



# SAN DIEGO COUNTY INFLUENZA SURVEILLANCE

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## 2017-18 SEASON SUMMARY



# INFLUENZA SEASON SUMMARY, 2017-18



# 20,833

## TOTAL REPORTED INFLUENZA CASES



Record high volumes

# 342

## FLU DEATHS



# 320

## ICU CASES



# 117

## CONFIRMED OUTBREAKS



Data Source: Reported Influenza Case Reports

Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch, 8/31/18



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## Flu A

<b>Influenza A</b>	<b>13,128</b>
<b>Influenza A (H3) Seasonal</b>	<b>593</b>
<b>Influenza A (H1N1)pdm09</b>	<b>62</b>

**66.2%**

## Flu B

<b>Influenza B</b>	<b>6,811</b>
<b>Influenza B/Yamagata</b>	<b>42</b>
<b>Influenza B/Victoria</b>	<b>19</b>

**33.0%**

## Flu A/B

<b>Influenza, not typed</b>	<b>178</b>
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**0.8%**

**N = 20,833**

Data Source: Reported Influenza Case Reports

Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch, 8/31/18





**Table 1. Influenza Surveillance Indicators.**

<b>Surveillance Indicator</b>	<b>2017-18 Season</b>	<b>2016-17 Season</b>	<b>Prior 3- Season Average*</b>
Influenza detections reported (all types)*	20,833	6,827	6,834
Number of influenza-related ICU cases	320	107	128
Number of influenza-related deaths reported	342	87	84
Number of influenza-related outbreaks reported	117	35	43

Season= July 1-June 30

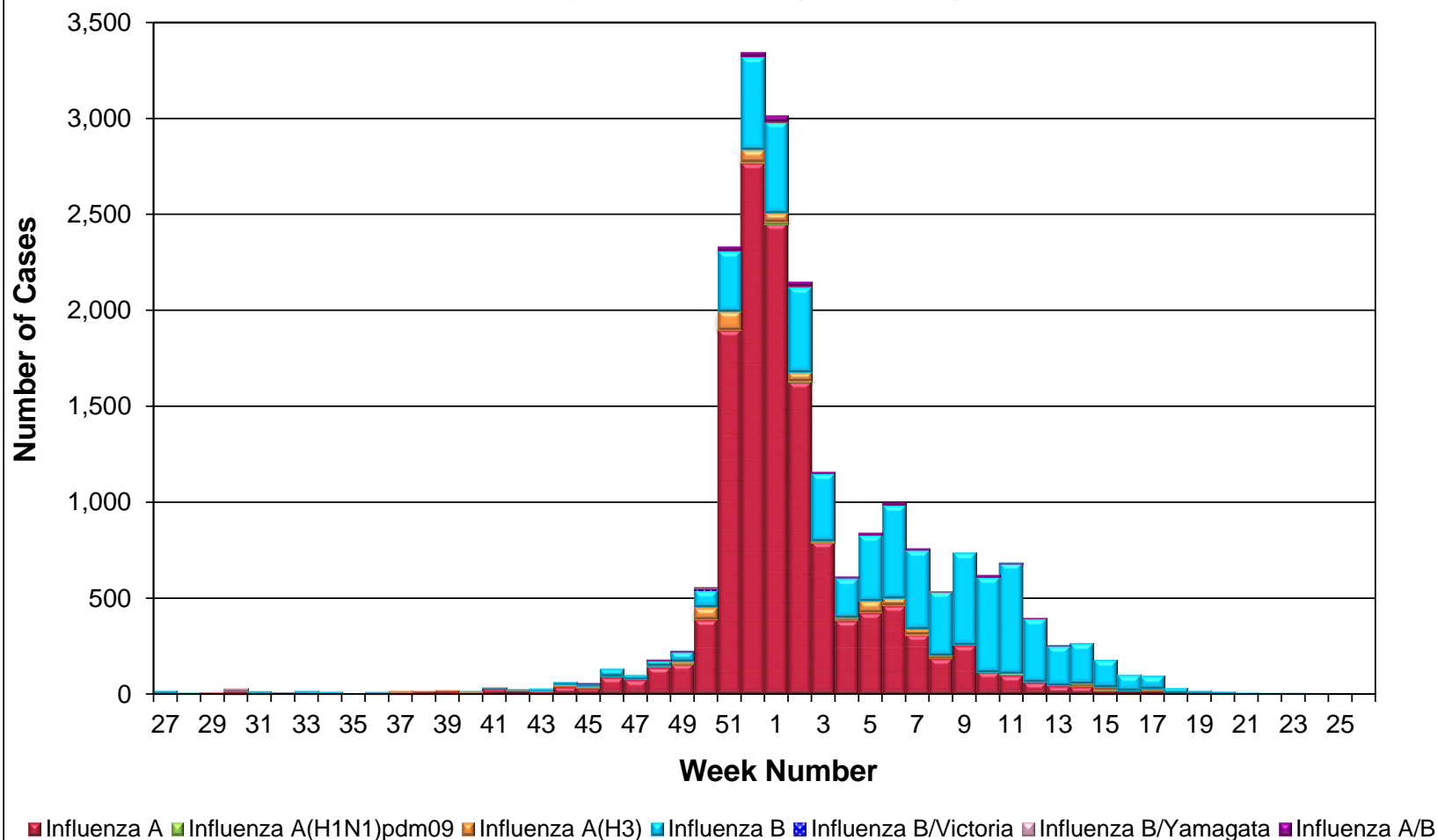
\* Includes the 2014-15, 2015-16, and 2016-17 seasons.

# INFLUENZA SEASON SUMMARY, 2017-18



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SAN DIEGO

**Figure 1. San Diego County Influenza Detections by Type and Week of Report, 2017-18 (N=20,833).**



Data Source: Reported Influenza Case Reports

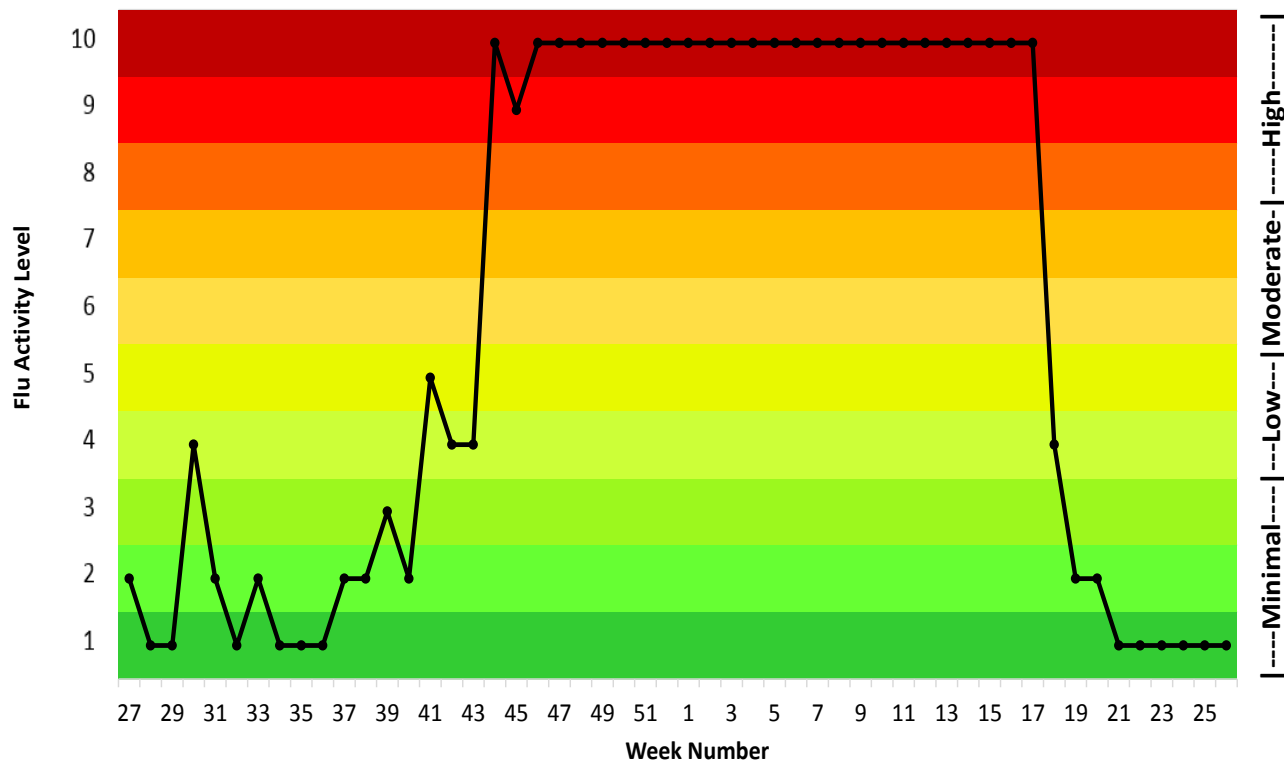
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**Figure 2. Influenza Activity Level: Number of Influenza Cases Reported.**



