

# 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

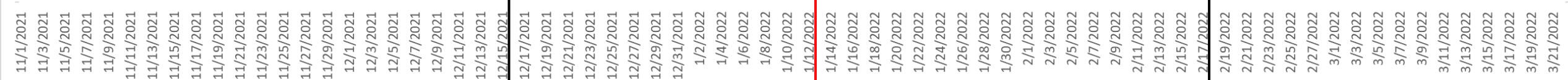
Surge, New Policy

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

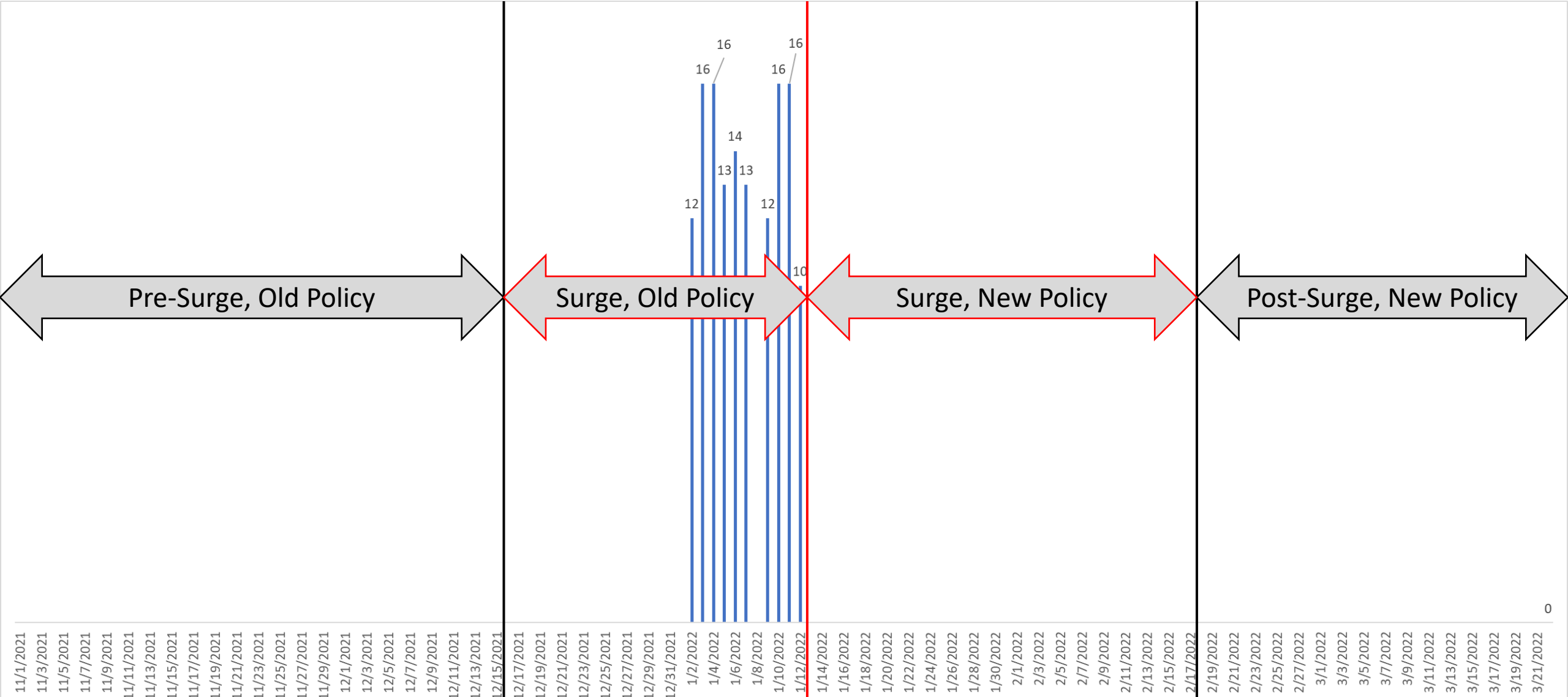


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Pre-Surge, Old Policy

Surge, Old Policy

Surge, New Policy

Post-Surge, New Policy

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

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Surge, Old Policy

Surge, New Policy

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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%
ED Boarders	245	296	20.7%
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)

