

County of San Diego, EMS Analysis of New Diversion Policy

Surge "Began"
on 12/16/21

New Diversion
Policy initiated
on 1/13/22

Surge "Ended"
on 2/18/22

Compare these two sets of Data

Surge period of
intense system
stress, 28 Days

Surge period of
intense system
stress, 36 Days

Pre-Surge, Old Policy

Surge, Old Policy

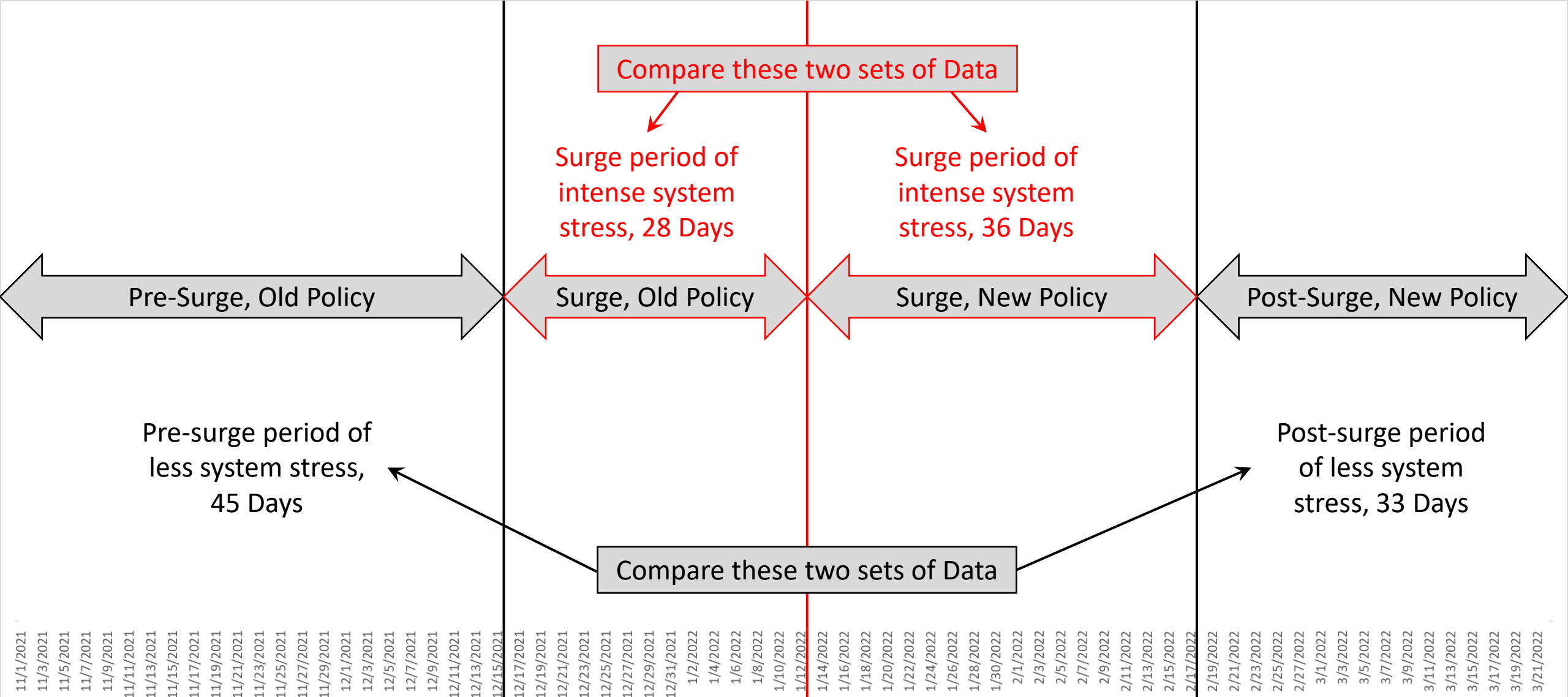
Surge, New Policy

Post-Surge, New Policy

Pre-surge period of
less system stress,
45 Days

Compare these two sets of Data

Post-surge period
of less system
stress, 33 Days

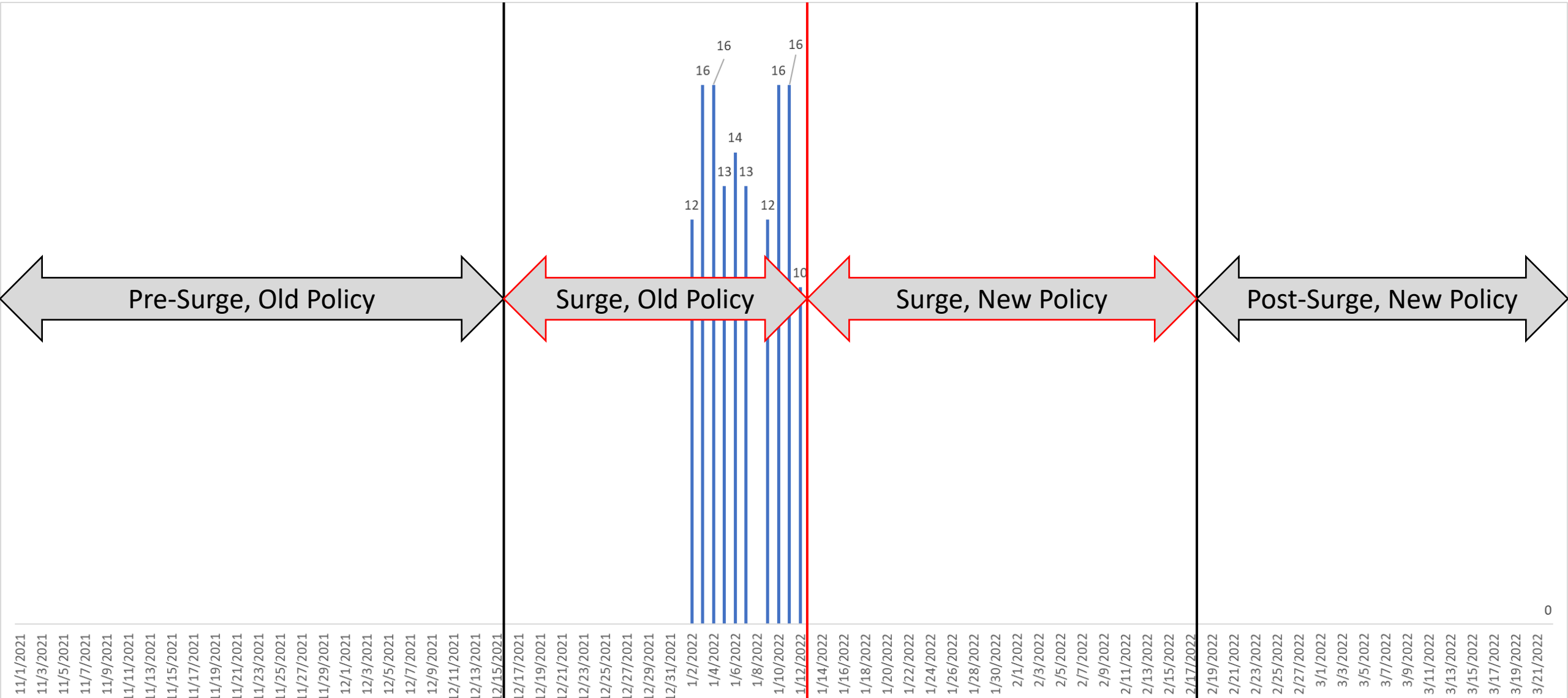


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Surge, New Policy

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Surge “Began” and “Ended” Dates

- NOT selected using EMS metrics
- Selected using a combination of:
 - COVID Case Counts
 - COVID Case Positivity Rate
 - Hospital COVID Census
 - ED Boarders

EMS Metrics Analyzed

- TOC Time
 - Average and 90th Percentile
- Total Hospital Time
 - Average and 90th Percentile
- Use of Internal Disaster
- Use of Specialty Care Diversion
- City of San Diego Level Zero Data
- Unit Assignment Time
 - Average and 90th Percentile
- Transport Time
 - Average and 90th Percentile