Activity Level Legend	Minimal			Low		Moderate		High		
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7	LEVEL 8	LEVEL 9	LEVEL 10
	< mean	≥ mean and <1 standard deviation above mean	≥1 and <2 standard deviations above mean	≥2 and <3 standard deviations above mean	≥3 and <4 standard deviations above mean	≥4 and <5 standard deviations above mean	≥5 and <6 standard deviations above mean	≥6 and <7 standard deviations above mean	≥7 and <8 standard deviations above mean	≥8 standard deviations above mean

## Influenza Activity Indicator:

The activity levels compare the number of reported influenza cases for the current week to the mean (and number of standard deviations above of the mean) of the reported influenza cases during non-influenza season weeks (CDC disease weeks 27-39). There are 10 activity levels, classified as: minimal (levels 1-3), low (levels 4-5), moderate (levels 6-7), and high (levels 8-10). An activity level of 1 corresponds to a week having a number of reported influenza cases that is below the mean; level 2 corresponds to the number of reported influenza cases as less than 1 standard deviation above the mean; level 3 corresponds to the number of reported influenza cases as more than 1 but less than 2 standard deviations above the mean, and so on, with an activity level of 10 corresponding to the number of reported influenza cases at 8 or more standard deviations above the mean.

The number of reported influenza cases was at a "High" level for 26 consecutive weeks (weeks 44-17) during the 2017-18 season in San Diego County.

Data Source: Reported Influenza Case Reports

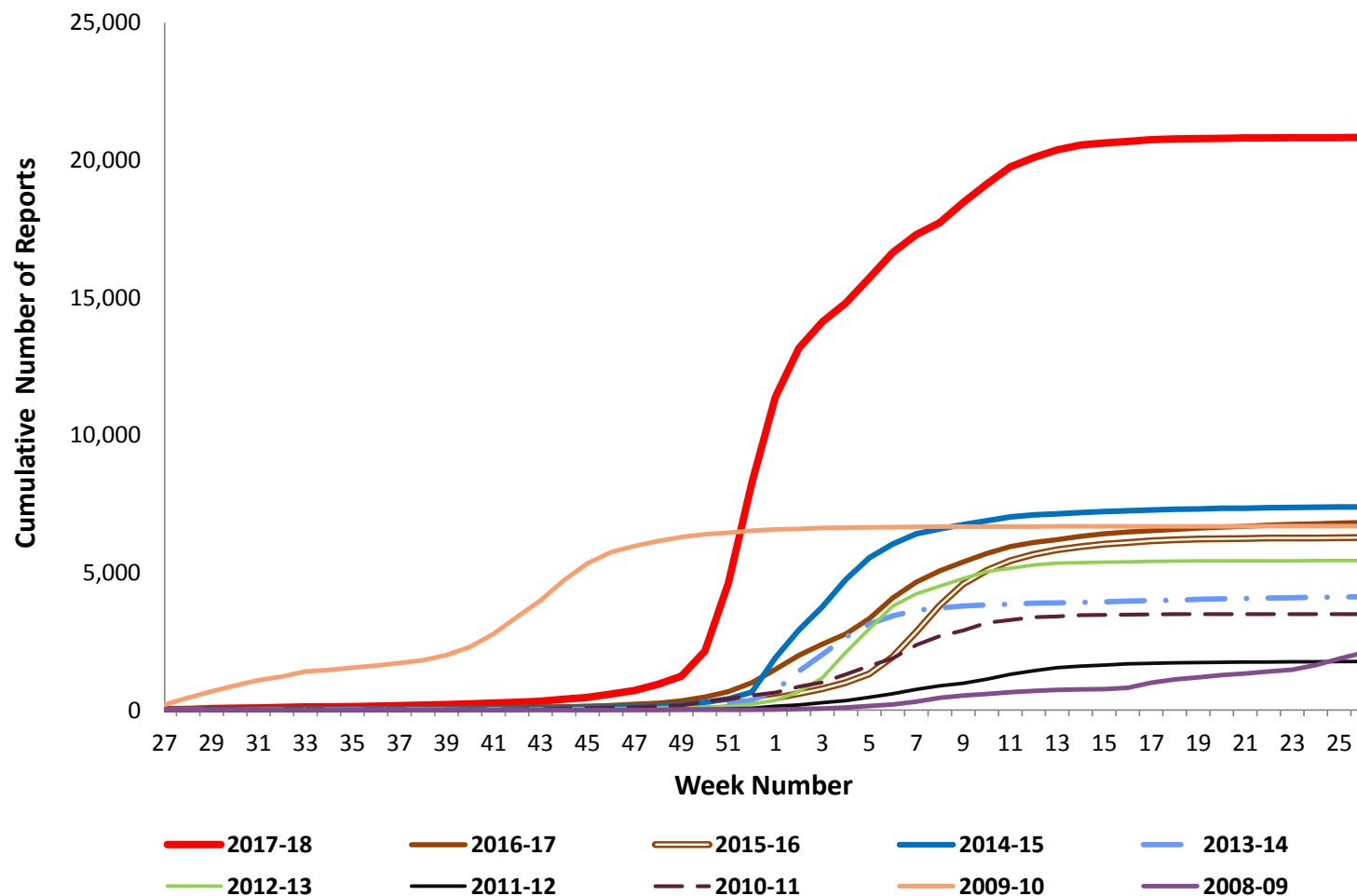
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# INFLUENZA SEASON SUMMARY, 2017-18