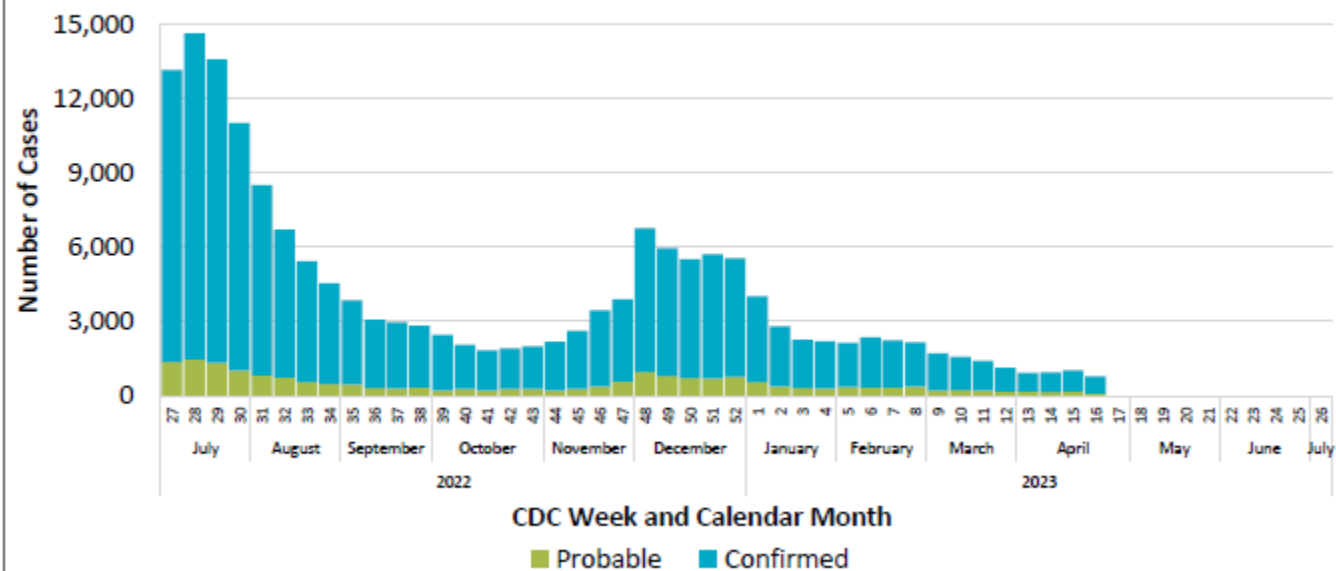
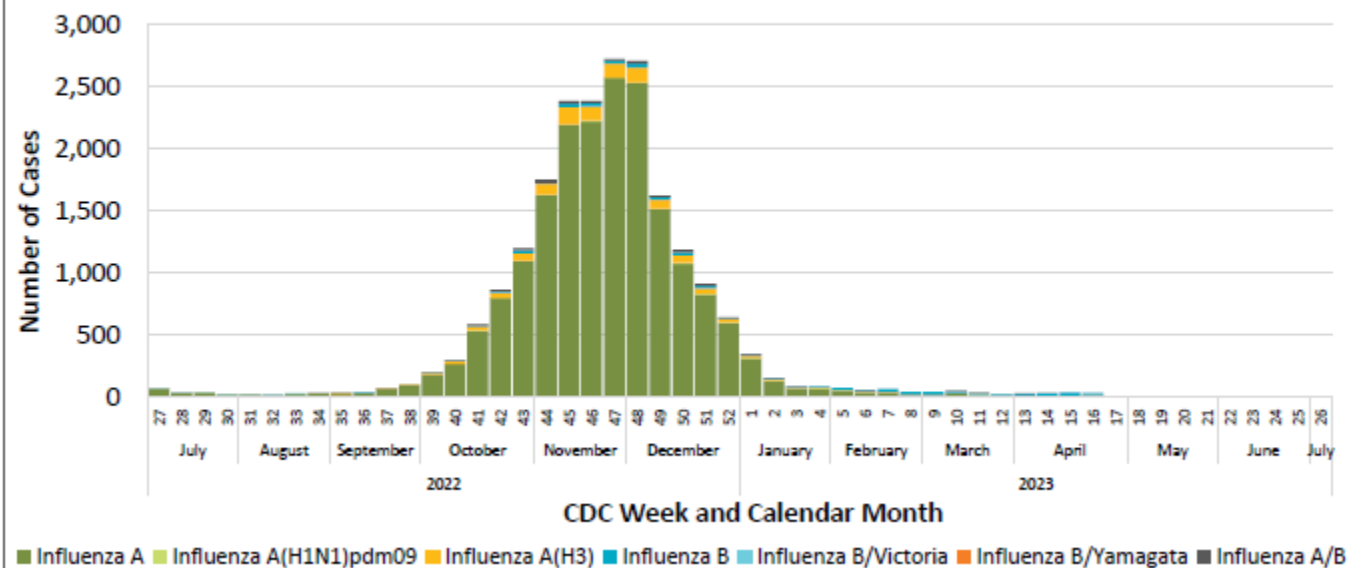


