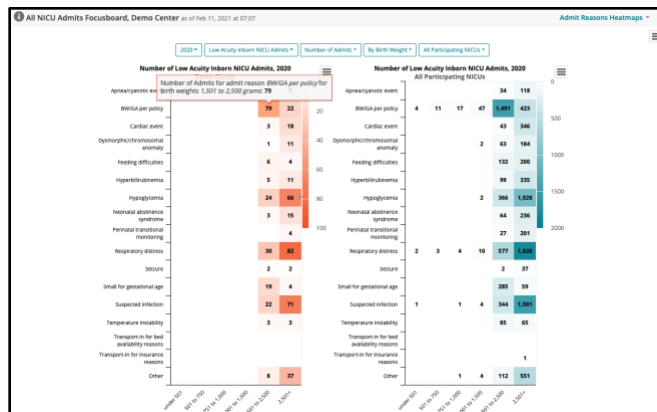
## Admit Reasons / Problems during NICU Stay Table

The Admit Reasons table shows the number and percent of NICU Admits (or subgroup) for each of the 17 admit reasons (derived from the All NICU Admits Database) for your NICU and a comparison group. The comparison group either consists of all Network NICUs or of those NICUs that provide a similar level of care. By default, the table is sorted by the largest to smallest admit reasons for the selected group. Length of stay (LOS) statistics are shown.

Admit Reason	Demo Center (N=368)						All Participating NICUs (N=7,056)					
	N	%	Nw/LOS	Mean LOS	Min LOS	Max LOS	N	%	Nw/LOS	Mean LOS	Min LOS	Max LOS
<b>Respiratory</b>												
Low Acuity NICU Admits	112	30.4	111	11.2	1	68	2,422	34.3	2,401	9.8	1	85
High Acuity NICU Admits	101	27.4	101	16.6	2	53	1,993	28.2	1,956	17.3	1	158
<b>Suspected Infection</b>	93	25.3	93	8.8	2	45	1,851	26.2	1,845	8.6	1	71
<b>Hypoglycemia</b>	90	24.5	90	8.7	1	49	1,396	19.8	1,389	8.2	1	94
<b>Hyperbilirubinemia</b>	16	4.3	16	7.1	2	18	434	6.2	432	8.6	1	67
<b>Cardiac event</b>	21	5.7	21	7.8	1	32	389	5.5	383	6.7	1	55
<b>Small for gestational age</b>	23	6.3	23	11.5	2	33	344	4.9	343	12.7	1	67
<b>Feeding difficulties</b>	10	2.7	9	11.2	3	22	332	4.7	327	12.0	1	67
<b>Neonatal al</b>	18	4.9	18	18.4	1	68	300	4.3	298	15.1	1	74
<b>Dysmorphic/chromosomal anomaly</b>	12	3.3	11	11.7	1	32	249	3.5	247	12.0	1	110
<b>Perinatal transitional monitoring</b>	4	1.1	4	3.0	1	5	228	3.2	227	5.7	1	35
<b>Apnea/cyanotic event</b>	6	1.6	6	15.8	3	49	152	2.2	152	9.3	1	67
<b>Temperature instability</b>	6	1.6	6	11.7	3	33	150	2.1	149	8.8	1	33
<b>Seizure</b>	4	1.1	4	6.3	4	8	39	0.6	39	5.7	1	22
<b>Transport-in for insurance reasons</b>	0	0	0	0	0	0	1	0.0	1	8.0	8	8
<b>Transport-in for bed availability reasons</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Other</b>	45	12.2	45	8.4	1	33	668	9.5	664	8.5	1	77

Problems during the NICU stay will be added as another option for this table starting with birth year 2022.

## Admit Reasons / Problems during NICU Stay Heatmaps



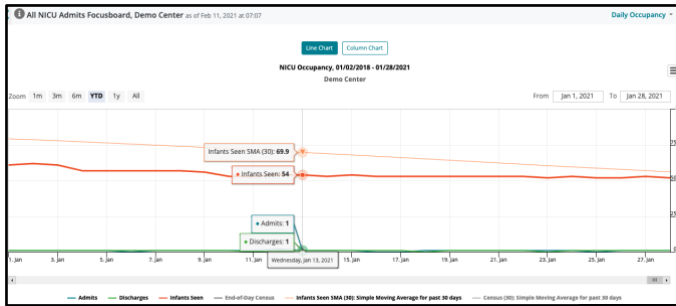
select the birth year, all NICU admissions or a subgroup based on inborn/outborn status and/or acuity, the metric shown in the heatmap (NICU admissions, NICU average length of stay, total NICU days, etc.), and either the network or the group of NICUs that provide a similar level of care as the selected NICU to be displayed in a comparison heatmap.

Heatmaps are used to display NICU admission counts and other metrics for each of 17 admission reasons by birth weight or gestational age. A heatmap is a visual tool that focuses the user's attention on those combinations of admit reason and birth weight / gestational age that have the largest impact. In addition to specifying birth weight or gestational age as stratifiers, users may



Problems during the NICU stay will be added as another heatmap option starting with birth year 2022.

### Daily Occupancy



The daily occupancy charts summarize NICU admits either as a column or as a line chart. The line chart distinguishes admits, discharges, infants seen, end-of-day census (hidden by default), and a simple moving average based on the previous 30 days for the last two metrics. Legend entries are clickable turning a line on (visible) or off

(invisible). The bar chart distinguishes admits discharges and all-day infants.

**NOTE:** When a NICU begins entering data into the All NICU Admits DB by birth year (rather than admit year), the first few months in the chart will show a steady increase until the birth years entered account for all NICU admits.

