SAN DIEGO COUNTY RESPIRATORY SURVEILLANCE

2023-24 SEASON

as of week 36 (ending 9/9/2023)

RESPIRATORY SURVEILLANCE UPDATE, 2023-24 YTD
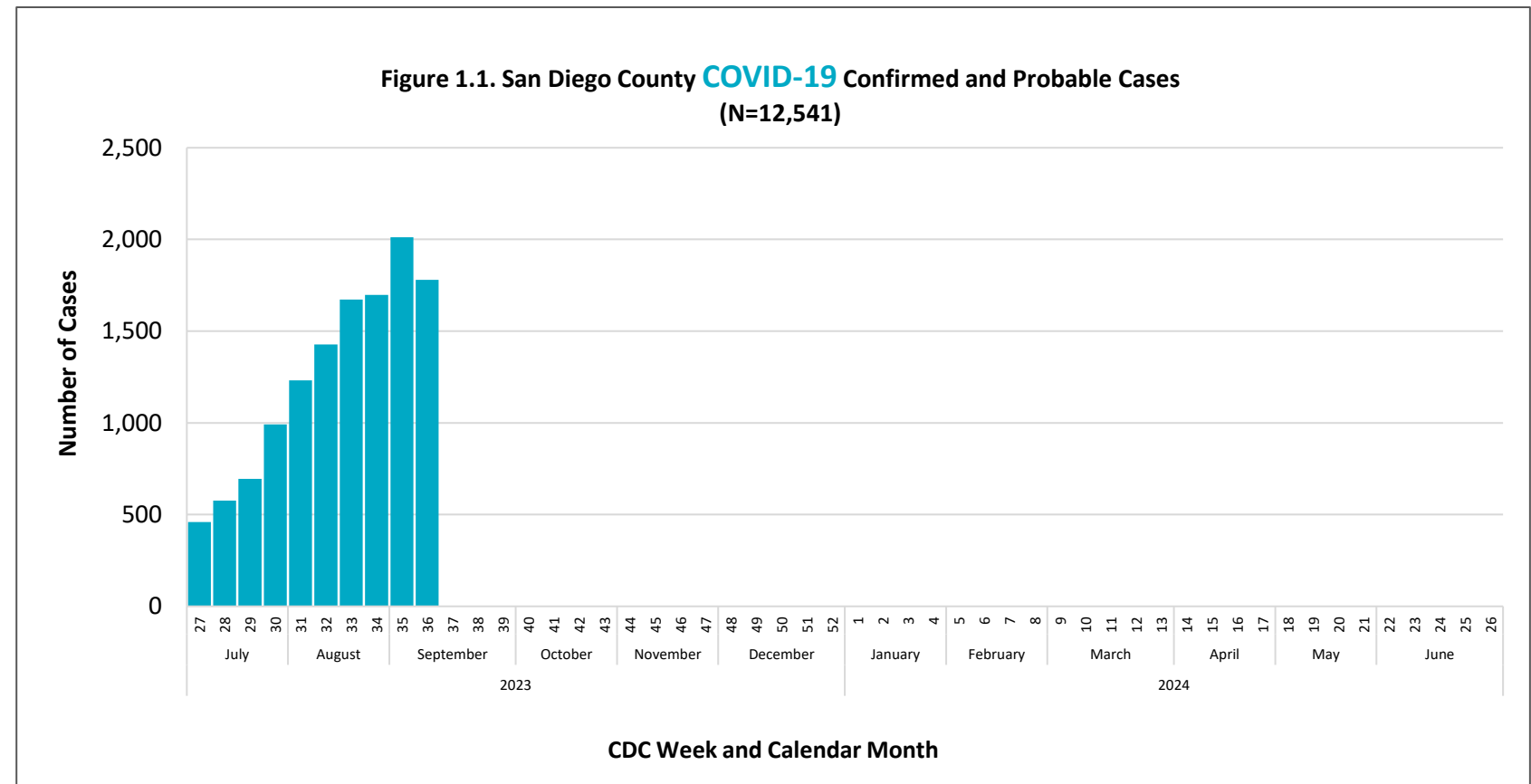
Reported Since September 9, 2023

Cases
12,541

Deaths
50

Outbreaks*
93

*In residential congregate settings

Figure 1.1. San Diego County COVID-19 Confirmed and Probable Cases (N=12,541)

CDC Week and Calendar Month

RESPIRATORY SURVEILLANCE UPDATE, 2023-24 YTD

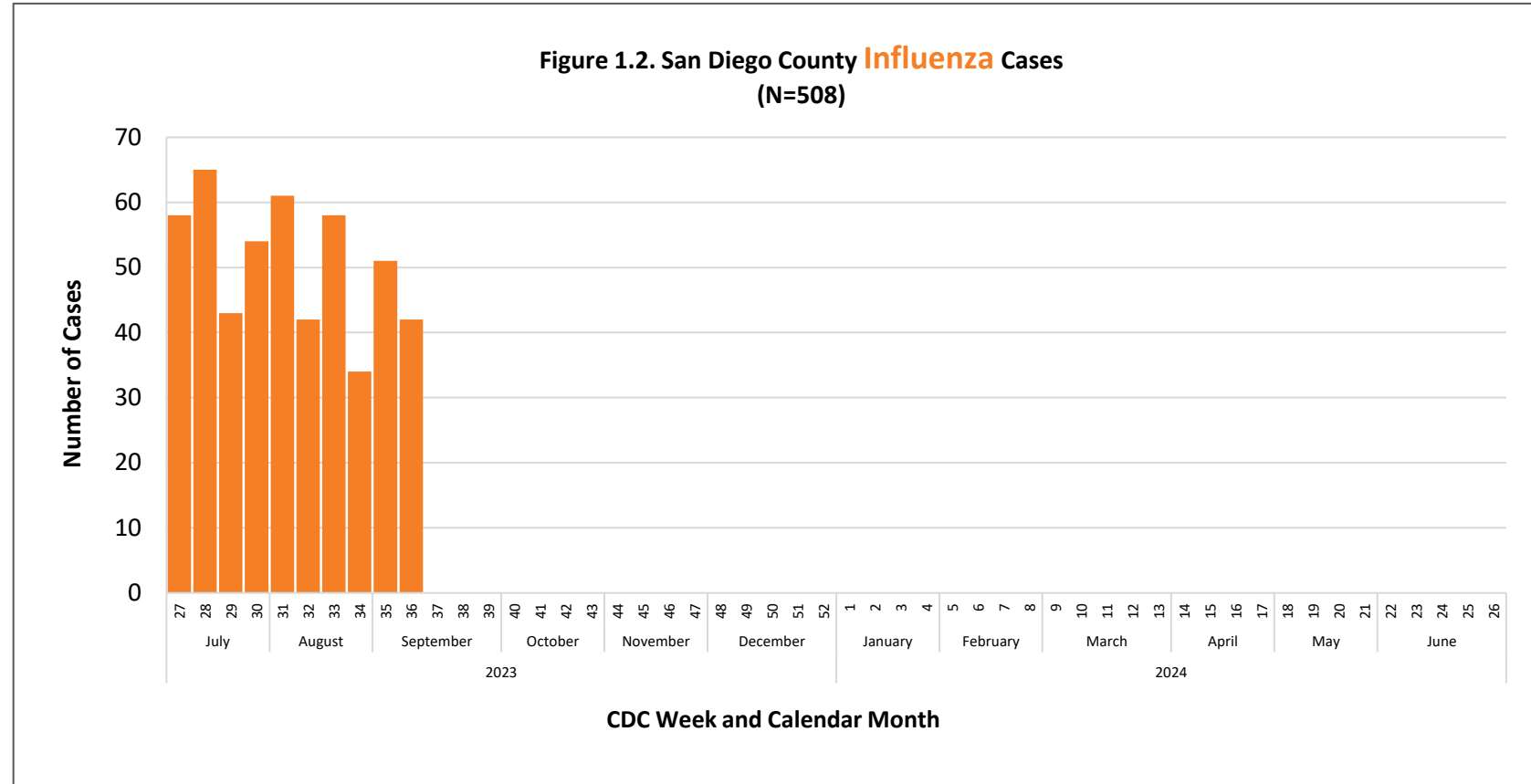**Reported Since September 9, 2023**

Cases
508

Deaths
1

Outbreaks*
0

*In residential congregate settings

Figure 1.2. San Diego County Influenza Cases (N=508)

RESPIRATORY SURVEILLANCE UPDATE, 2023-24 YTD
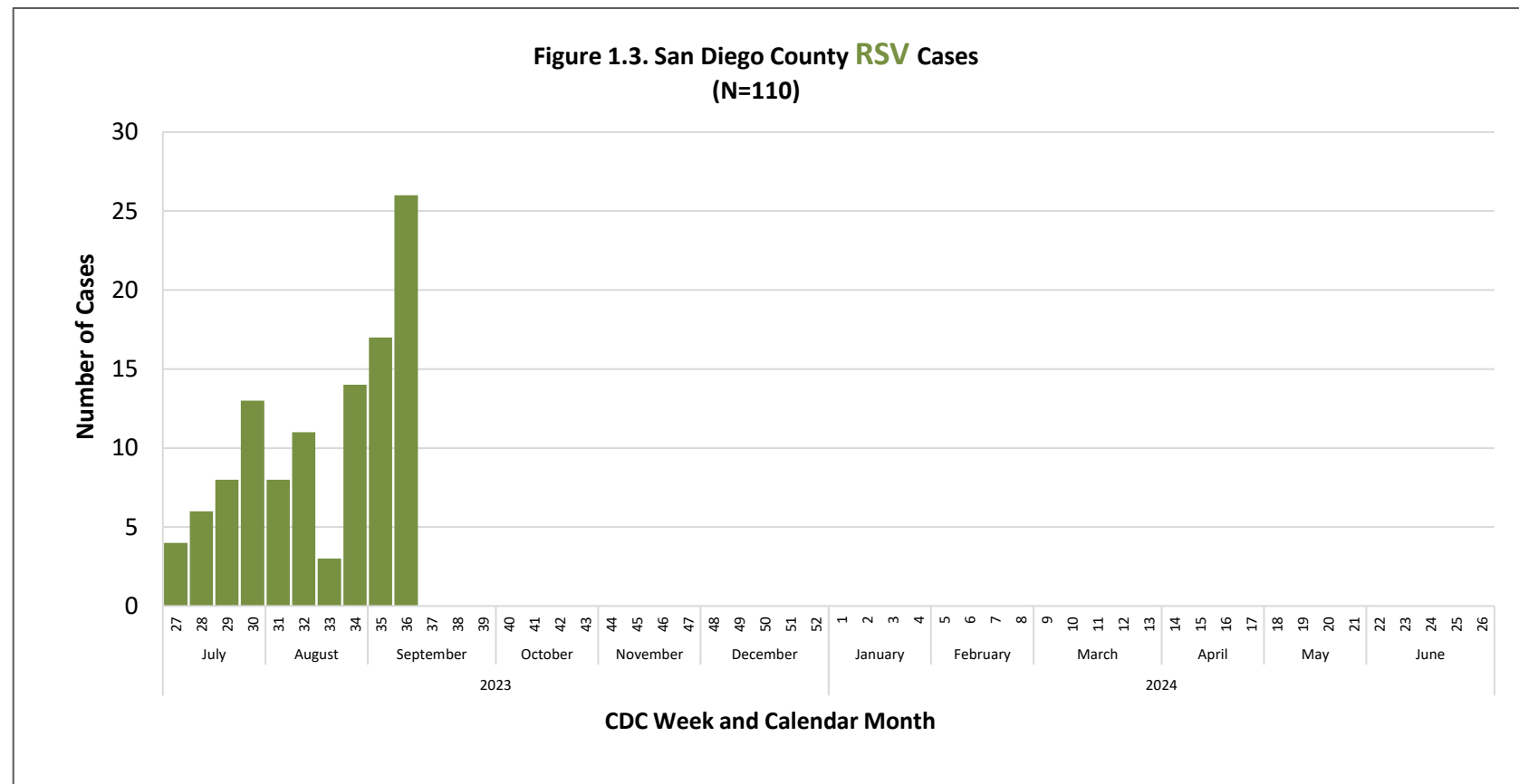
Reported Since September 9, 2023

Cases
110

Deaths
0

Outbreaks*
0

*In residential congregate settings

Figure 1.3. San Diego County RSV Cases
(N=110)

CDC Week and Calendar Month

Table 1. Respiratory Surveillance Indicators

Indicator	2023-24 Fiscal Year			2022-23 Fiscal Year			Prior Years Average*		
	Week 36	Total To Date	Week 35	Week 36	Total To Date	FY Total	Week 36	Total To Date	FY Total
% P&I deaths†	6%		5%	6%			7%		
CASES									
COVID-19‡	1,779	12,541	2,012	3,051	84,170	177,369	3,653	59,724	352,186
Influenza	42	508	51	43	386	21,711	15	140	11,426
RSV	26	110	17	58	238	5,885	39	175	2,749
DEATHS§									
COVID-19	10	50	10	9	130	630	27	240	1,889
Influenza	0	1	0	0	0	43	0	0	48
RSV	0	0	0	0	1	21	0	0	8
HOSPITALIZATIONS¶									
COVID-19	169	108	168	231	345	223	344	355	358
Influenza	6	5	4						
OUTBREAKS#									
COVID-19	0	93	11	6	101	498	6	88	513
Influenza	0	0	0	0	0	25	0	0	22
RSV	0	0	0	0	0	2	0	0	1
SYNDROMIC SURVEILLANCE									
% ED CLI**	3%		3%	3%			3%		
% ED ILI††	3%		3%	3%			2%		
% Resp General	13%		13%	14%			12%		