**Figure 3. Cumulative Influenza Case Reports by Episode Week & Season.**



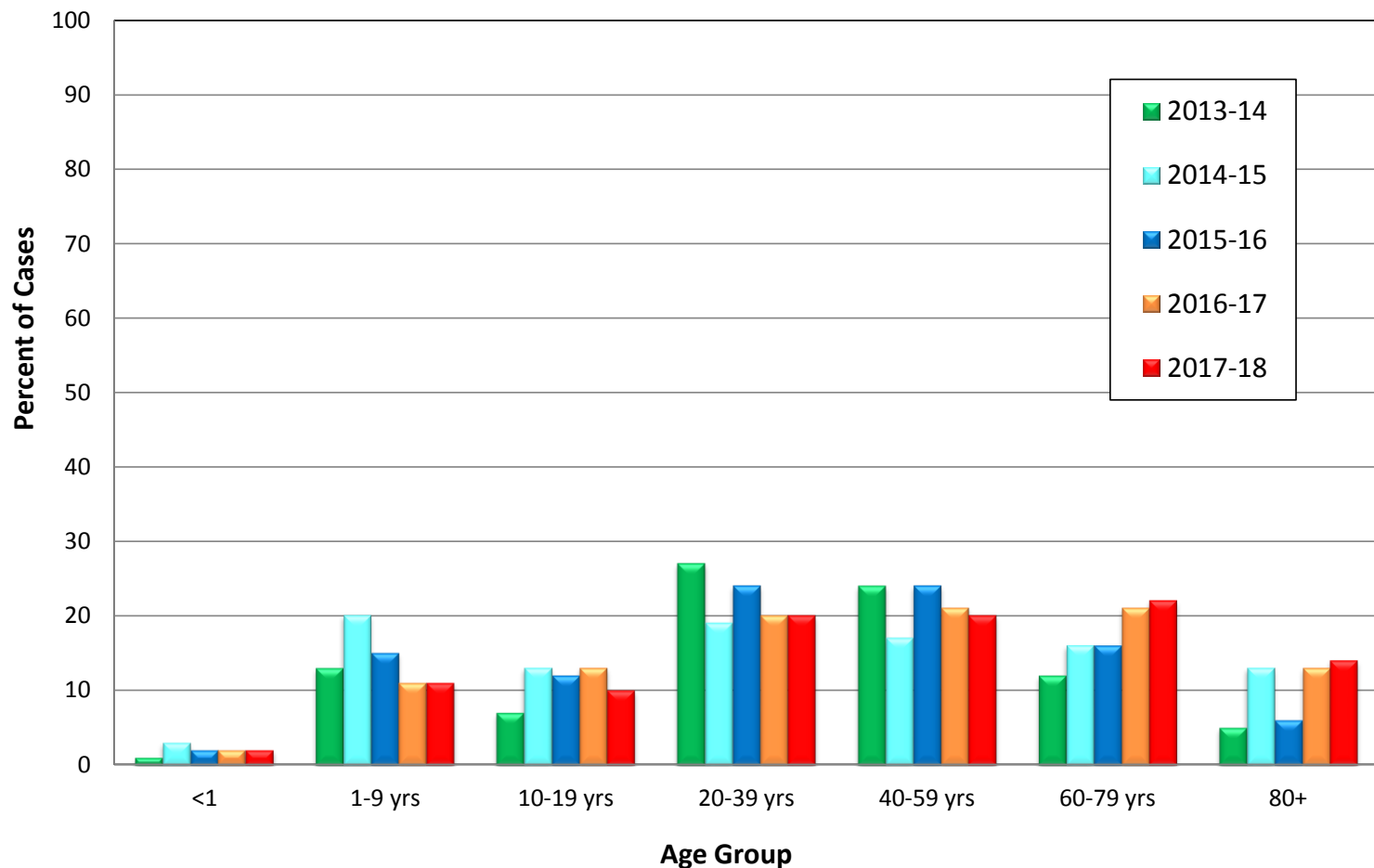
Data Source: Reported Influenza Case Reports

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**Figure 4. Percent of Reported Influenza Cases by Age Group and Season, 2013-14 to 2017-18.**

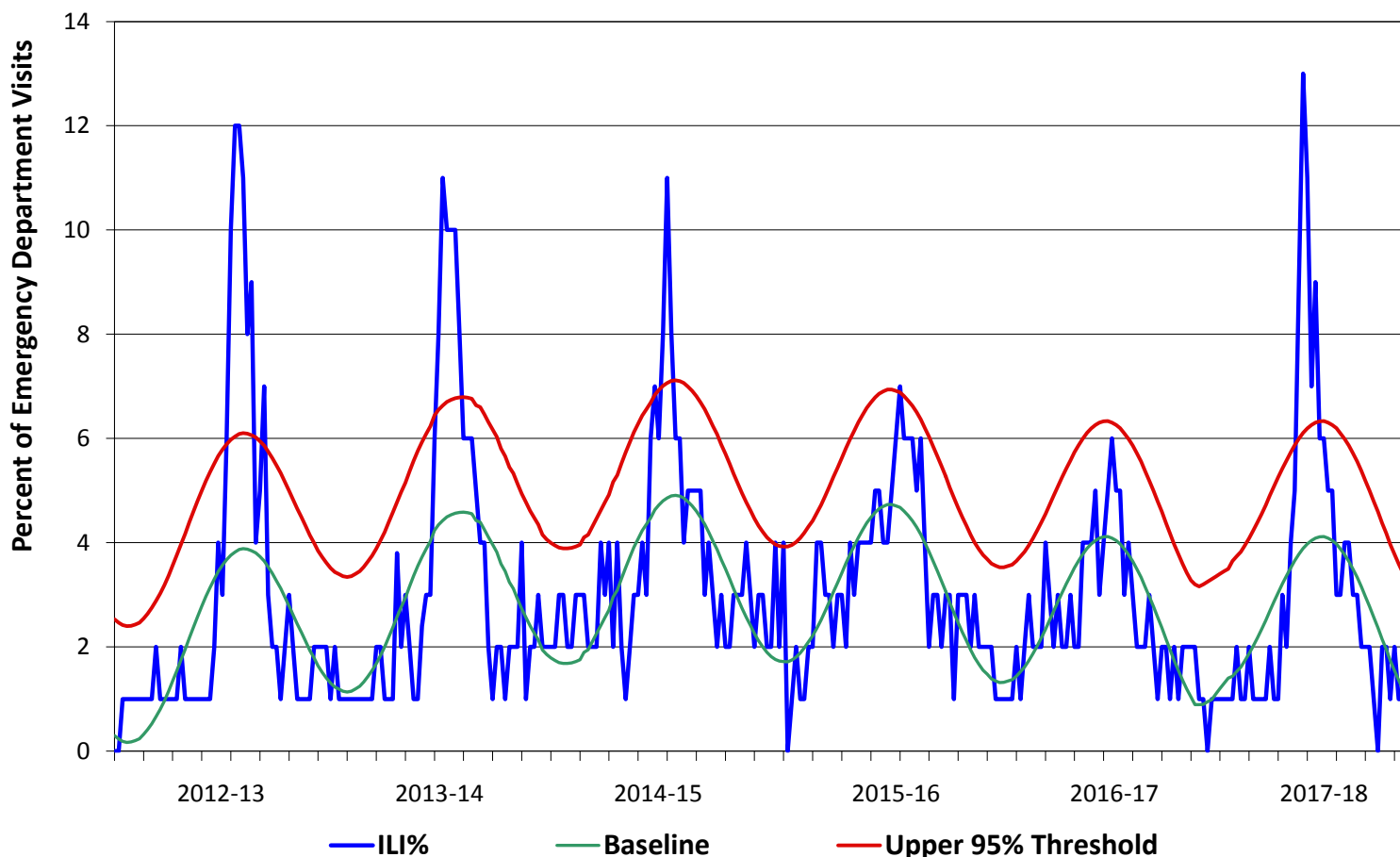


Data Source: Reported Influenza Case Reports

# INFLUENZA SEASON SUMMARY, 2017-18



**Figure 5. Percent of San Diego County Emergency Department Visits for Influenza-like Illness by Week and Season Compared to 5-Year Baseline & Upper 95% Threshold Values (Serfling Method).**