Figure 2.2. San Diego County Influenza Cases by Type and CDC Episode Week\*, 2022-23 Fiscal Year-to-Date (N=21,326)



Surge with Diversion (12/16/21 – 1/12/22) vs. Surge without Diversion (1/13/22 – 2/17/22)  
 vs. Surge Follow up (11/1/22 – 12/31/22)

Metric	Surge with Diversion	Surge without Diversion	Surge Follow up
Prehospital Volume	749	725	760
ED Volume	3434	3121	3538
ED Boarders	245	296	244
Average TOC	26.42	24.96	26.54
90th Percentile TOC	55.80	51.50	54.71
Average Hospital Time	50.43	47.62	
90th Percentile Hospital Time	85.46	79.09	
Internal Disaster (Avg. Daily Minutes)	1.96	53.53	11.2
Specialty Care Diversion (Avg Daily Minutes)	2802.54	2538.11	3554
Level Zero (Avg Daily Minutes)	100.43	33.86	51.6
Average Unit Assignment Time	1.08	0.93	
90th Percentile Unit Assignment Time	2.43	1.90	
Average Transport Time	18.15	17.02	
90th Percentile Transport Time	30.30	28.10	

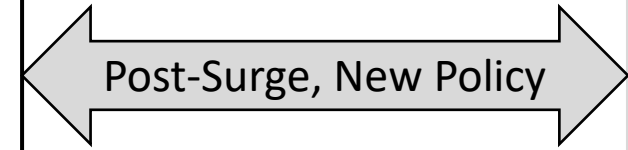
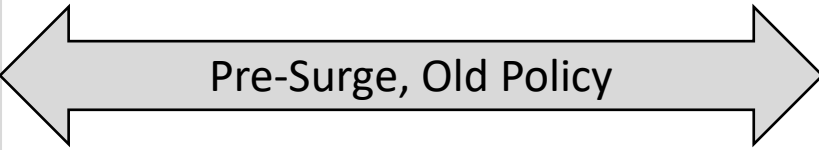


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Pre-surge period of  
less system stress,  
45 Days