FY 2023-24 is 7/2/2023- 6/29/2024, Weeks 27-26. Previous weeks' case counts or percentages may change due to delayed processing or reporting.
*Includes FYs 2018-19, 2019-20, 2020-21, 2021-22, and 2022-23 for influenza and 2020-21, 2021-22, and 2022-23 for COVID-19 and RSV.
†The percentage of deaths registered with pneumonia or influenza listed as a cause of death.
‡Confirmed and probable COVID-19 cases.
§Current FY deaths are shown by week of report; prior FY deaths are shown by week of death.
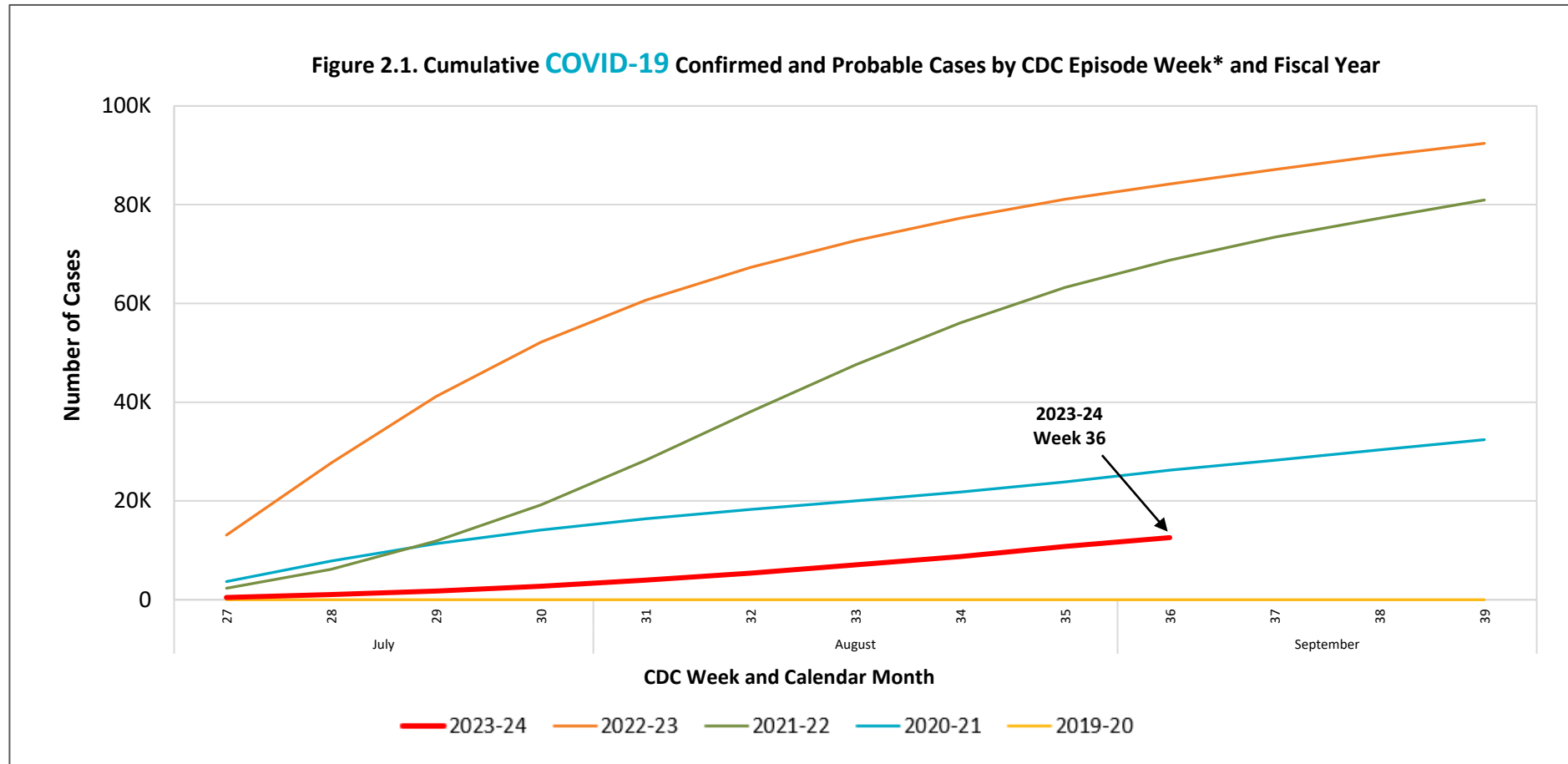¶Average daily census for the week. Yearly averages in lieu of totals to date and FY total.
#Includes only outbreaks occurring in skilled nursing facilities and other residential congregate settings.
**COVID-like Illness (CLI) includes fever and cough, shortness of breath, or difficulty breathing OR coronavirus diagnostic codes.
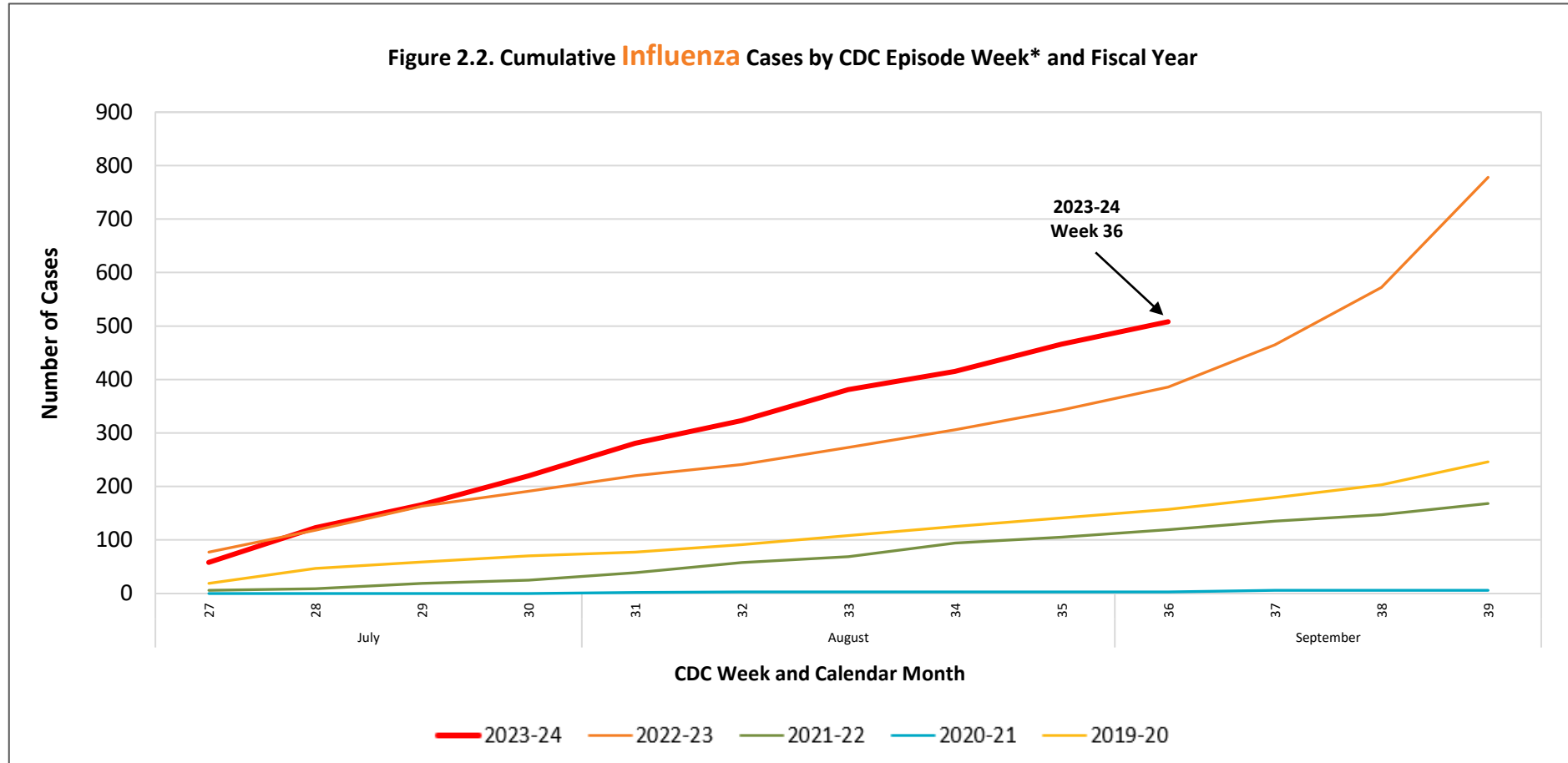††Influenza-like illness (ILI) includes fever plus cough and/or sore throat.

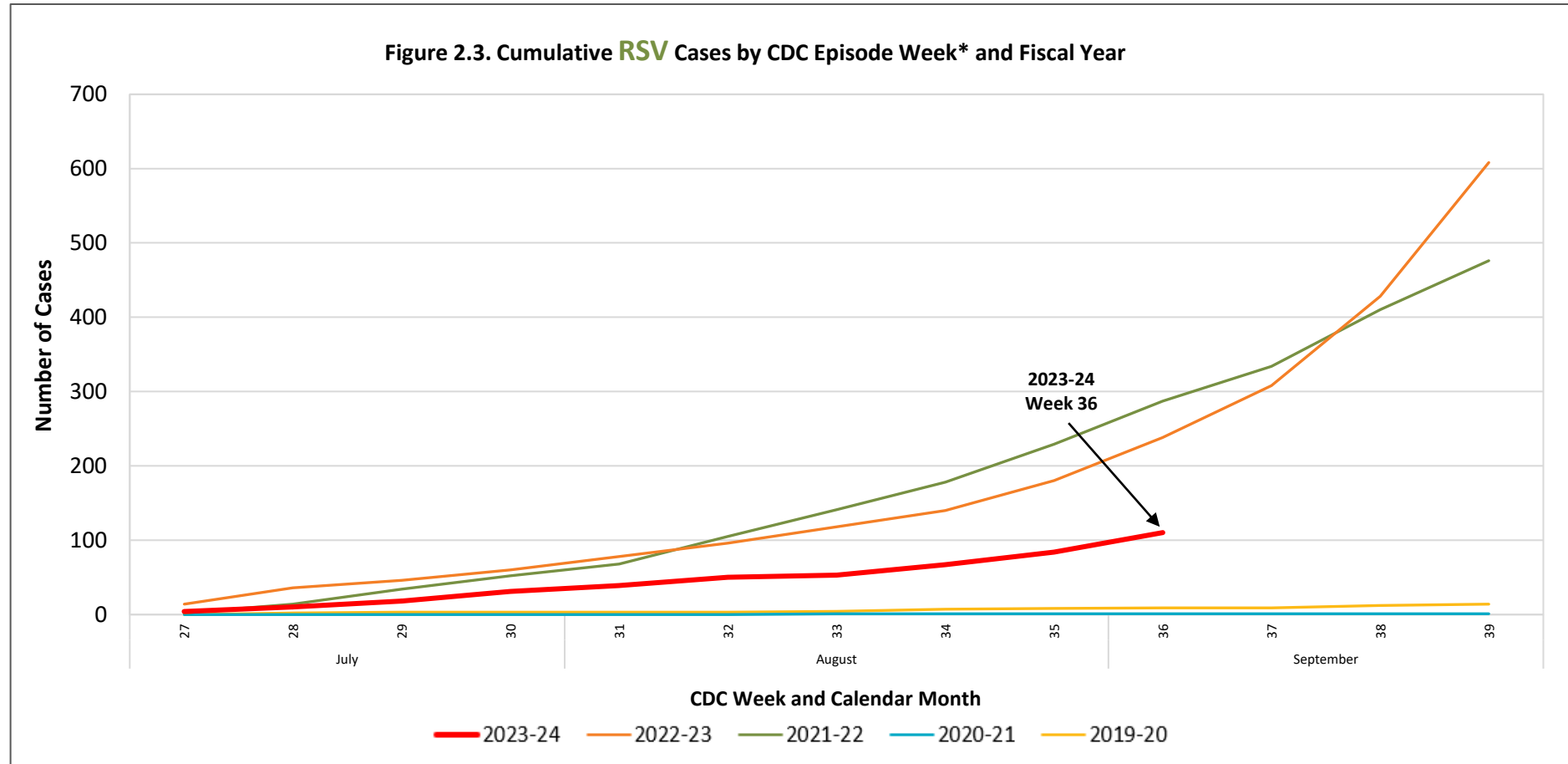# Respiratory Surveillance Update, 2023-24 YTD

Figure 2.1. Cumulative COVID-19 Confirmed and Probable Cases by CDC Episode Week* and Fiscal Year

*Episode date is the earliest available of symptom onset date, specimen collection date, date of death, date reported.

Figure 2.2. Cumulative **Influenza** Cases by CDC Episode Week* and Fiscal Year

*Episode date is the earliest available of symptom onset date, specimen collection date, date of death, date reported.