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Surge, Old Policy

Surge, New Policy

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11/7/2021
11/9/2021
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11/13/2021
11/15/2021
11/17/2021
11/19/2021
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Surge with Diversion (12/16/21 – 1/12/22) vs. Surge without Diversion (1/13/22 – 2/17/22)

Metric	Surge with Diversion	Surge without Diversion	Post-Policy Change Increase
Prehospital Volume	749	725	-3.2%
ED Volume	3434	3121	-9.1%
Average TOC	26.42	24.96	-5.53%
90th Percentile TOC	55.80	51.50	-7.71%
Average Hospital Time	50.43	47.62	-5.57%
90th Percentile Hospital Time	85.46	79.09	-7.45%
Internal Disaster (Avg. Daily Minutes)	1.96	53.53	2,631.12%
Specialty Care Diversion (Avg Daily Minutes)	2802.54	2538.11	-9.44%
Level Zero (Avg Daily Minutes)	100.43	33.86	-66.28%
Average Unit Assignment Time	1.08	0.93	-13.89%
90th Percentile Unit Assignment Time	2.43	1.90	-21.81%
Average Transport Time	18.15	17.02	-6.23%
90th Percentile Transport Time	30.30	28.10	-7.26%

Figure 2.1. San Diego County COVID-19 Confirmed and Probable Cases by CDC Episode Week*, 2022-23 Fiscal Year-to-Date (N=171,980)