Data Source: Reported Influenza Case Reports

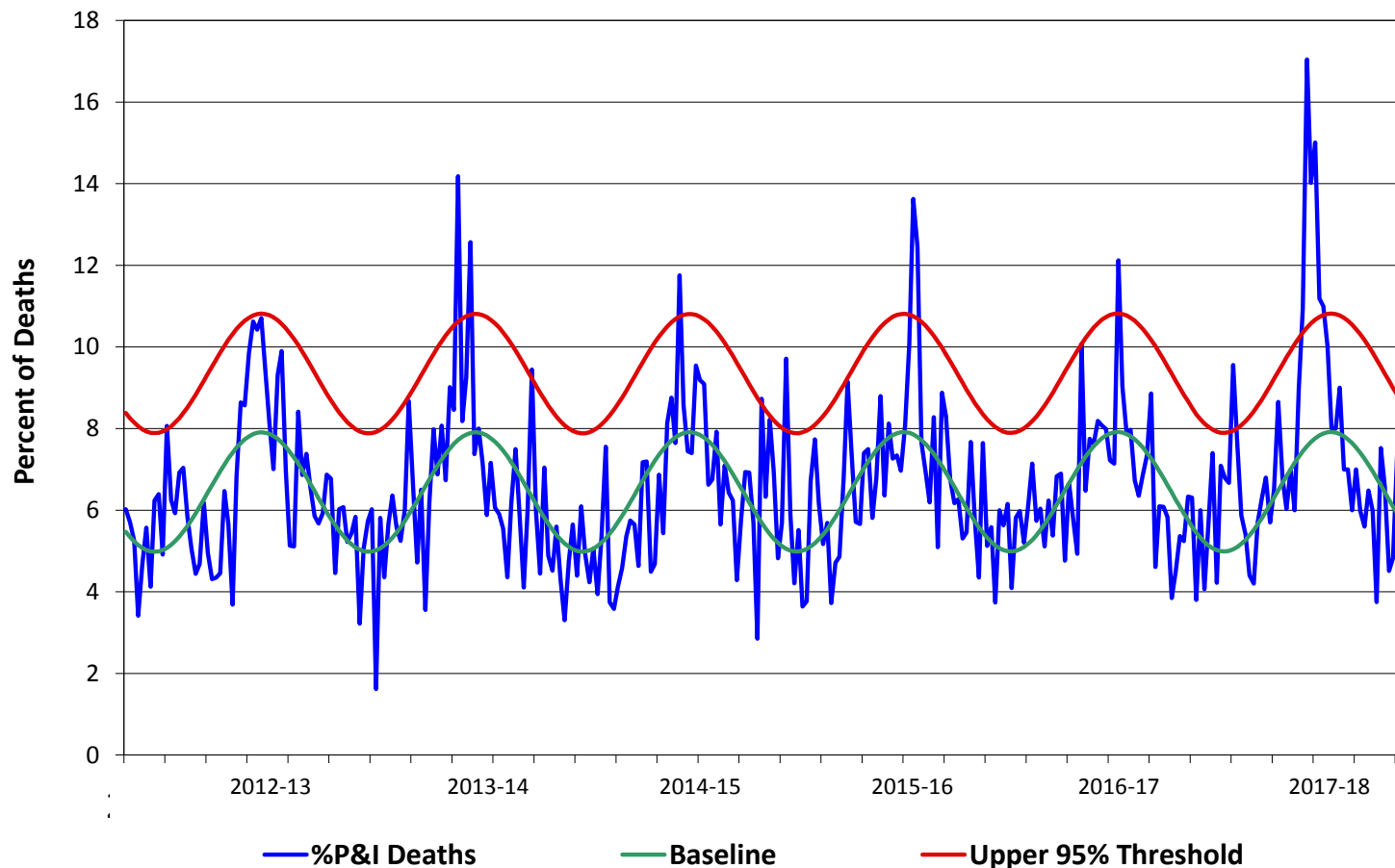
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# INFLUENZA SEASON SUMMARY, 2017-18



**Figure 6. Percent of San Diego County Deaths Registered with Pneumonia and/or Influenza by Week and Season Compared to Prior 5-Year Baseline & Upper 95% Threshold Values (Serfling Method).**



Data Source: Reported Influenza Case Reports

Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch, 8/31/18

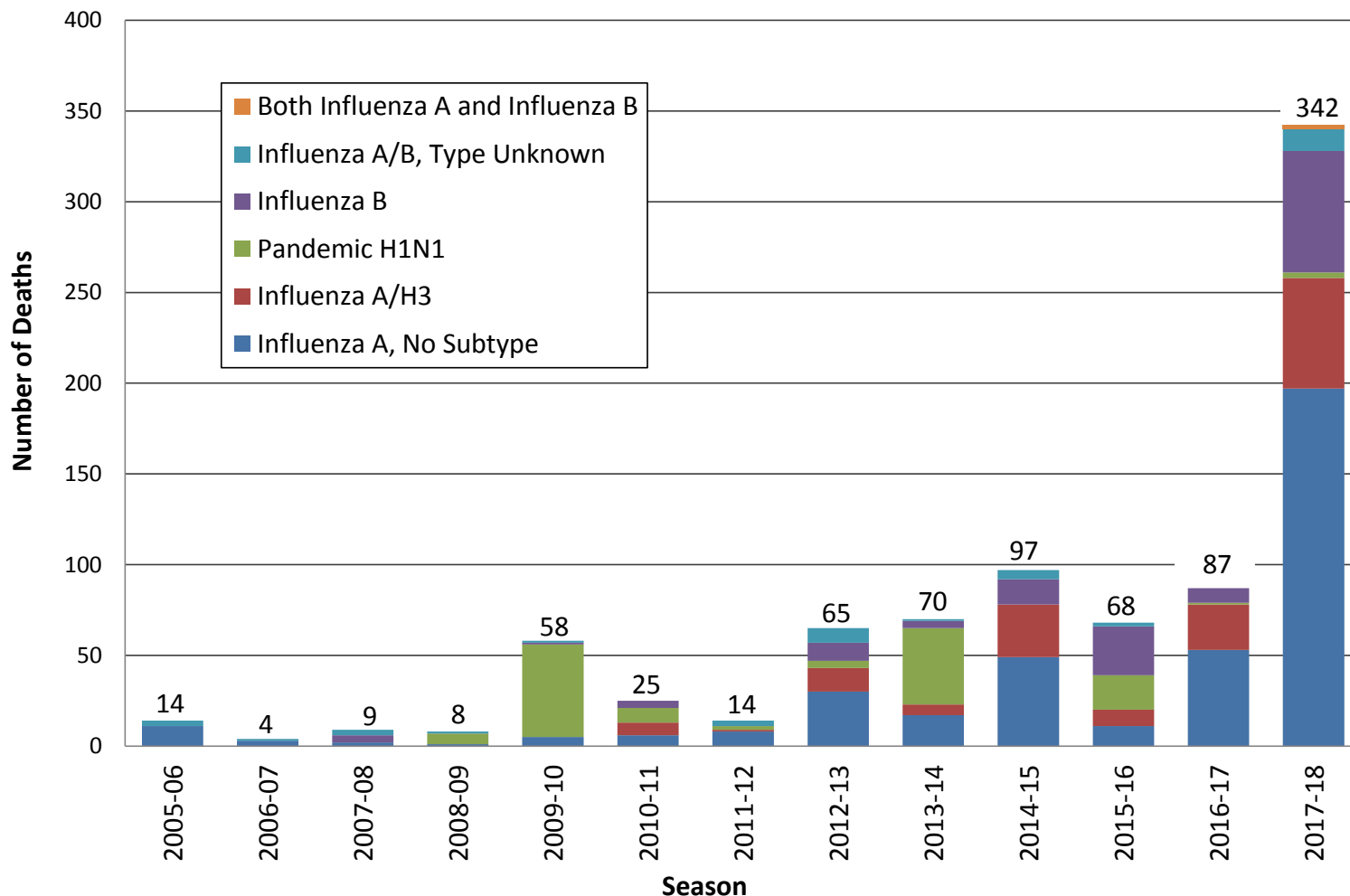


# INFLUENZA SEASON SUMMARY, 2017-18



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## Figure 7. Influenza Deaths by Type and Season