Preliminary Results
Data Source: San Diego County Communicable Disease Registry
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

Respiratory Surveillance Update, 2023-24 YTD

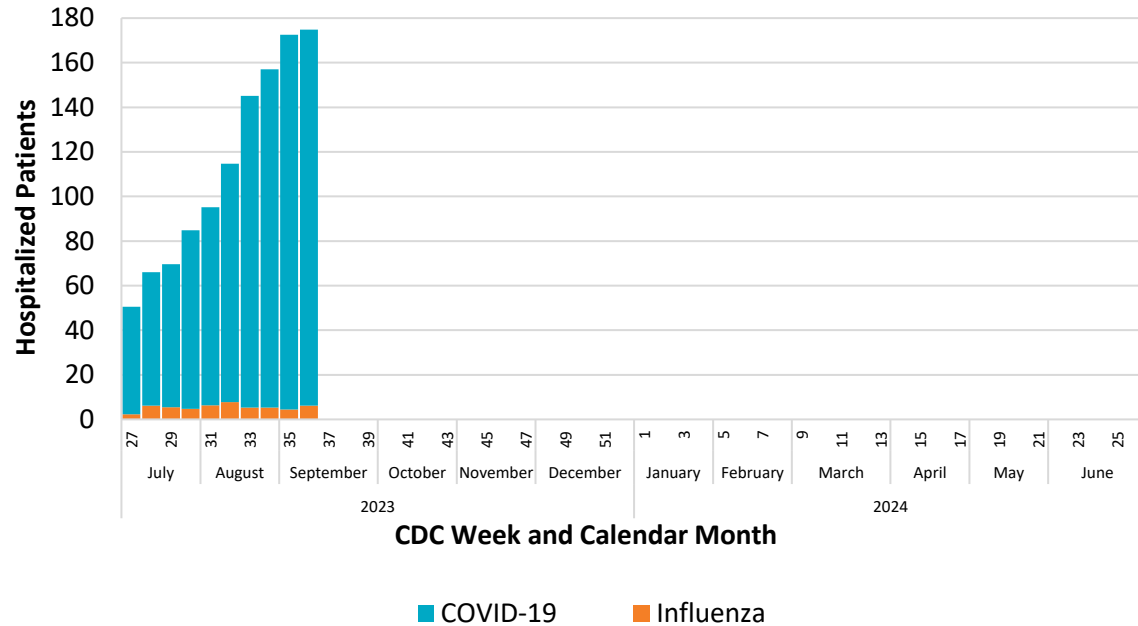**Figure 2.3. Cumulative RSV Cases by CDC Episode Week* and Fiscal Year**

*Episode date is the earliest available of symptom onset date, specimen collection date, date of death, date reported.
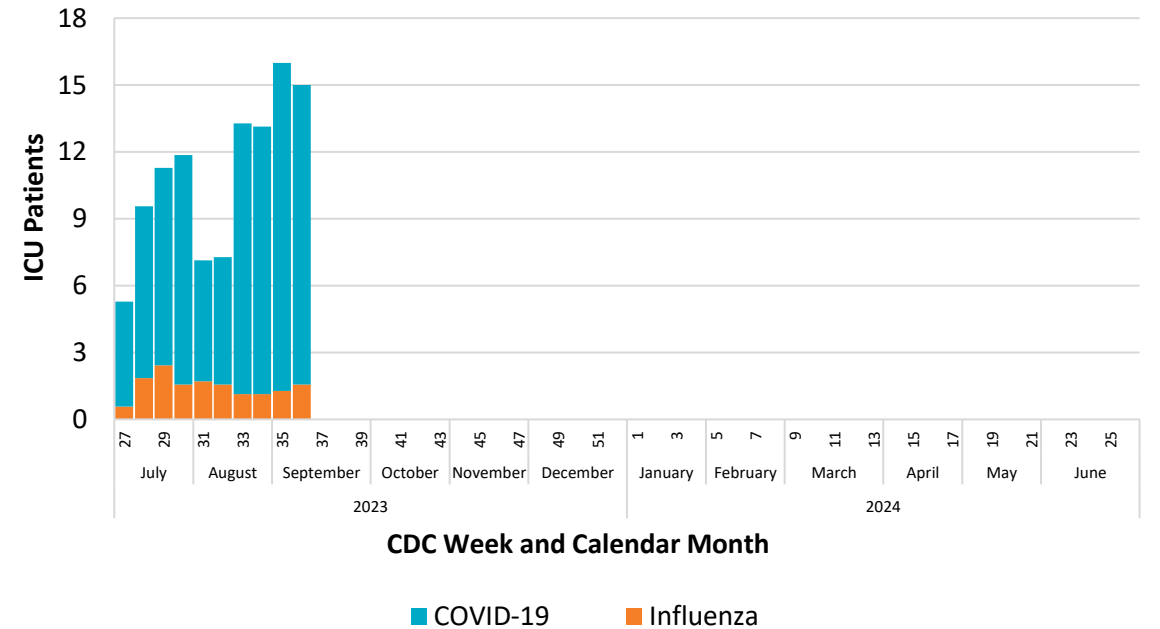
Respiratory Surveillance Update, 2023-24 YTD

Figure 3. COVID-19 and Influenza-Positive Hospitalized Patients, 7-Day Rolling Average, San Diego County

Figure 4. COVID-19 and Influenza-Positive ICU Patients, 7-Day Rolling Average, San Diego County

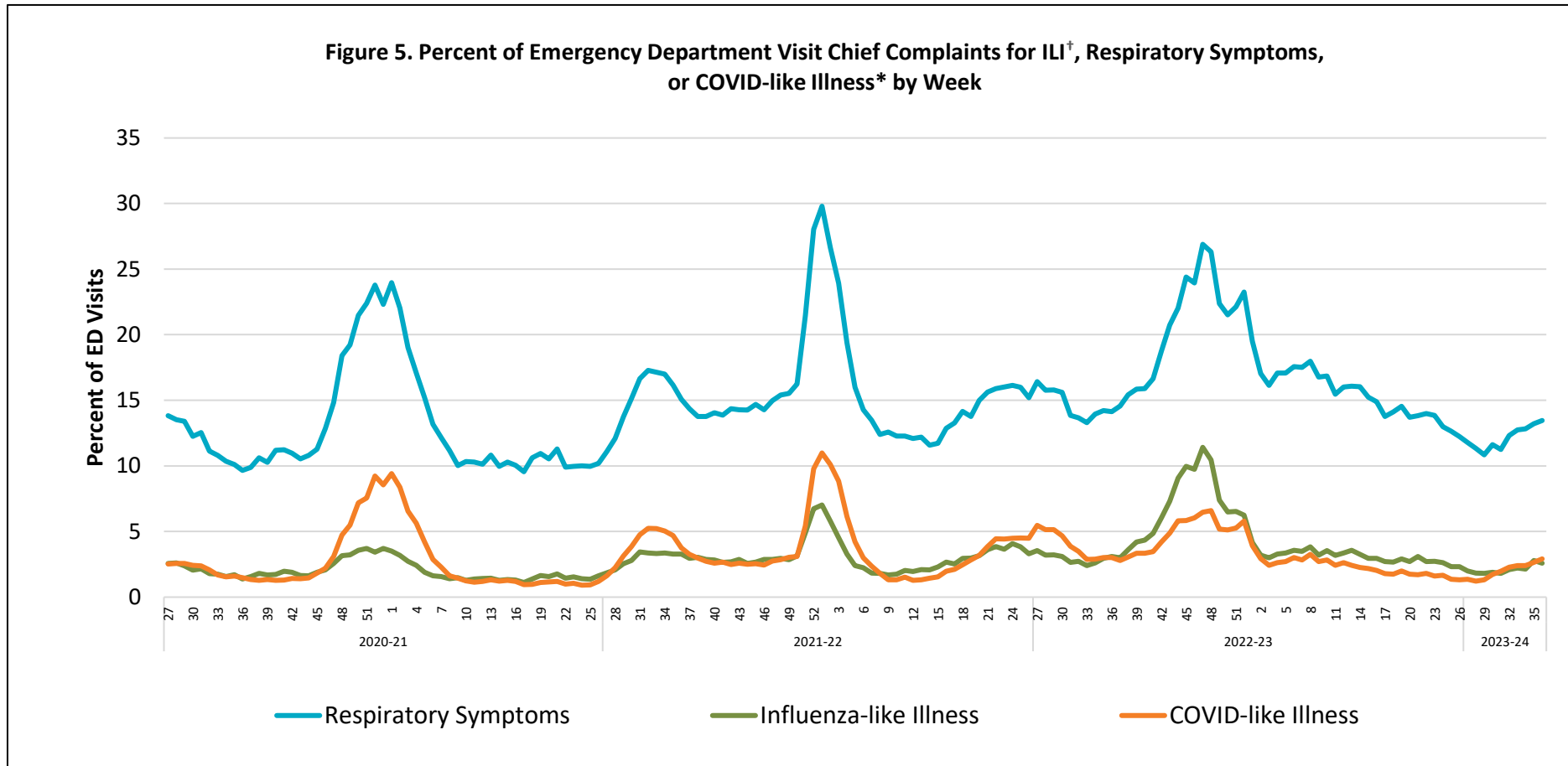# Respiratory Surveillance Update, 2023-24 YTD

Figure 5. Percent of Emergency Department Visit Chief Complaints for ILI[†], Respiratory Symptoms, or COVID-like Illness* by Week

*COVID-like Illness (CLI) includes fever and cough, shortness of breath, or difficulty breathing OR coronavirus diagnostic codes.
†Influenza-like illness (ILI) includes fever plus cough and/or sore throat.
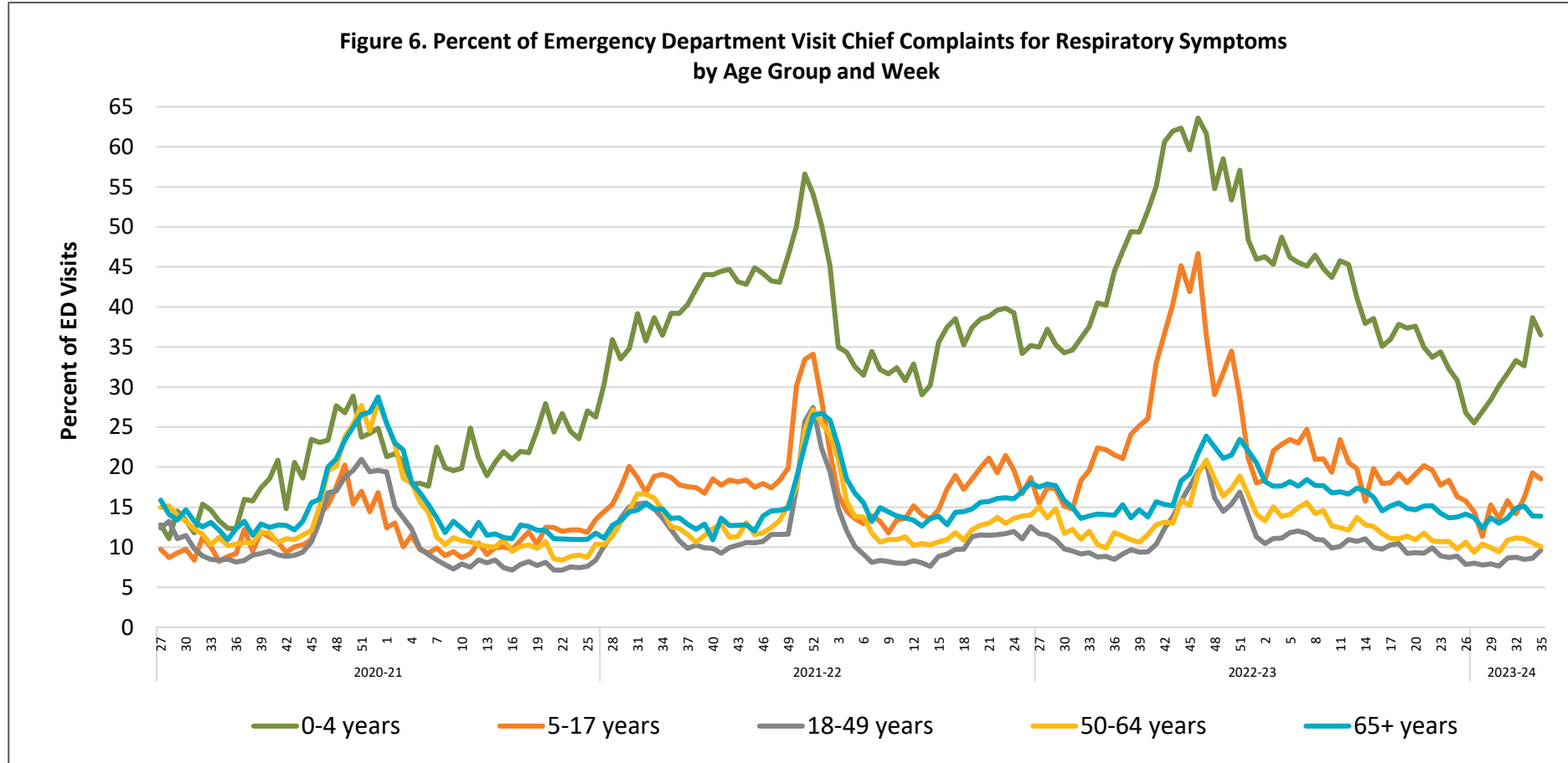
Preliminary Results
Data Source: Emergency Department Chief Complaint Data
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

RESPIRATORY SURVEILLANCE UPDATE, 2023-24 YTD

Figure 6. Percent of Emergency Department Visit Chief Complaints for Respiratory Symptoms by Age Group and Week

Legend: 0-4 years, 5-17 years, 18-49 years, 50-64 years, 65+ years

*COVID-like Illness (CLI) includes fever and cough, shortness of breath, or difficulty breathing OR coronavirus diagnostic codes.