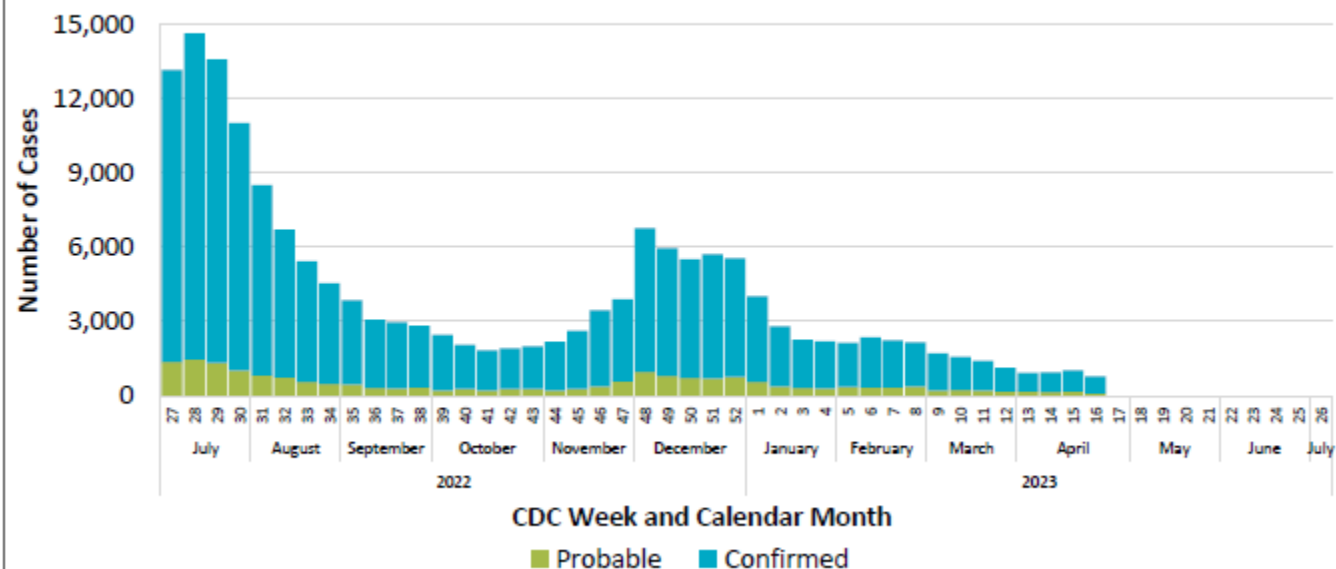
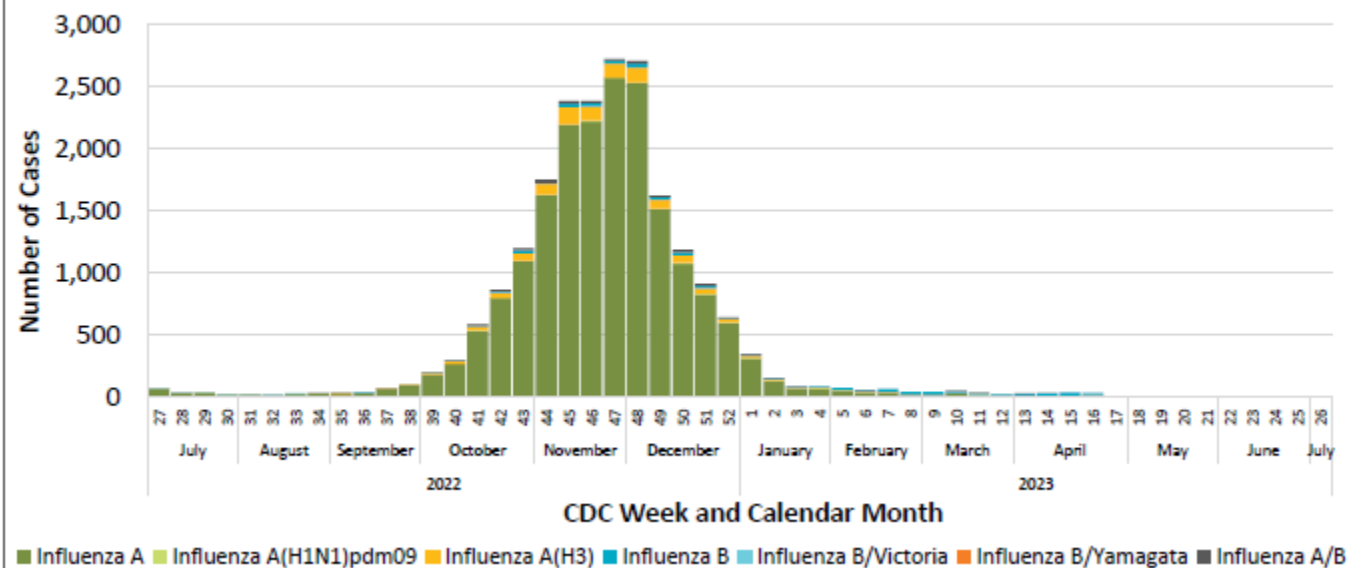


Figure 2.2. San Diego County Influenza Cases by Type and CDC Episode Week*, 2022-23 Fiscal Year-to-Date (N=21,326)



Surge with Diversion (12/16/21 – 1/12/22) vs. Surge Follow up (11/1/22 – 12/31/22)

Metric	Surge with Diversion	Surge Follow up	Percent Change
Prehospital Volume	749	760	1.5%
ED Volume	3434	3538	3.0%
ED Boarders	245	244	-0.4%
Average TOC	26.42	26.54	0.5%
90th Percentile TOC	55.80	54.71	-2.0%
Internal Disaster (Avg. Daily Minutes)	1.96	11.2	471.4%
Specialty Care Diversion (Avg Daily Minutes)	2802.54	3554	26.8%
Level Zero (Avg Daily Minutes)	100.43	51.6	-48.6%
ED's Closed to EMS Patients	Up to 16	≈0	-100%

During times of Surge

TOC times are similar to those prior to new Diversion Policy

Level zero times are lower than those prior to new Diversion Policy

Specialty Care Diversion times are higher than those prior to new Diversion Policy