Post-surge period  
of less system  
stress, 33 Days

Compare these two sets of Data

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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%
ED Boarders	197	183	-7.1%
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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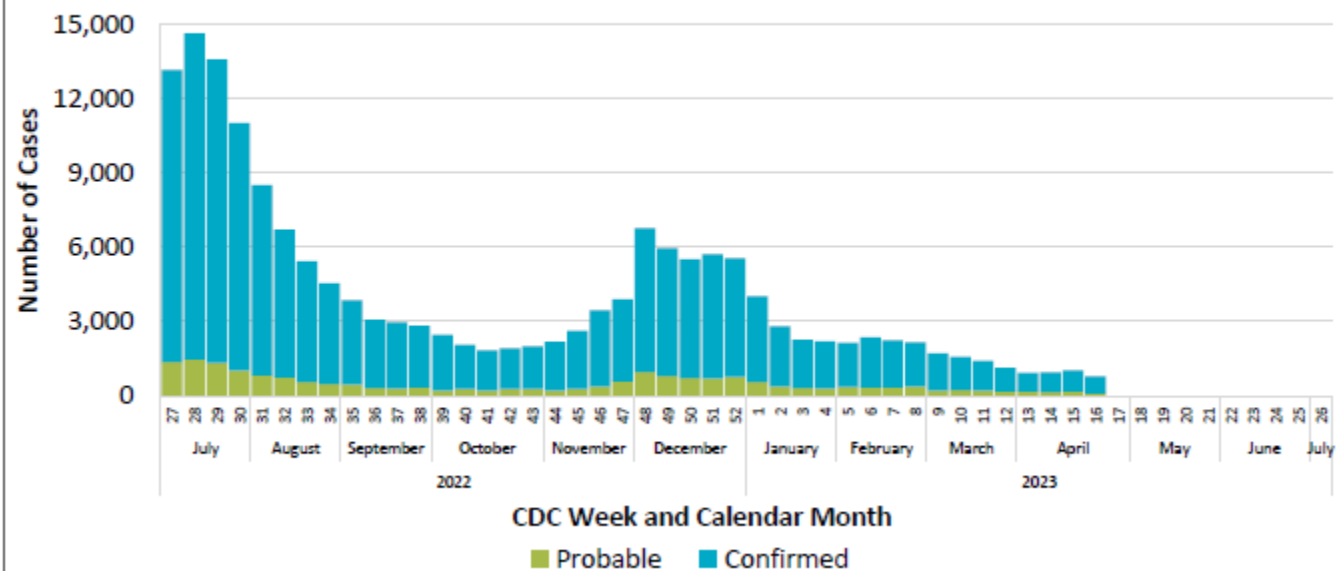
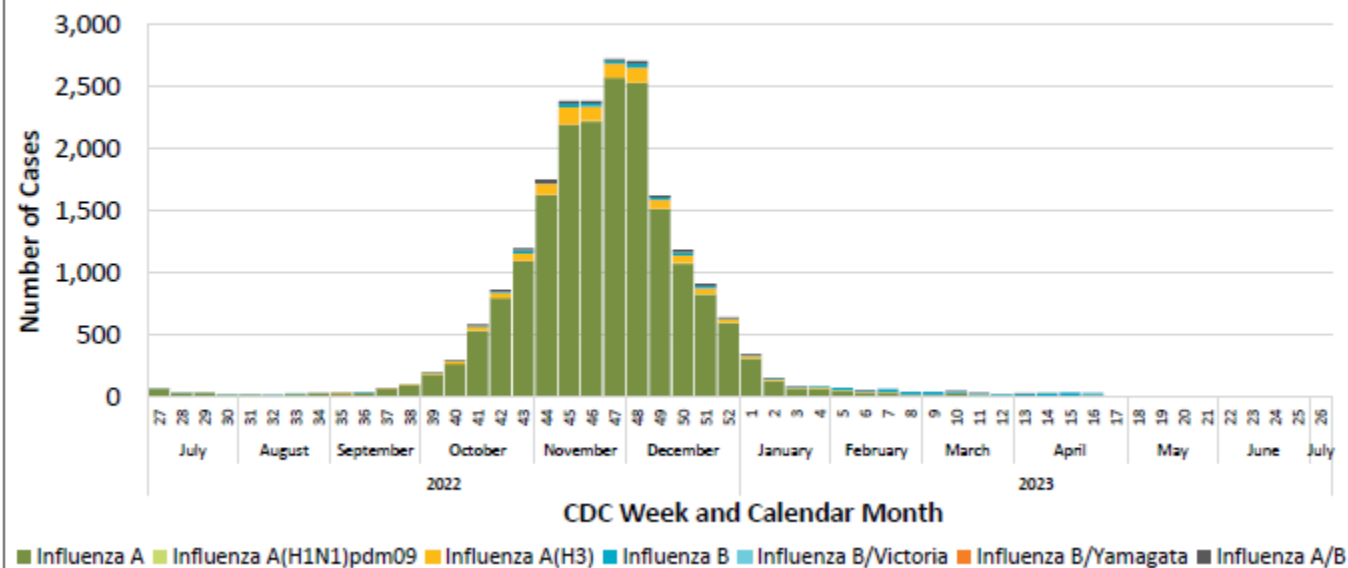


Figure 2.2. San Diego County Influenza Cases by Type and CDC Episode Week\*, 2022-23 Fiscal Year-to-Date (N=21,326)



Pre-Surge (11/1/21 – 12/15/21) vs. Post-Surge (2/18/22 – 3/22/22)  
vs. Post-Surge Follow up (4/1/23 – 5/31/23)

Metric	Pre-Surge	Post-Surge	Post-Surge Follow up
Prehospital Volume	713	698	725
ED Volume	3305	3196	3498
ED Boarder	197	183	211
Average TOC	20.84	19.67	23.78
90th Percentile TOC	41.08	38.97	48.29
Average Hospital Time	43.84	41.65	
90th Percentile Hospital Time	70.66	67.50	
Internal Disaster (Avg. Daily Minutes)	5.29	4.09	60 (26 for Civ Hosp)
Specialty Care Diversion (Avg Daily Minutes)	2194.42	2776.18	2343
Level Zero (Avg Daily Minutes)	49.60	4.27	15.2
Average Unit Assignment Time	1.00	0.84	
90th Percentile Unit Assignment Time	2.21	1.46	
Average Transport Time	17.38	16.97	
90th Percentile Transport Time	29.46	28.45	