†Influenza-like illness (ILI) includes fever plus cough and/or sore throat.

Preliminary Results
Data Source: Emergency Department Chief Complaint Data
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

Respiratory Surveillance Update, 2023-24 YTD

0-4 yrs **5-17 yrs** **18-49 yrs** **50-64 yrs** **65+ yrs**
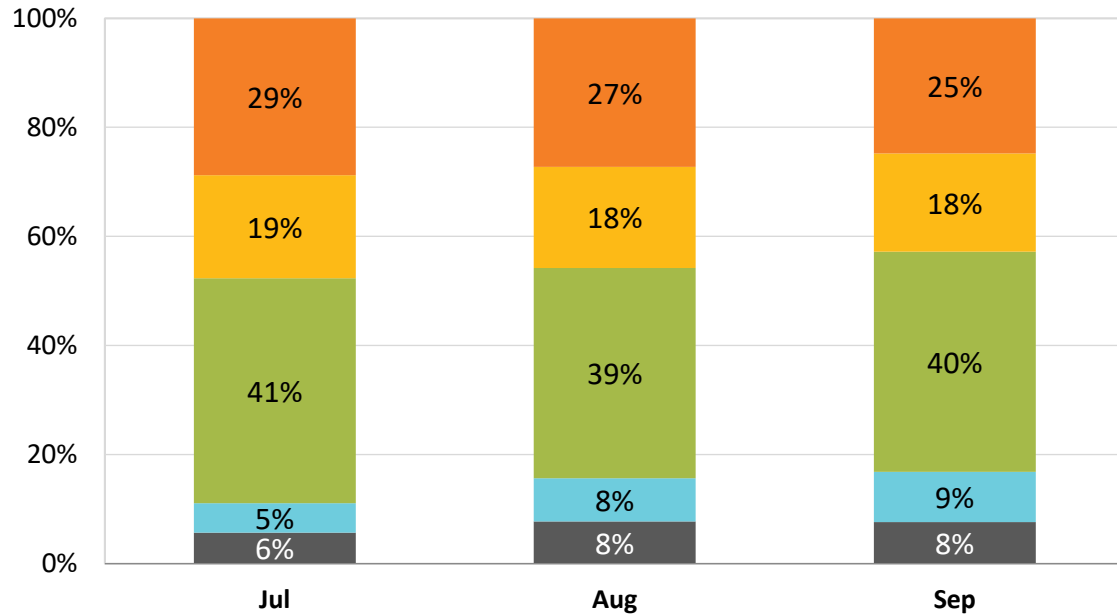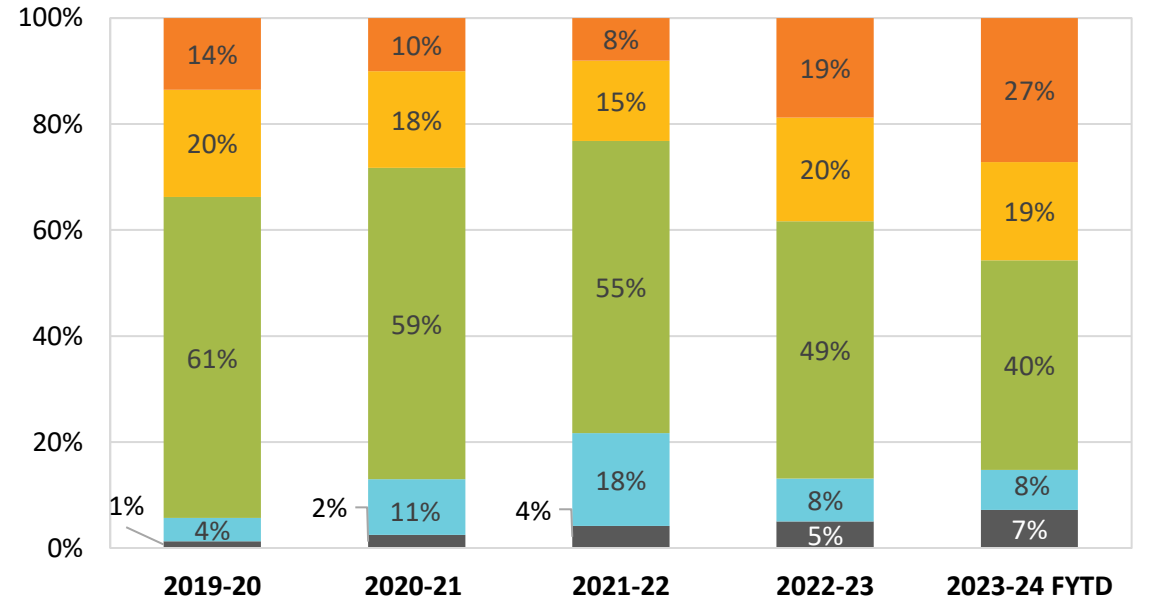
Figure 7. Proportion of COVID-19 Cases by Month

Month	65+ yrs	50-64 yrs	18-49 yrs	5-17 yrs	0-4 yrs
Jul	29%	19%	41%	5%	6%
Aug	27%	18%	39%	8%	8%
Sep	25%	18%	40%	9%	8%

Figure 8. Proportion of COVID-19 Cases by Age Group and Fiscal Year

Fiscal Year	65+ yrs	50-64 yrs	18-49 yrs	5-17 yrs	0-4 yrs
2019-20	14%	20%	61%	4%	1%
2020-21	10%	18%	59%	11%	2%
2021-22	8%	15%	55%	18%	4%
2022-23	19%	20%	49%	8%	5%
2023-24 FYTD	27%	19%	40%	8%	7%

Respiratory Surveillance Update, 2023-24 YTD

Legend: ■ 0-4 yrs ■ 5-17 yrs ■ 18-49 yrs ■ 50-64 yrs ■ 65+ yrs

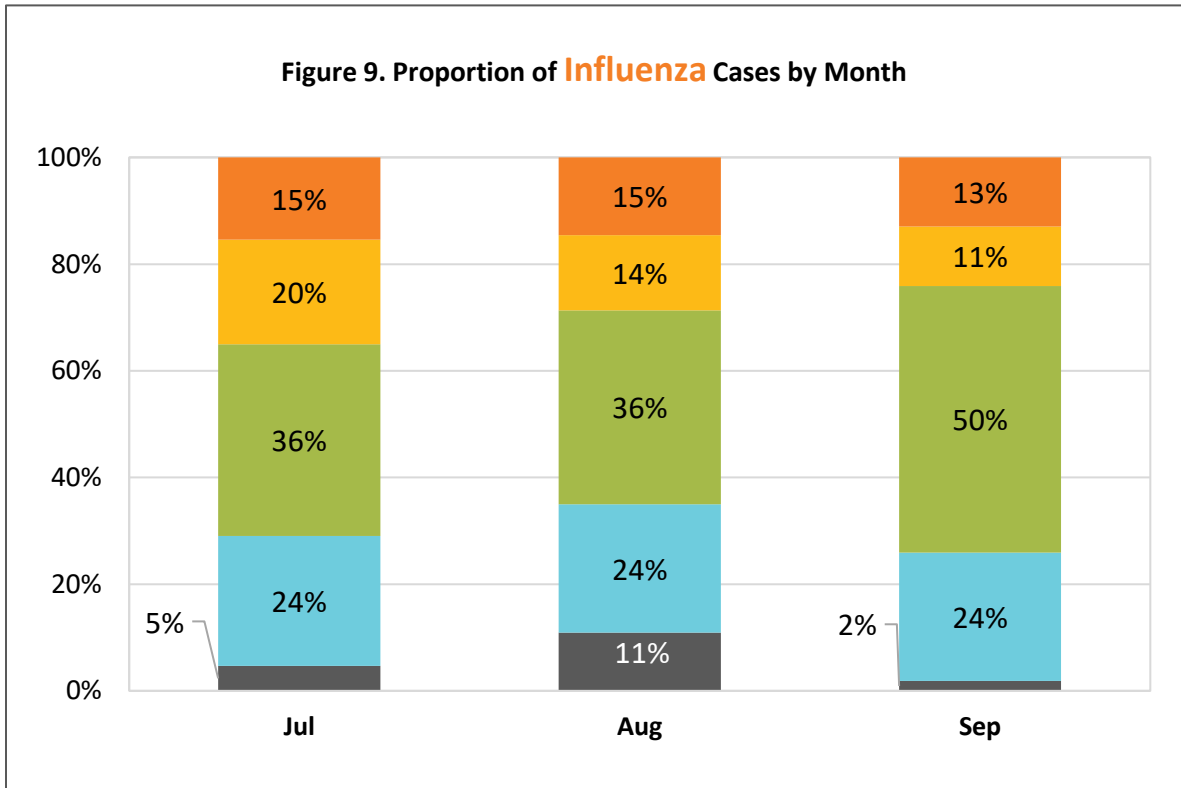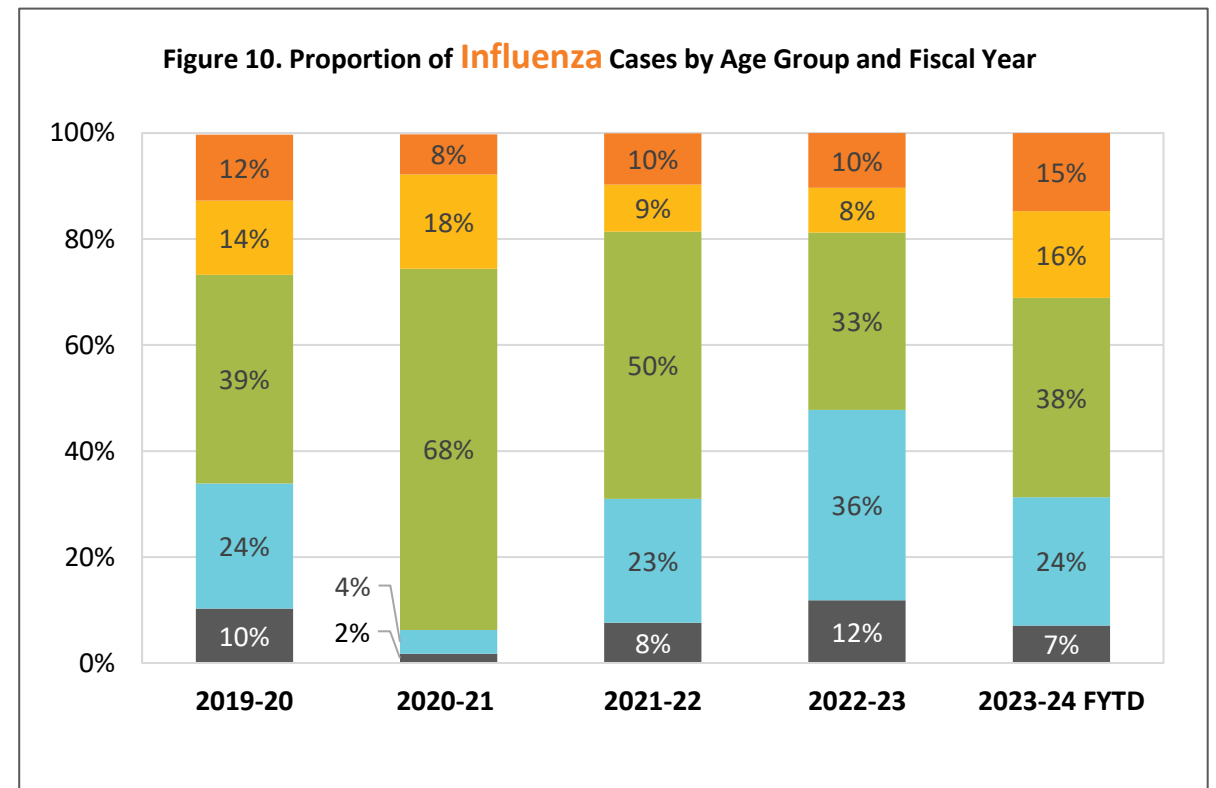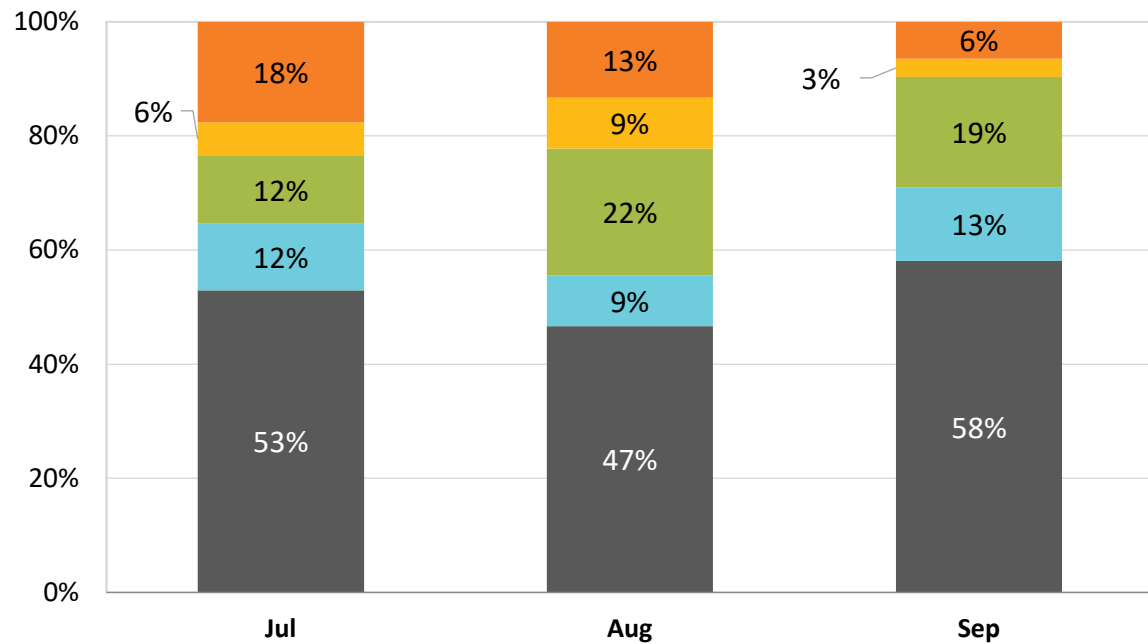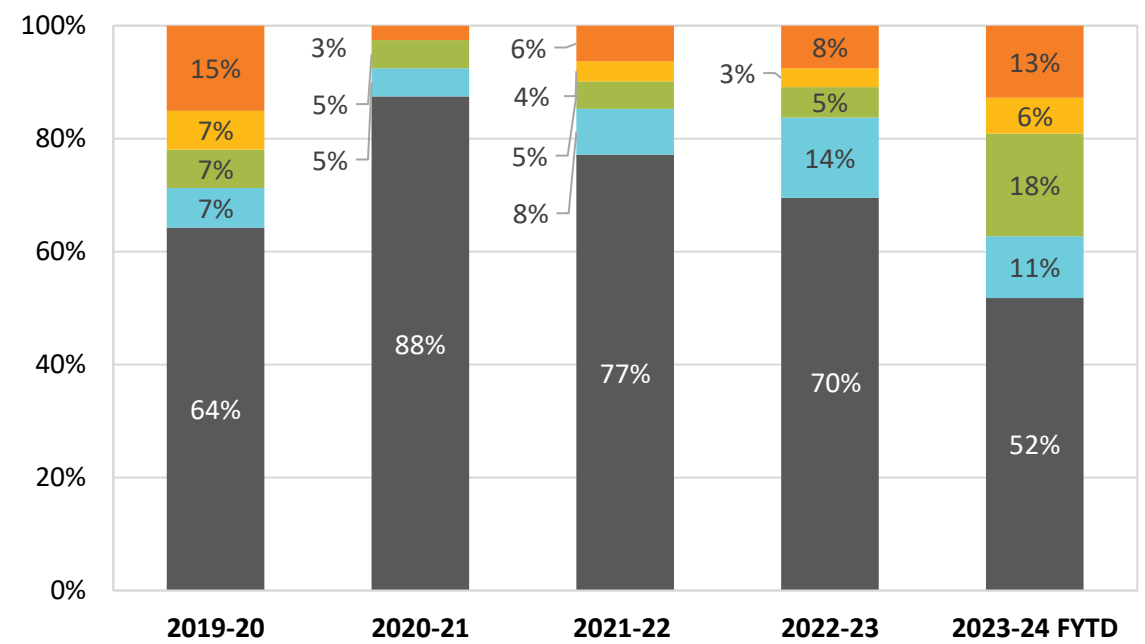**Figure 9. Proportion of Influenza Cases by Month**