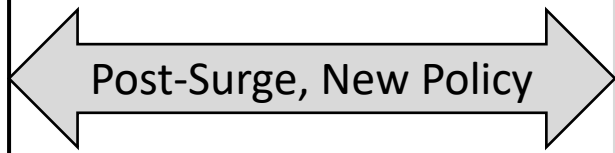
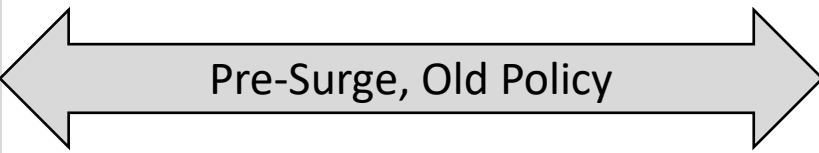
Follow up volumes (prehospital and ED) are higher than previous datasets, potentially contributing to any increased measures of system stress

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45 Days

Post-surge period
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Pre-Surge (11/1/21 – 12/15/21) vs. Post-Surge (2/18/22 – 3/22/22)

Metric	Pre-Surge	Post-Surge	Post-Surge Increase
Prehospital Volume	713	698	-2.1%
ED Volume	3305	3196	-3.3%
Average TOC	20.84	19.67	-5.61%
90th Percentile TOC	41.08	38.97	-5.14%
Average Hospital Time	43.84	41.65	-5.00%
90th Percentile Hospital Time	70.66	67.50	-4.47%
Internal Disaster (Avg. Daily Minutes)	5.29	4.09	-22.68%
Specialty Care Diversion (Avg Daily Minutes)	2194.42	2776.18	26.51%
Level Zero (Avg Daily Minutes)	49.60	4.27	-91.39%
Average Unit Assignment Time	1.00	0.84	-16.00%
90th Percentile Unit Assignment Time	2.21	1.46	-33.94%
Average Transport Time	17.38	16.97	-2.36%
90th Percentile Transport Time	29.46	28.45	-3.43%