Data Source: Reported Influenza Case Reports

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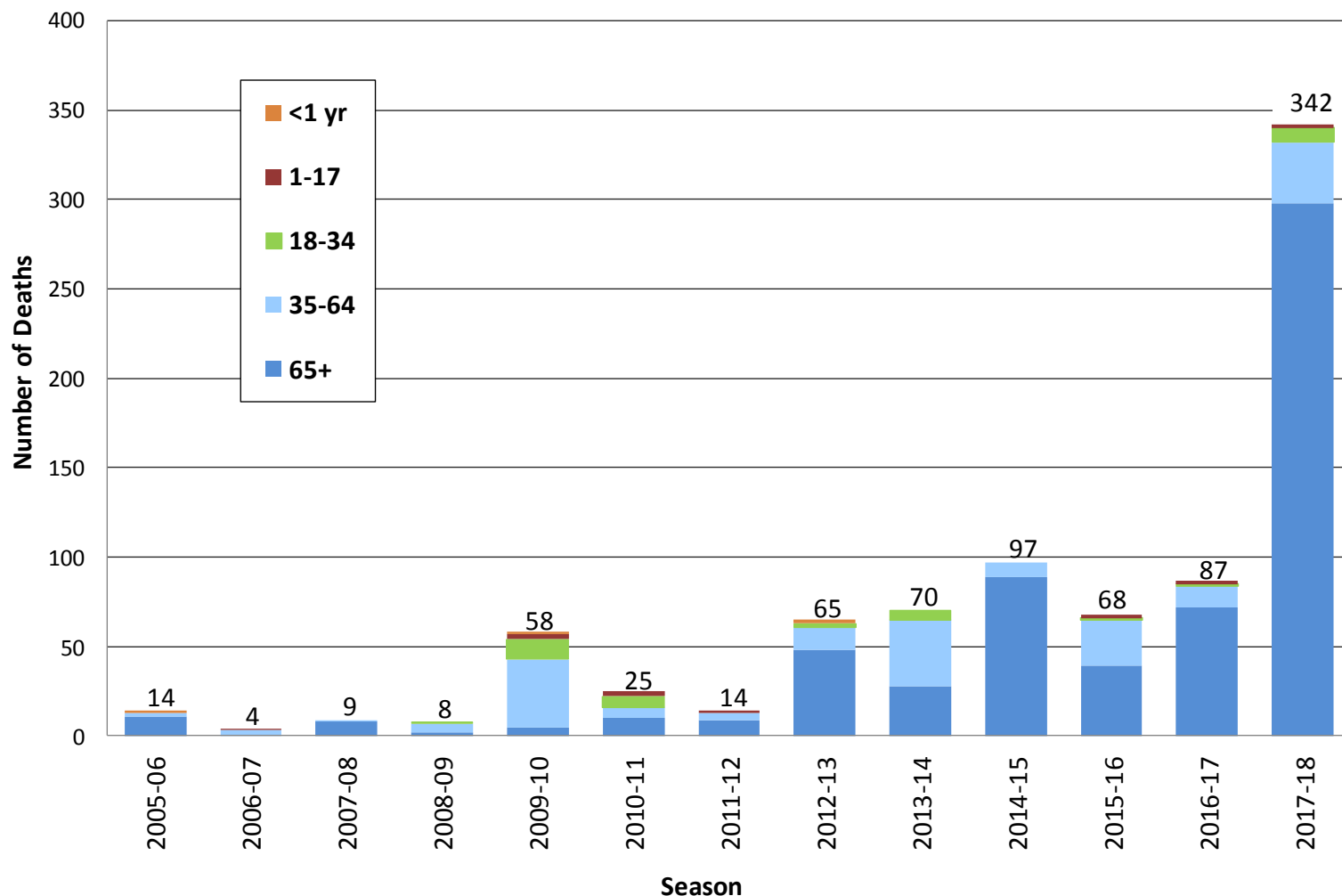


# INFLUENZA SEASON SUMMARY, 2017-18



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**Figure 8. Influenza Deaths by Age and Season**



Data Source: Reported Influenza Case Reports

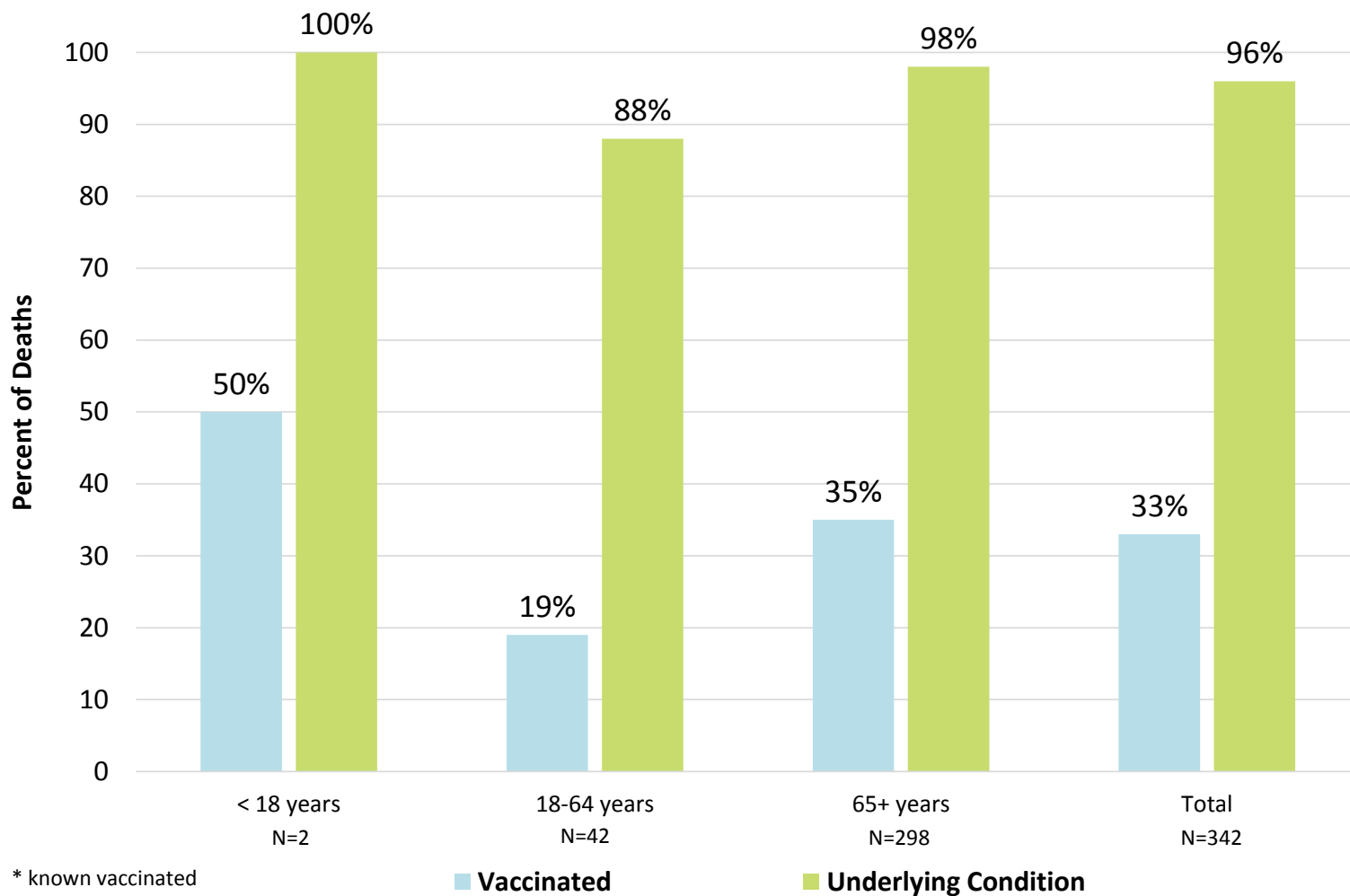
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# INFLUENZA SEASON SUMMARY, 2017-18