	Jul	Aug	Sep
65+ yrs	15%	15%	13%
50-64 yrs	20%	14%	11%
18-49 yrs	36%	36%	50%
5-17 yrs	24%	24%	24%
0-4 yrs	5%	11%	2%

Figure 10. Proportion of Influenza Cases by Age Group and Fiscal Year

	2019-20	2020-21	2021-22	2022-23	2023-24 FYTD
65+ yrs	12%	8%	10%	10%	15%
50-64 yrs	14%	18%	9%	8%	16%
18-49 yrs	39%	68%	50%	33%	38%
5-17 yrs	24%	4%	23%	36%	24%
0-4 yrs	10%	2%	8%	12%	7%

Legend: ■ 0-4 yrs ■ 5-17 yrs ■ 18-49 yrs ■ 50-64 yrs ■ 65+ yrs

Figure 11. Proportion of RSV Cases by Month

Age Group	Jul	Aug	Sep
65+ yrs	18%	13%	6%
50-64 yrs	6%	9%	3%
18-49 yrs	12%	22%	19%
5-17 yrs	12%	9%	13%
0-4 yrs	53%	47%	58%

Figure 12. Proportion of RSV Cases by Age Group and Fiscal Year

Age Group	2019-20	2020-21	2021-22	2022-23	2023-24 FYTD
65+ yrs	15%	3%	6%	8%	13%
50-64 yrs	7%		4%	3%	6%
18-49 yrs	7%	5%	5%	5%	18%
5-17 yrs	7%	5%	8%	14%	11%
0-4 yrs	64%	88%	77%	70%	52%

Respiratory Surveillance Update, 2023-24 YTD

Figure 13. COVID-19, Influenza, and RSV Positivity by Week of Specimen Collection
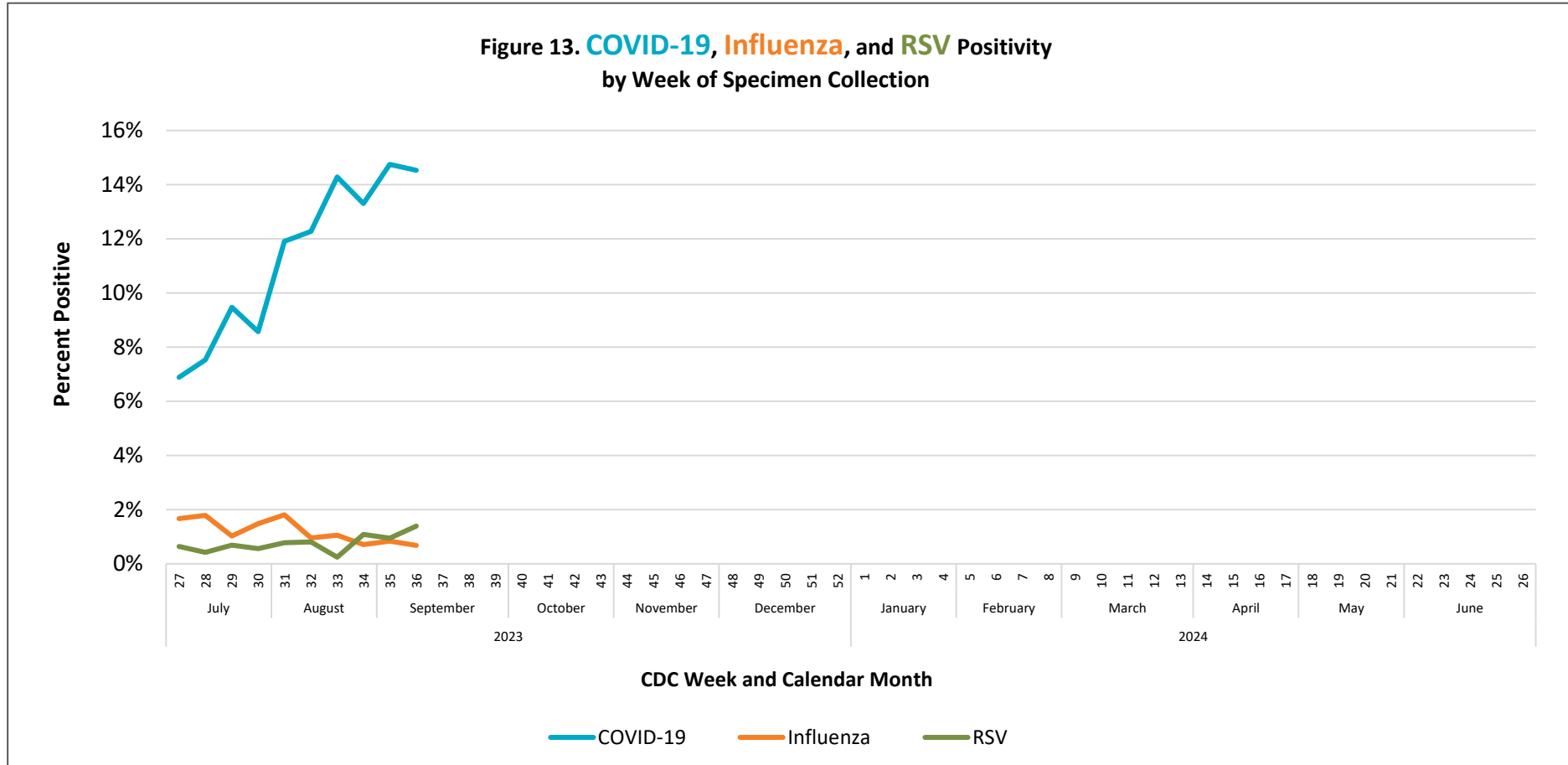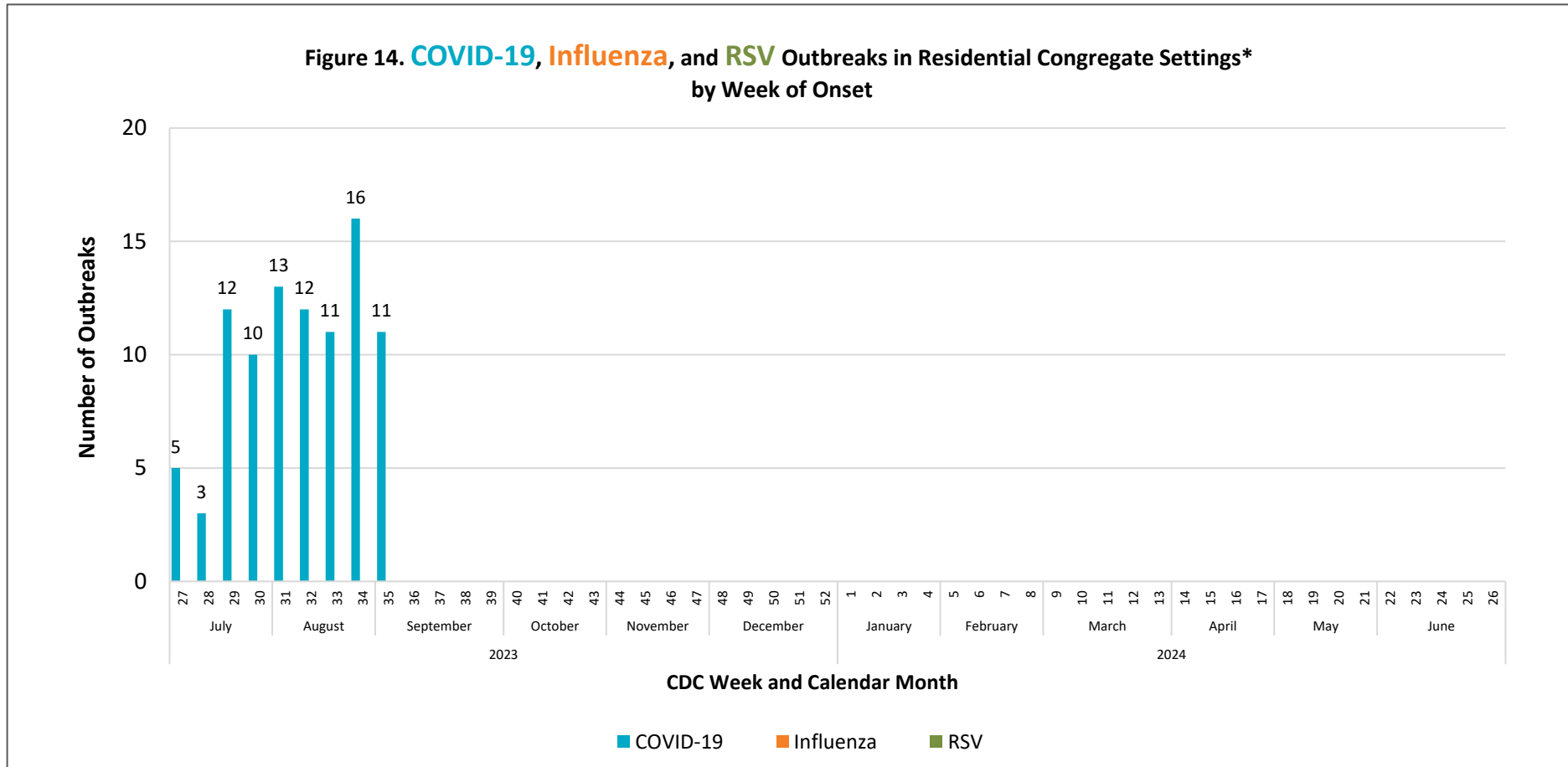