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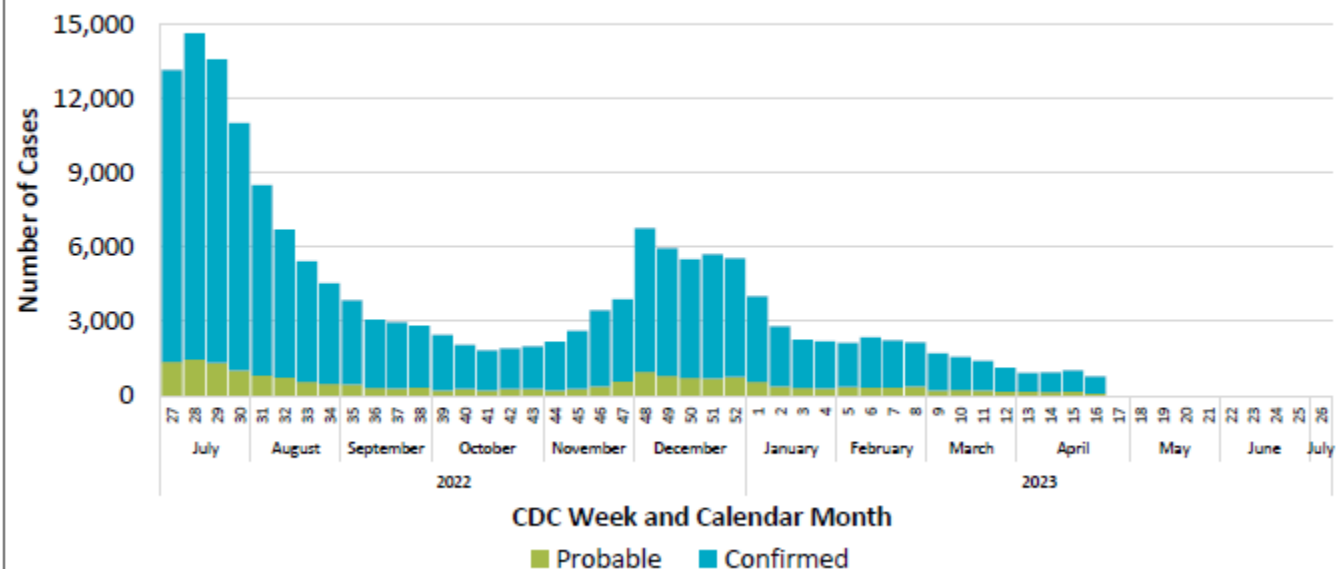
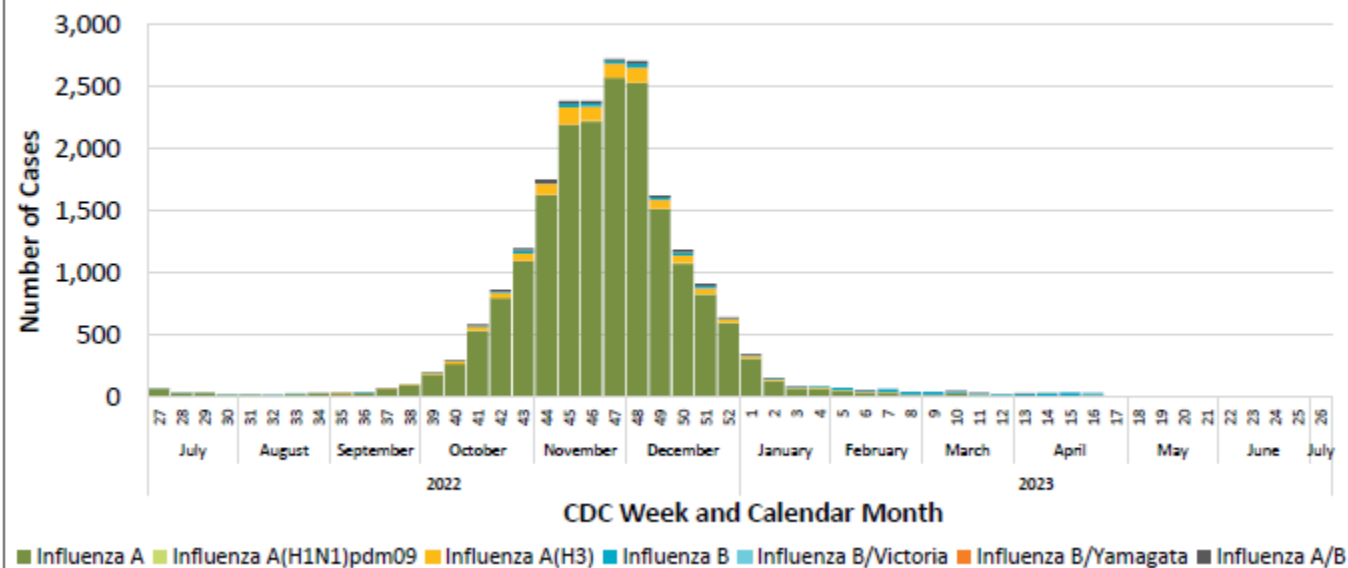


Figure 2.2. San Diego County Influenza Cases by Type and CDC Episode Week*, 2022-23 Fiscal Year-to-Date (N=21,326)



Pre-Surge (11/1/21 – 12/15/21) vs. Post-Surge Follow up (4/1/23 – 5/31/23)

Metric	Pre-Surge	Post-Surge Follow up	Percent Change
Prehospital Volume	713	725	1.7%
ED Volume	3305	3498	5.8%
ED Boarder	197	211	7.1%
Average TOC	20.84	23.78	14.1%
90th Percentile TOC	41.08	48.29	17.6%
Internal Disaster (Avg. Daily Minutes)	5.29	26 (93% single Hosp)	391.5% (-62%)
Specialty Care Diversion (Avg Daily Minutes)	2194.42	2343	6.8%
Level Zero (Avg Daily Minutes)	49.60	15.2	-69.4%
ED's Closed to EMS Patients	>0	≈0	-100%

During times of non-Surge

TOC times are higher than those prior to new Diversion Policy

Level zero times are lower than those prior to new Diversion Policy

Follow up volumes (prehospital and ED) and **ED Boarders** are higher than previous datasets, most likely contributing to any increased measures of system stress

Summary of Follow up Data

During times of Surge

- TOC times are similar to those prior to new Diversion Policy
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