**Figure 9. Percent of Influenza Deaths Fully Vaccinated\* and With Underlying Conditions by Age Group, 2017-18.**



Data Source: Reported Influenza Case Reports

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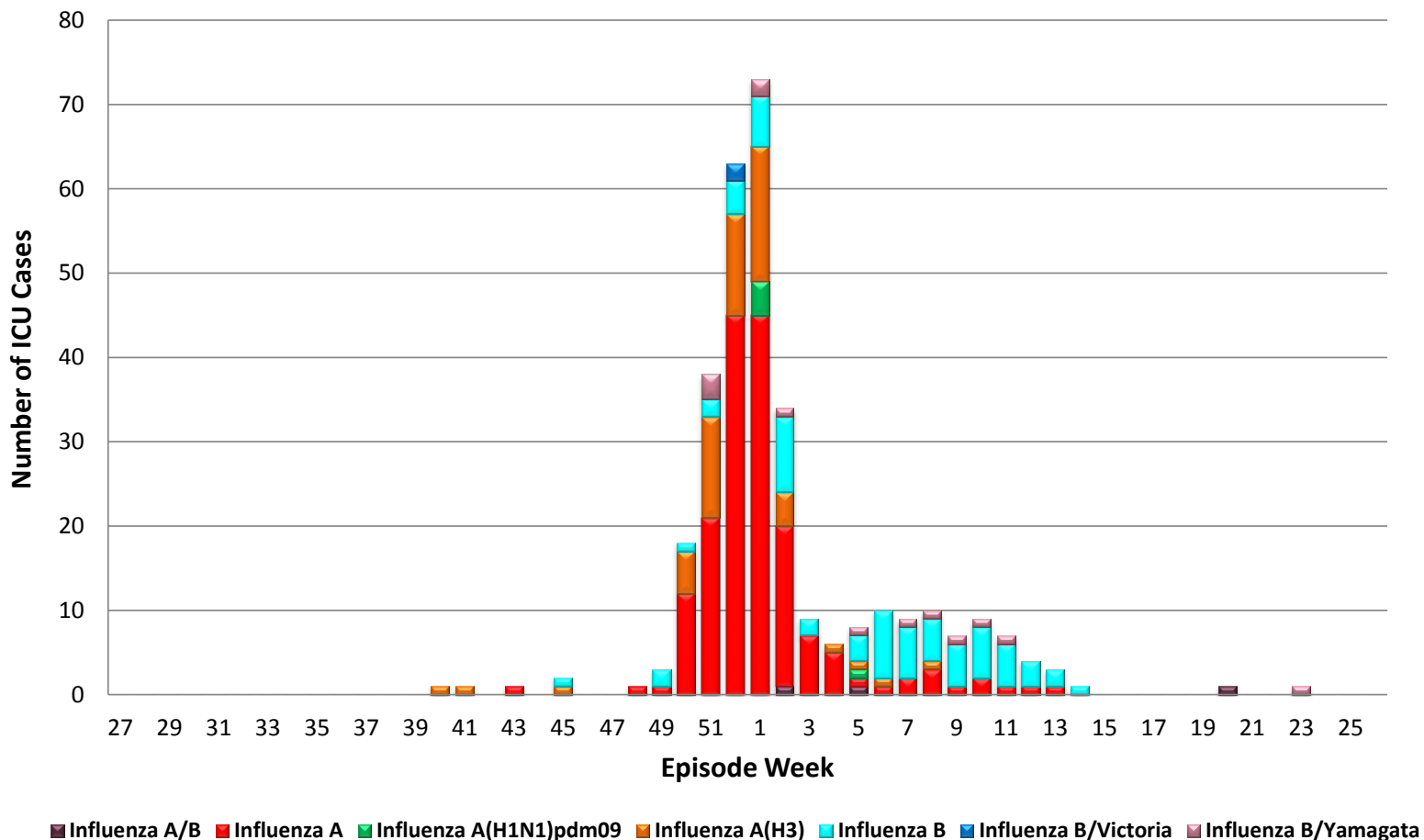


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**Figure 10. Number of Influenza Cases Requiring ICU Care by Episode Week and Type of Influenza, 2017-18 (N=320).**



Data Source: Reported Influenza Case Reports

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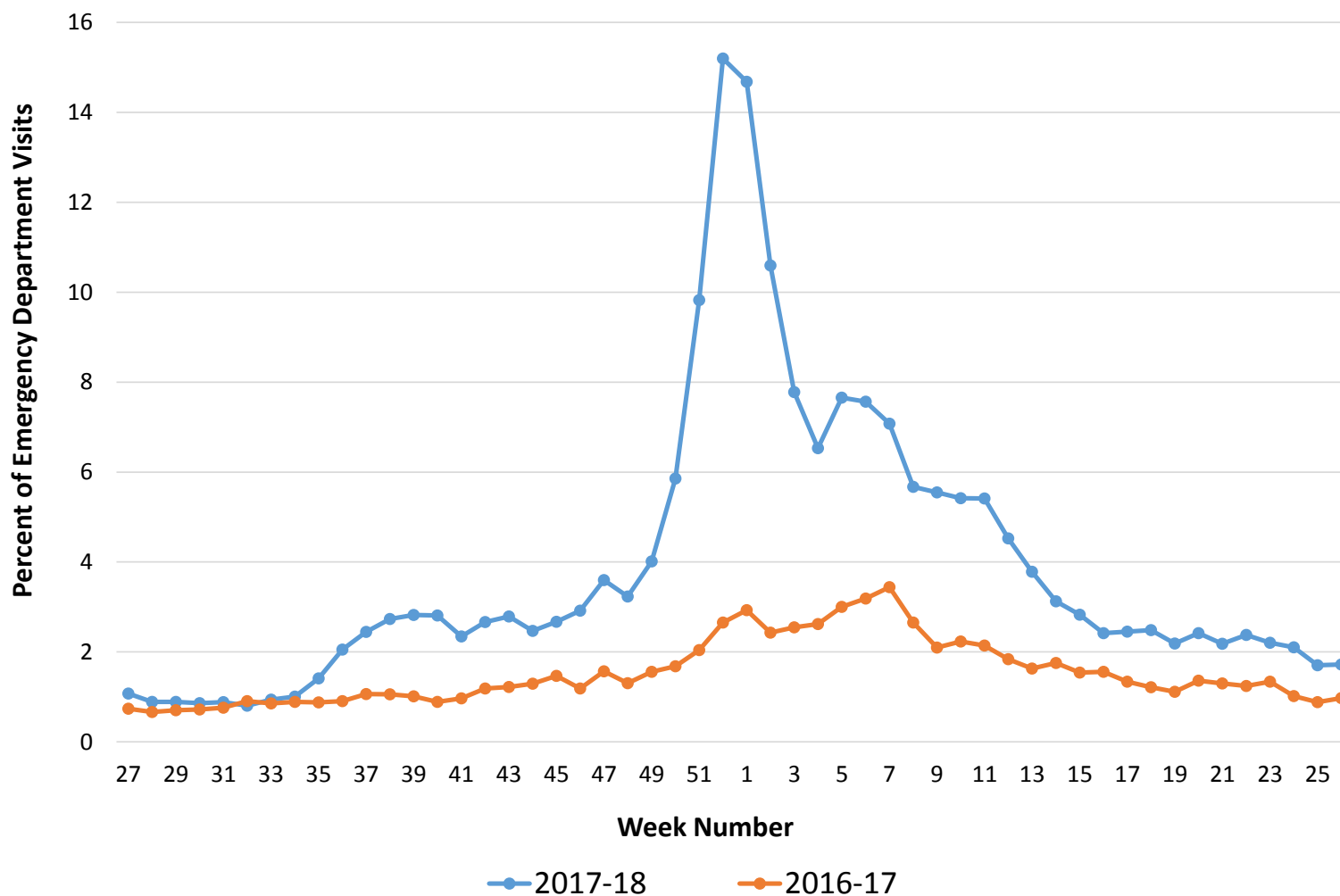


# INFLUENZA SEASON SUMMARY, 2017-18



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**Figure 11. Percent of Emergency Department Visits for ILI Chief Complaint by Week, 2016-17 & 2017-18.**