Preliminary Results
Data Source: San Diego County Communicable Disease Registry
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch
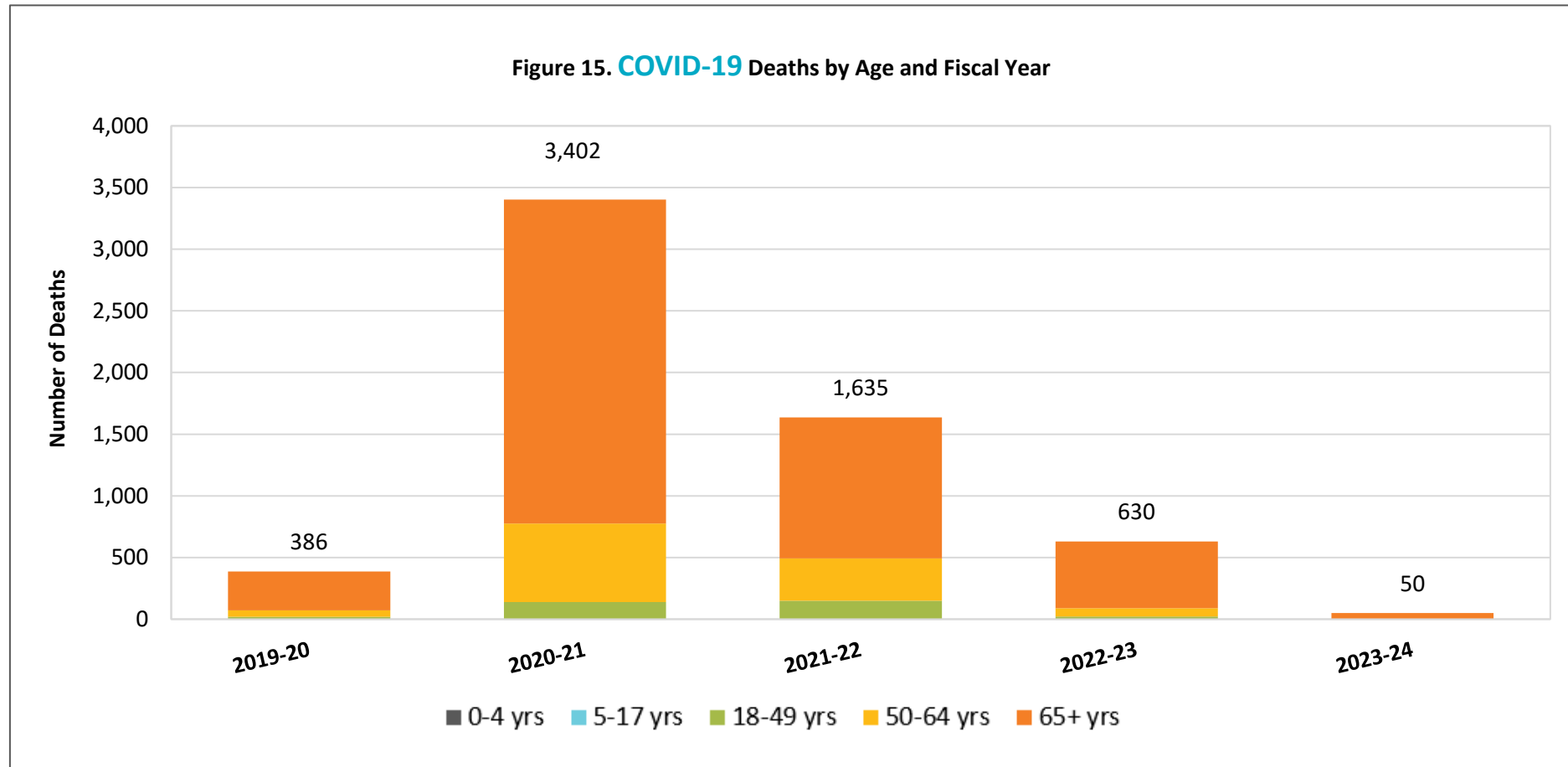
Figure 14. COVID-19, Influenza, and RSV Outbreaks in Residential Congregate Settings* by Week of Onset

*Includes skilled nursing facilities, assisted living facilities, group homes, correctional facilities, homeless shelters.
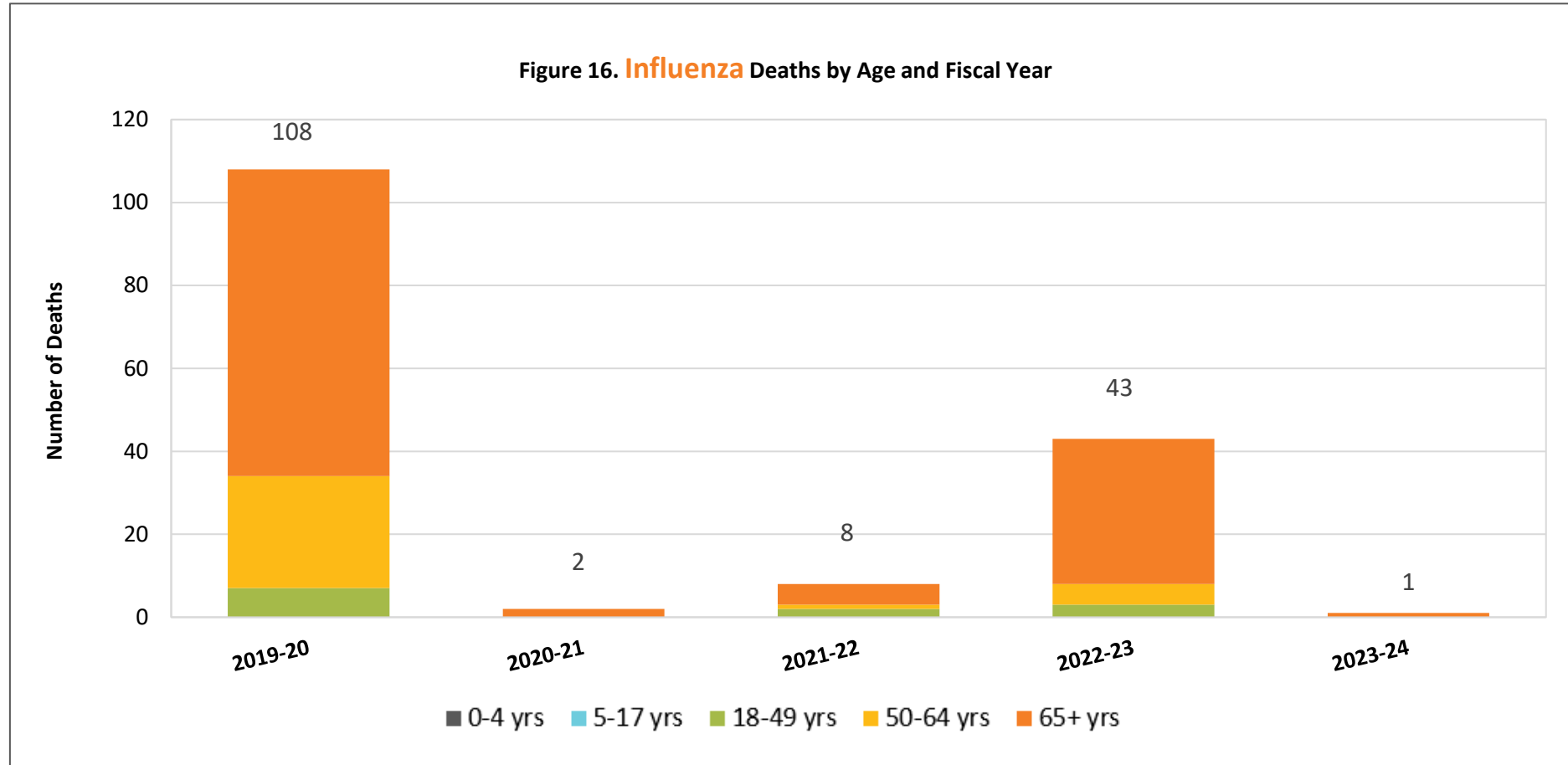
Preliminary Results
Data Source: San Diego County Communicable Disease Registry
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

RESPIRATORY SURVEILLANCE UPDATE, 2023-24 YTD

Figure 15. COVID-19 Deaths by Age and Fiscal Year

Legend: 0-4 yrs | 5-17 yrs | 18-49 yrs | 50-64 yrs | 65+ yrs
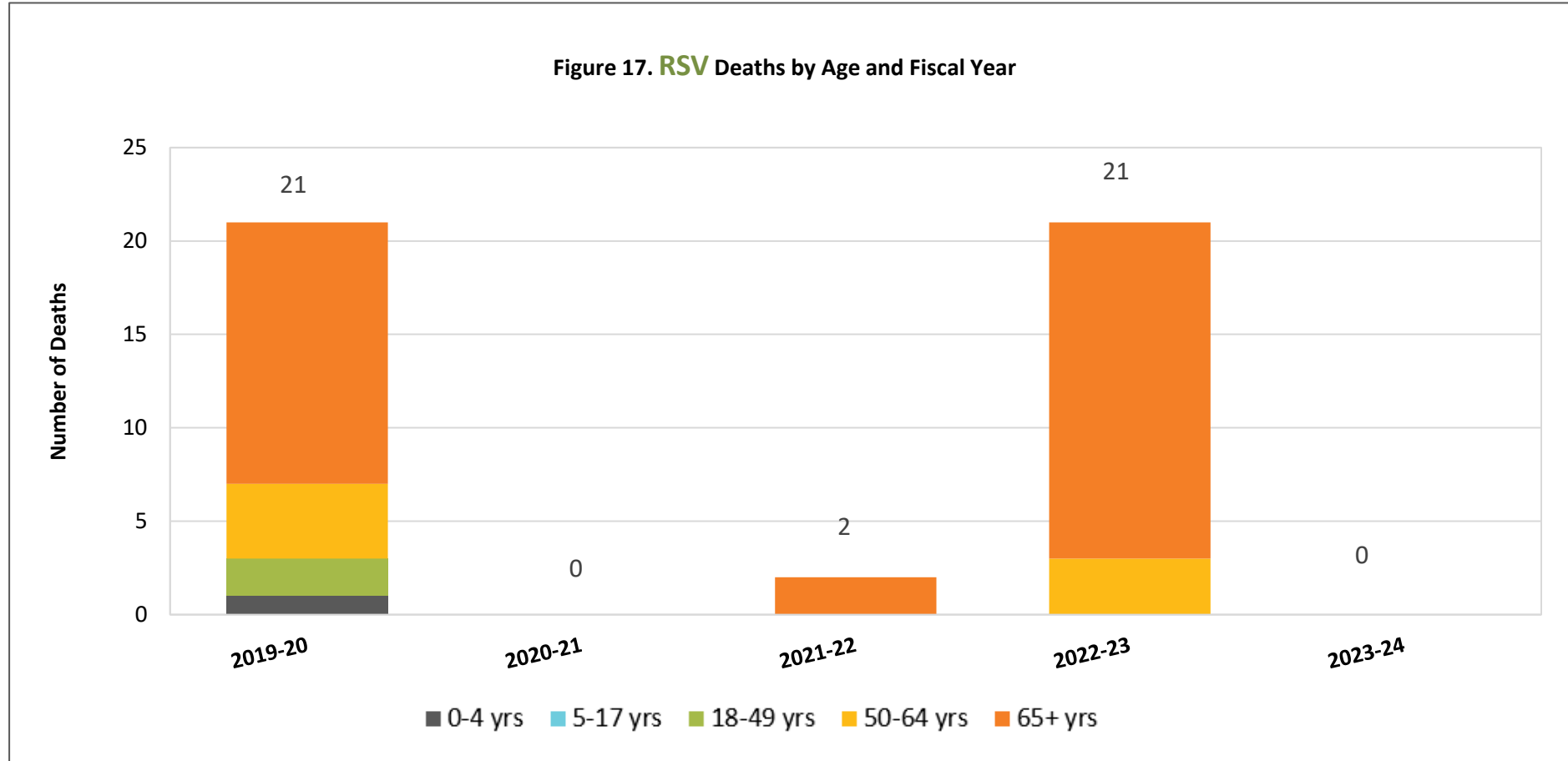
Preliminary Results
Data Source: San Diego County Communicable Disease Registry
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

RESPIRATORY SURVEILLANCE UPDATE, 2023-24 YTD

Figure 16. Influenza Deaths by Age and Fiscal Year

Figure 17. RSV Deaths by Age and Fiscal Year

RESPIRATORY SURVEILLANCE UPDATE, 2023-24 YTD

Table 2. Summary of Deaths, Fiscal Year-to-Date

	COVID-19 Deaths	Influenza Deaths	RSV Deaths
Age			
0-4 years	0 (0.0%)	0 (0.0%)	0 (0.0%)
5-17 years	0 (0.0%)	0 (0.0%)	0 (0.0%)
18-49 years	1 (2.0%)	0 (0.0%)	0 (0.0%)
50-64 years	2 (4.0%)	0 (0.0%)	0 (0.0%)
65+ years	47 (94.0%)	1 (100.0%)	0 (0.0%)
Gender			
Male	29 (58.0%)	1 (100.0%)	0 (0.0%)
Female	21 (42.0%)	0 (0.0%)	0 (0.0%)
Race/Ethnicity			
American Indian or Alaska Native	2 (4.0%)	0 (0.0%)	0 (0.0%)
Asian	4 (8.0%)	1 (100.0%)	0 (0.0%)
Black or African American	0 (0.0%)	0 (0.0%)	0 (0.0%)
Hispanic or Latino	9 (18.0%)	0 (0.0%)	0 (0.0%)
Native Hawaiian or Other Pacific Islander	0 (0.0%)	0 (0.0%)	0 (0.0%)
Other/Multiple Race	0 (0.0%)	0 (0.0%)	0 (0.0%)
White	35 (70.0%)	0 (0.0%)	0 (0.0%)
Other Significant Conditions	39 (78.0%)	0 (0.0%)	0 (0.0%)

RESPIRATORY SURVEILLANCE UPDATE, 2023-24 YTD

Figure 18. Number of San Diego County Residents with Up-to-Date COVID-19 Vaccination Status, Age 6 Months and Older

Legend:
- Number of Up-to-Date SD Residents (N=761,682)
- Percent of all SD Residents Up-to-Date
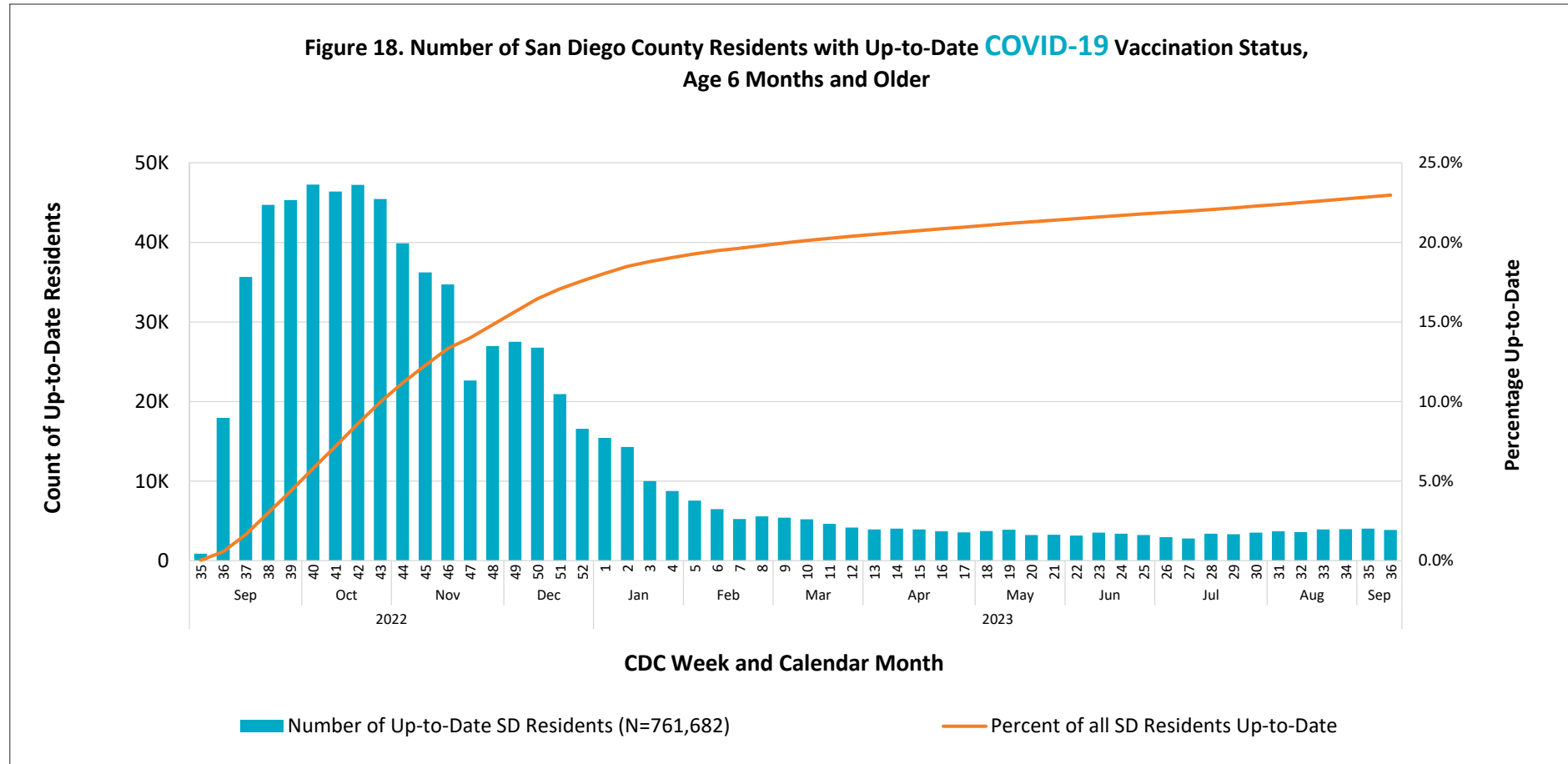
The bars show individual San Diego County Residents who are up-to-date in their COVID-19 vaccines, not doses administered. The line shows the percent of persons vaccinated as Up-to-Date per the dose and schedule regimen for the vaccine received. Stay Up to Date with COVID-19 Vaccines | CDC

Preliminary Results
Data Source: California Immunization Registry (CAIR2)
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

Figure 19. Cumulative Number of Influenza Vaccinations Administered*
by CDC Week and Fiscal Year

*Week 52 data are repeated for week 53 for years that do not include week 53.

Preliminary Results
Data Source: California Immunization Registry (CAIR2)
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch
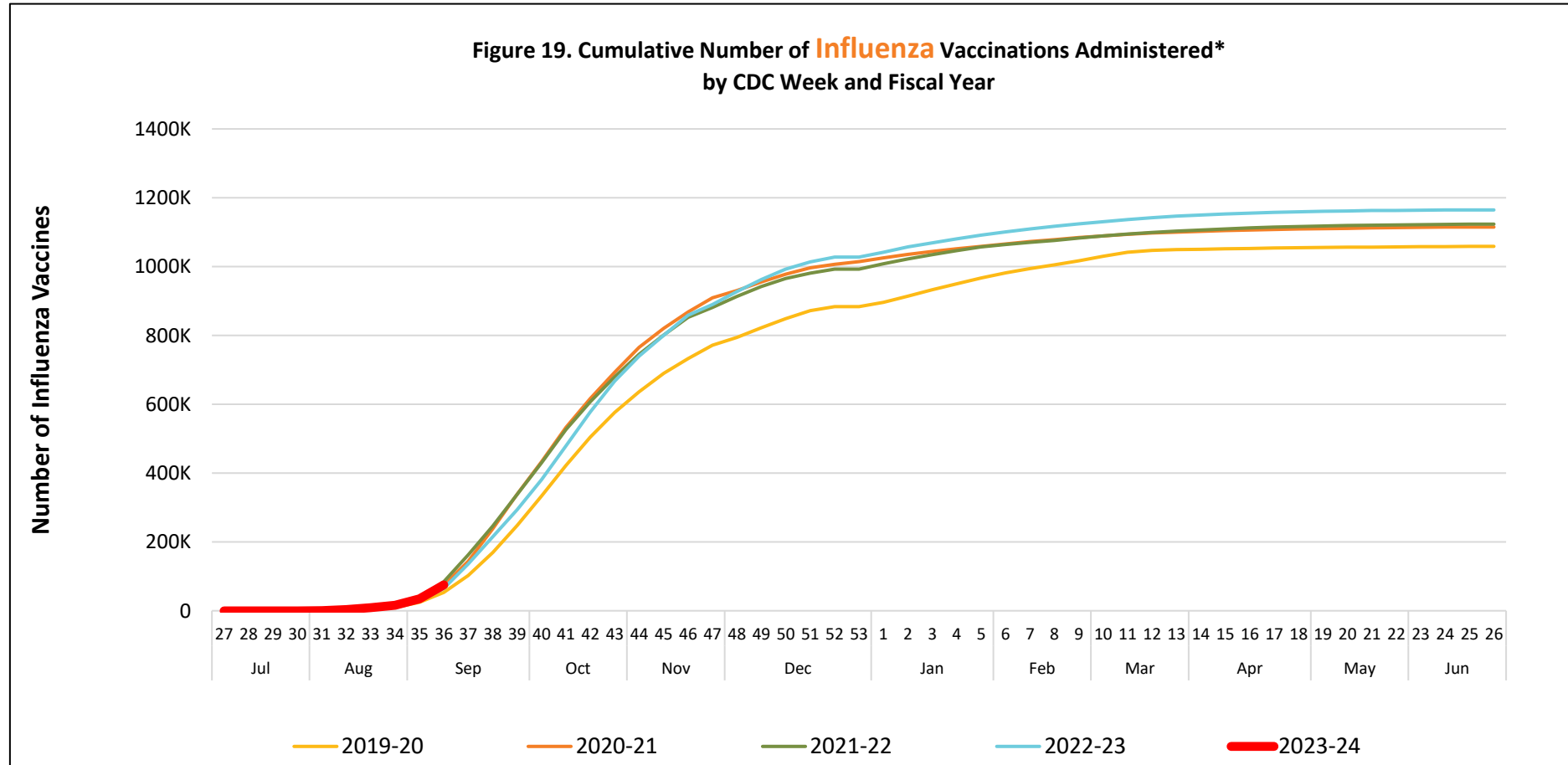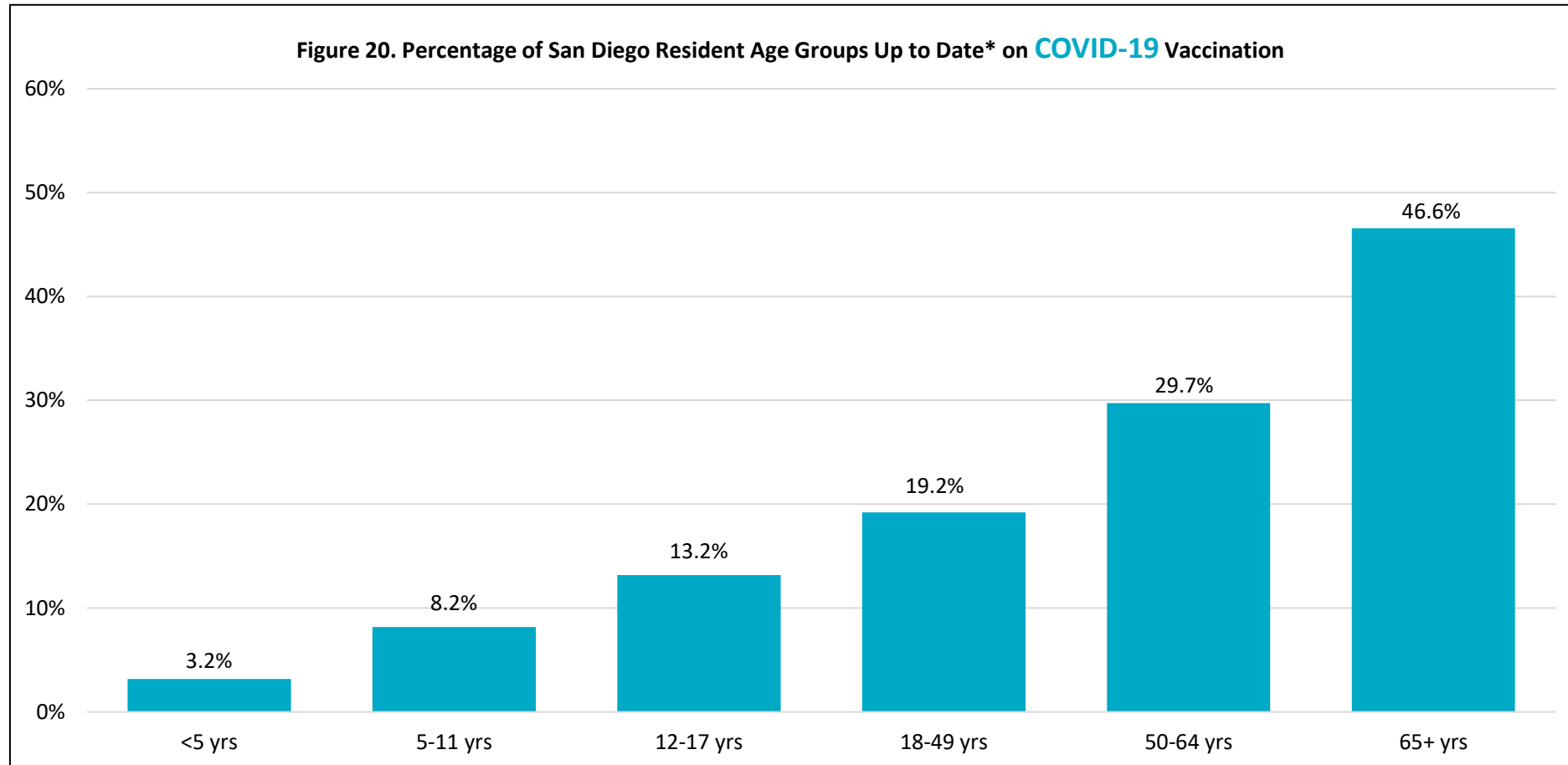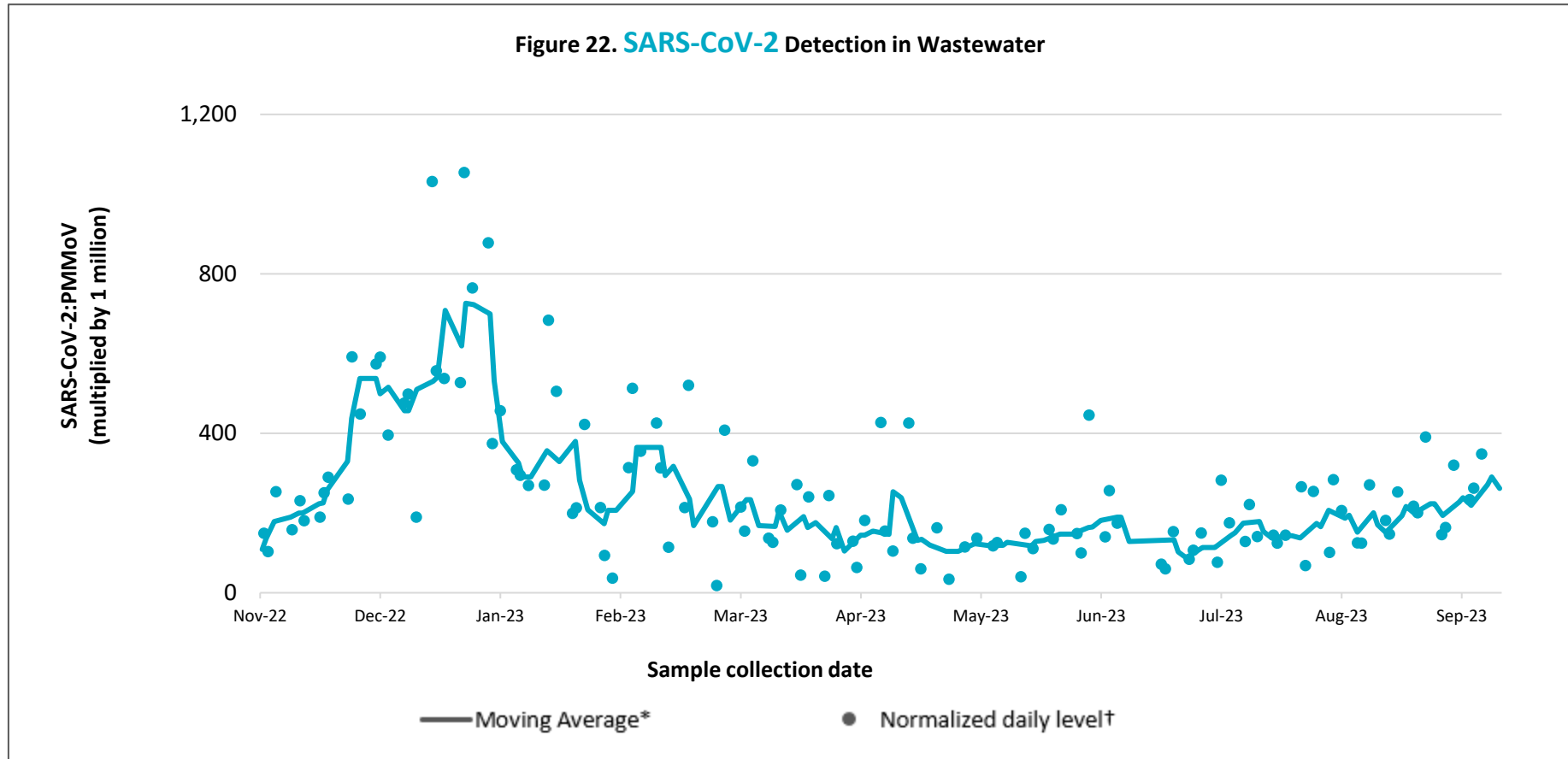
Respiratory Surveillance Update, 2023-24 YTD