Data Source: Reported Influenza Case Reports

Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch, 8/31/18

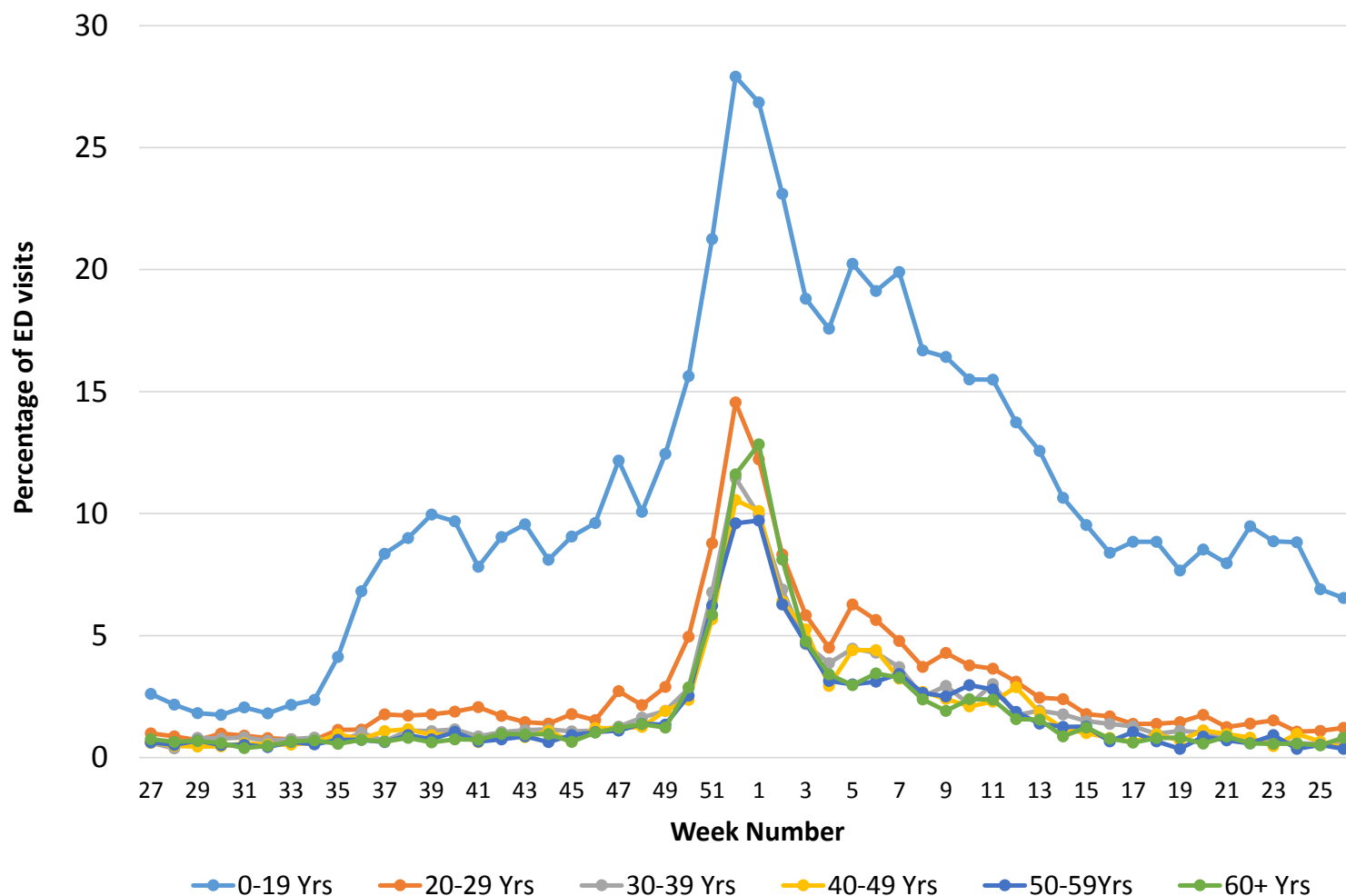


# INFLUENZA SEASON SUMMARY, 2017-18



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**Figure 12. Percent Emergency Department ILI Visits  
by Age Group, 2017-18**



Data Source: Reported Influenza Case Reports

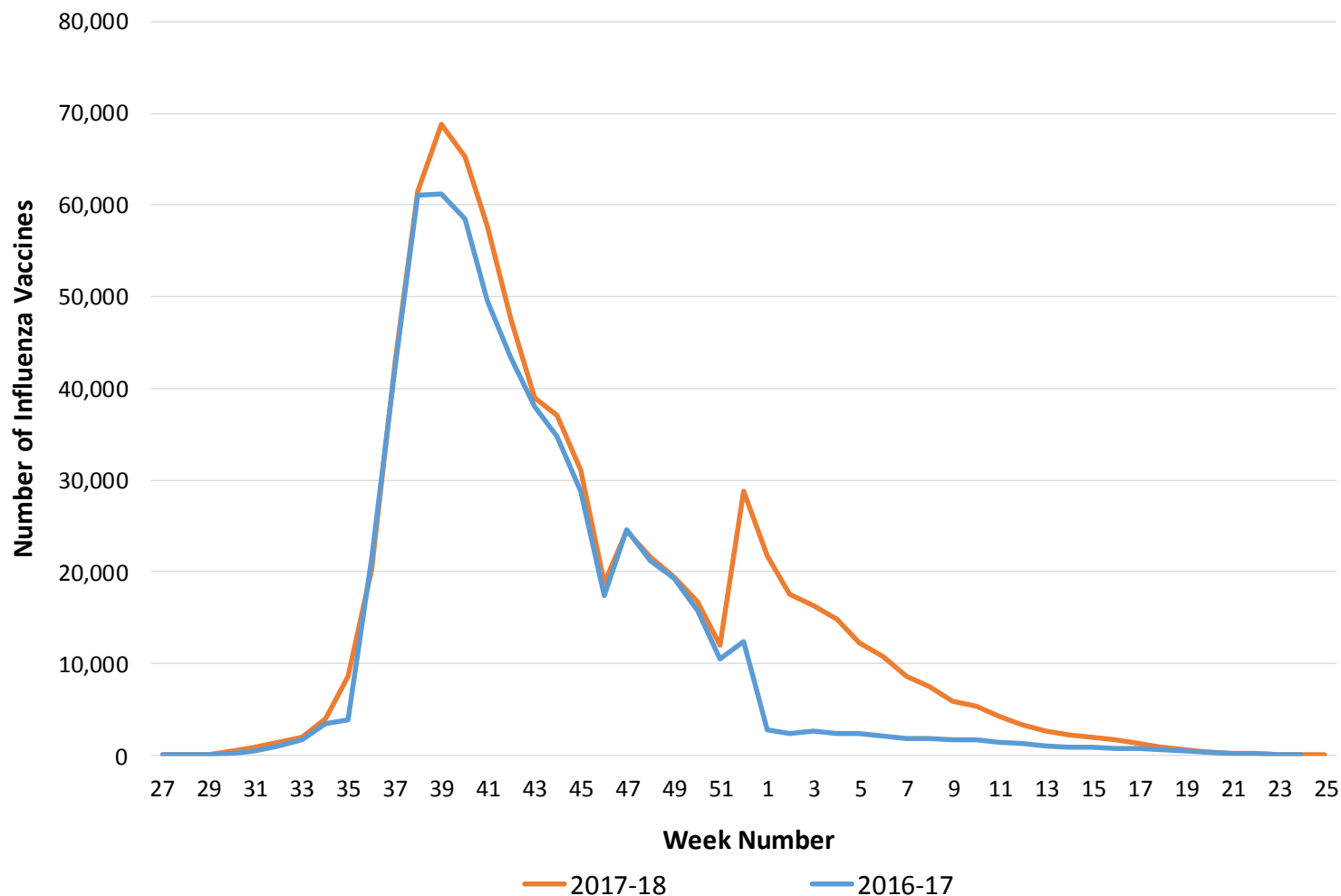
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# INFLUENZA SEASON SUMMARY, 2017-18