Figure 20. Percentage of San Diego Resident Age Groups Up to Date* on COVID-19 Vaccination

Age Group	Percentage
<5 yrs	3.2%
5-11 yrs	8.2%
12-17 yrs	13.2%
18-49 yrs	19.2%
50-64 yrs	29.7%
65+ yrs	46.6%

*Using the Up to Date criteria as defined by the CDC. Stay Up to Date with COVID-19 Vaccines | CDC

Preliminary Results
Data Source: California Immunization Registry (CAIR2)
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

Figure 21. Percentage of San Diego Resident Age Groups that Received an **Influenza** Vaccination, 2023-24 Fiscal Year-to-Date

Figure 22. SARS-CoV-2 Detection in Wastewater

Data provided by Wastewater SCAN: https://wastewaterscan.org/.
*Calculated by taking the average of the 5 samples centered around a date after excluding the highest and lowest values.
†Data are normalized to a common, harmless plant virus that is consumed when people eat called pepper mild mottle virus (PMMoV).

Preliminary Results
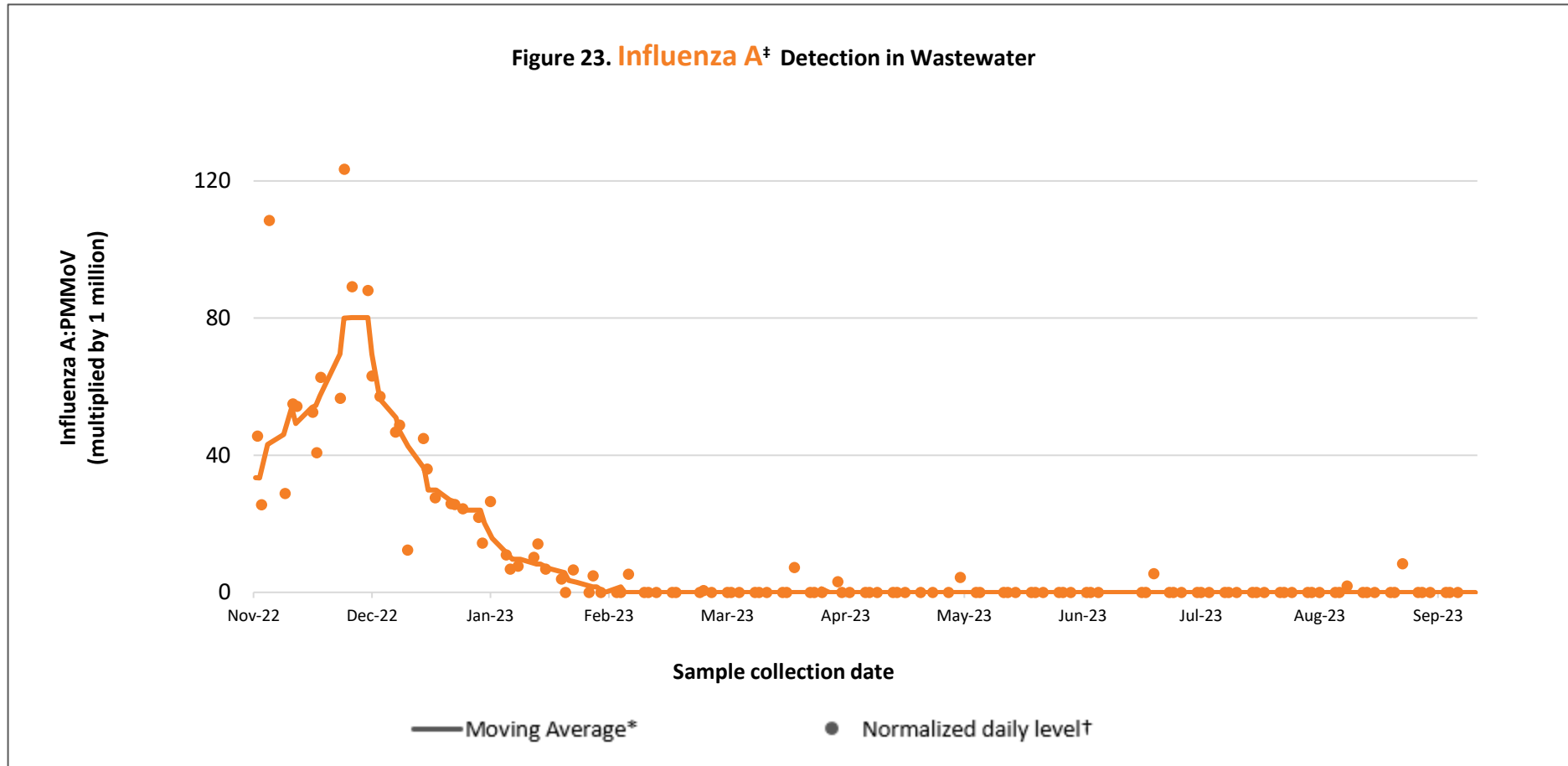Data Source: Wastewater SCAN
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

Figure 23. Influenza A‡ Detection in Wastewater

Data provided by Wastewater SCAN: https://wastewaterscan.org/.

*Calculated by taking the average of the 5 samples centered around a date after excluding the highest and lowest values.

†Data are normalized to a common, harmless plant virus that is consumed when people eat called pepper mild mottle virus (PMMoV).

‡Detection of influenza in wastewater is specific to influenza A.
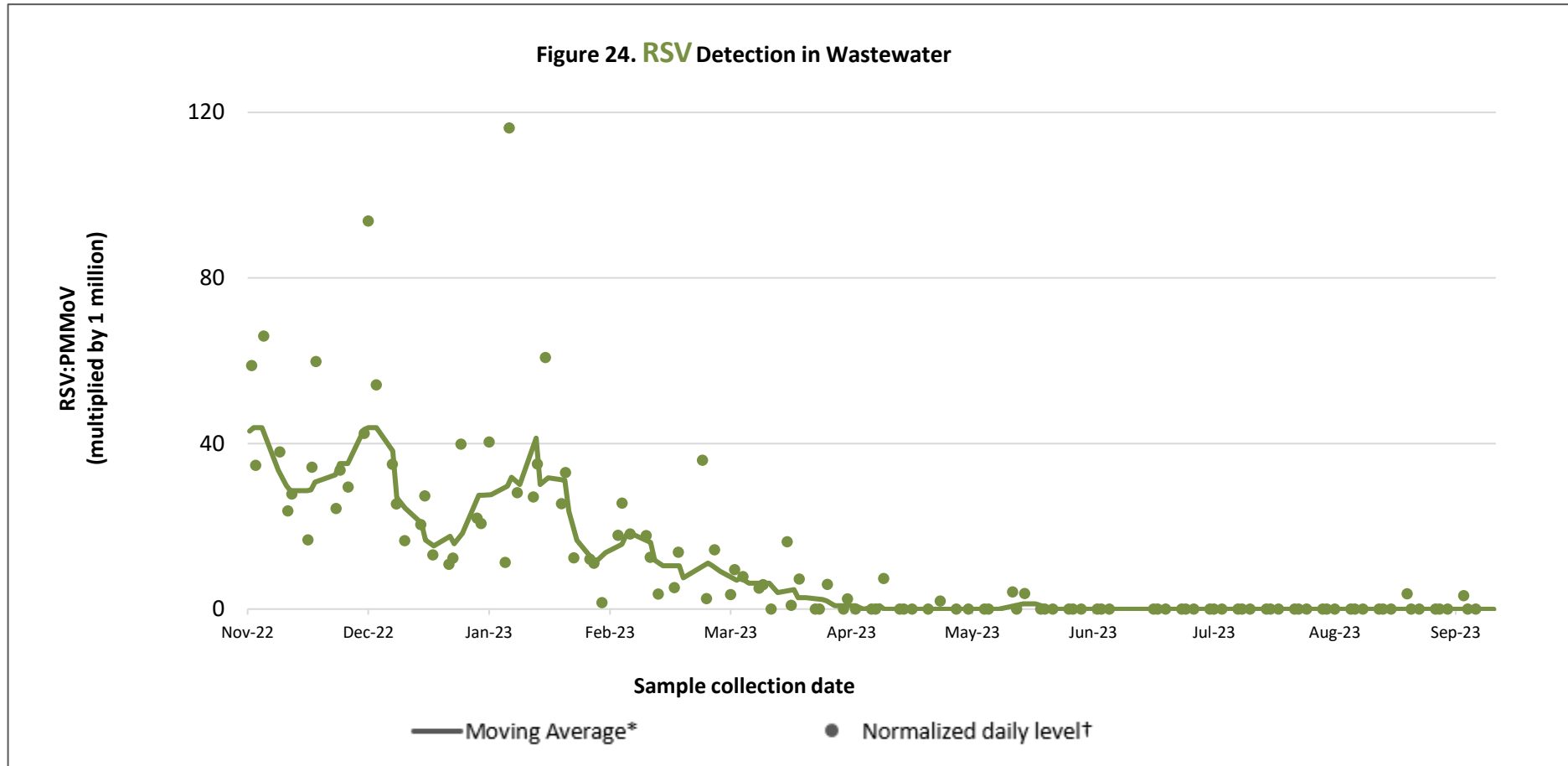
Preliminary Results
Data Source: Wastewater SCAN
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

Figure 24. RSV Detection in Wastewater

Data provided by Wastewater SCAN: https://wastewaterscan.org/.

*Calculated by taking the average of the 5 samples centered around a date after excluding the highest and lowest values.

†Data are normalized to a common, harmless plant virus that is consumed when people eat called pepper mild mottle virus (PMMoV).

Preliminary Results
Data Source: Wastewater SCAN
Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch

Figure 25. Influenza Subtypes by CDC Episode Week*