**Figure 13. Number of Influenza Vaccinations Administered\* by Week and Season.**



Data Source: Reported Influenza Case Reports

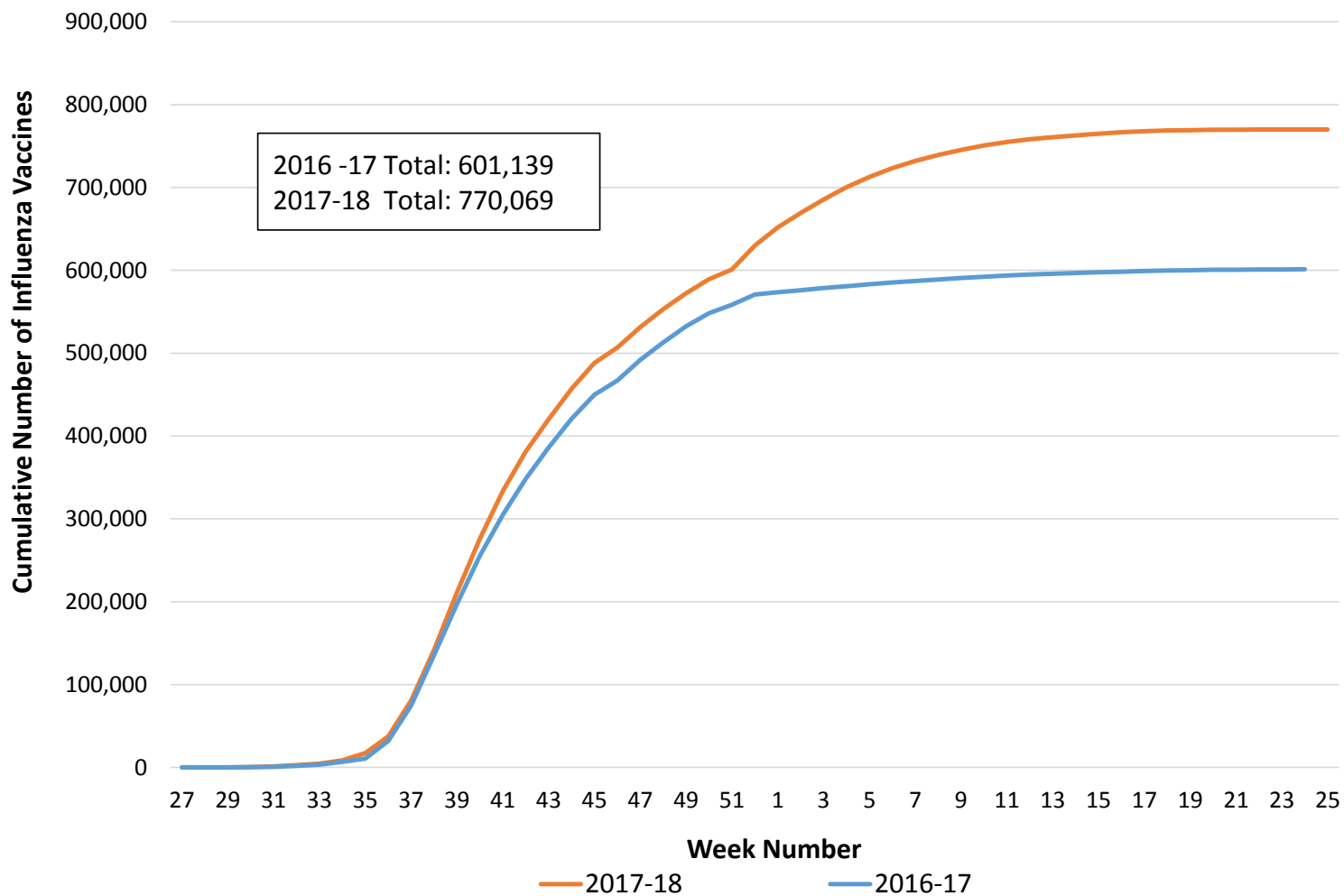
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# INFLUENZA SEASON SUMMARY, 2017-18



**Figure 14. Cumulative Number of Influenza Vaccinations Administered\* by Week and Season.**



Data Source: Reported Influenza Case Reports

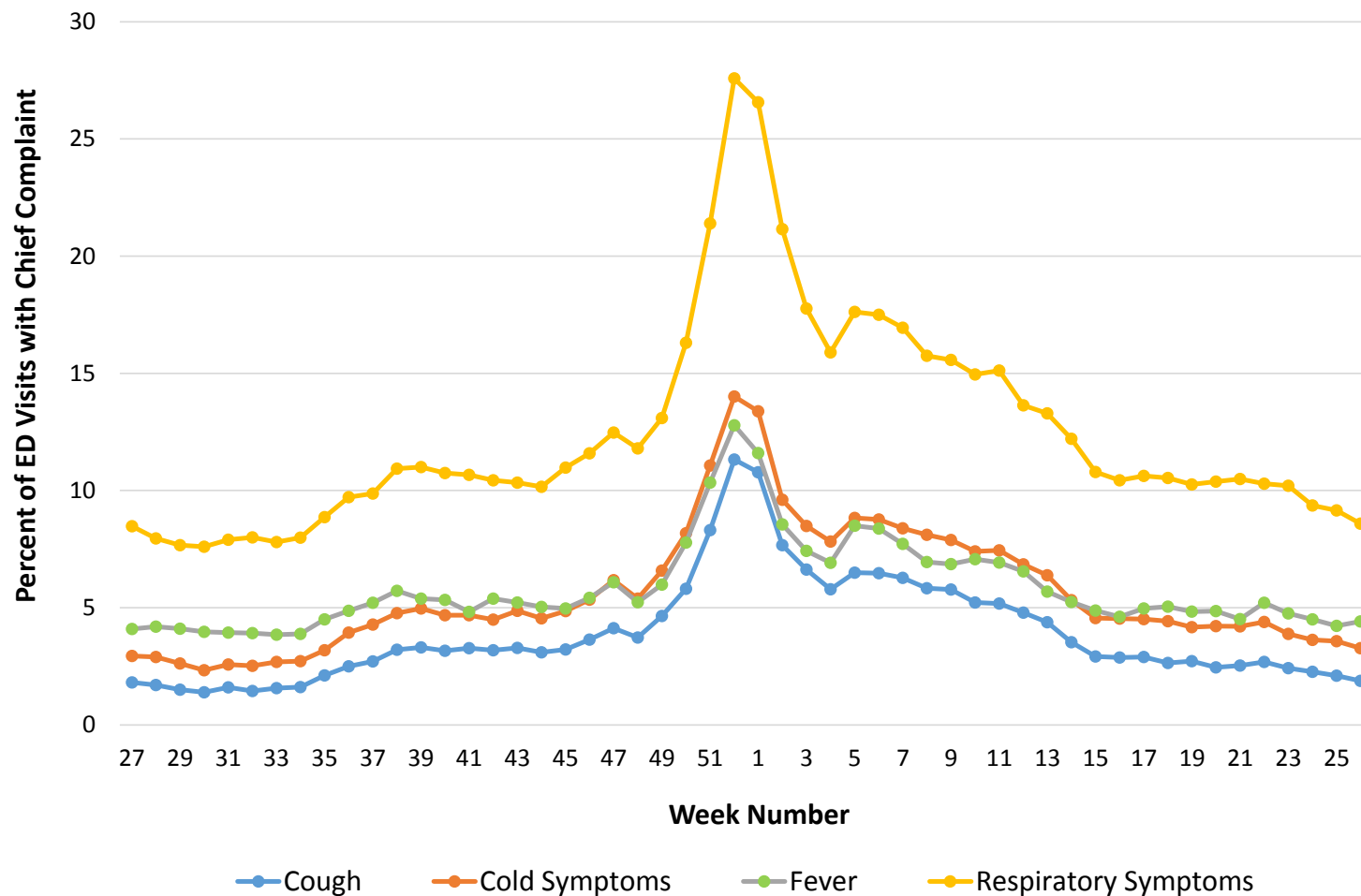
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# INFLUENZA SEASON SUMMARY, 2017-18



**Figure 15. Percent of Emergency Department Visit Chief Complaints for Cough, Cold, Fever, or Respiratory Symptoms by Week, 2017-18.**



Data Source: Reported Influenza Case Reports

Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology and Immunization Services Branch, 8/31/18

