# Maricopa County Department of Public Health
# WEEKLY INFLUENZA UPDATE
# 2016-2017 Season (10/02/2016-09/30/2017)

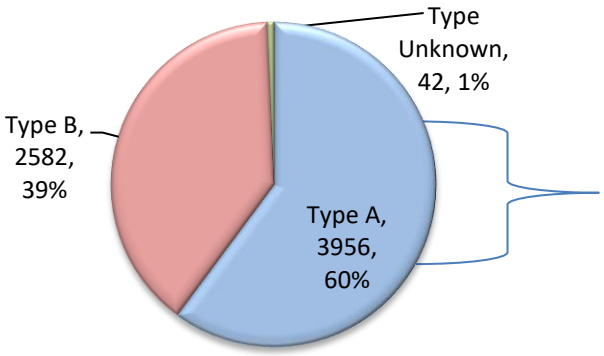
**July 20, 2017** | **2016-2017 Week 28(07/09/2017-07/15/2017)**

*The Influenza Season is defined by MMWR surveillance weeks, beginning week 40 (October) and continues through week 39 (the following September).*

The first official day of the 2016-2017 Influenza Season was October 2, 2016 and the surveillance season will continue through September 30, 2017. Maricopa County identified its first locally-acquired influenza case of the 2016-2017 season in week 40 (October 2016).

- Since October 2, 2016, **6,580** cases have been laboratory-confirmed
- Arizona reported ***Sporadic*** activity for week **28**
- ILI (Influenza like Illness) indicators in most settings took a slight decrease.
- Maricopa County reported 1 Pediatric Influenza Death in week 20

## Types of Influenza in Maricopa County




| Type A Subtypes | Total Cases | % |
|---|---|---|
| H1N1 | 31 | 1% |
| H3 | 1200 | 30% |
| Unknown | 2725 | 69% |

## Influenza Activity Levels, 2013-2017

| | 2016-2017 | 2015-2016 | 2014-2015 | 2013-2014 |
|---|---|---|---|---|
| First Confirmed Case, no travel | 10/03/2016 | 10/04/2015 | 10/03/2014 | 10/04/2013 |
| Weeks w/Widespread Activity (AZ) | Week 6 - 9 | Week 5 - 14 | Weeks 1-6 | Weeks 3-8 |
| Weeks w/Hospital ILI above Regional Threshold | Week 49, 52 & 1-23 | Week 51 - 16 | Weeks 50-11 | Weeks 52-9 |
| Weeks w/Outpatient visits above the Threshold | Weeks 47,48, 50-52, 1-3, 5-10, 14, & 17-21 | Weeks 45-52, 1-21, 23, 35 & 36 | Weeks 48, 50-52, 1-10, 12-14 | Weeks 51-52 & 1-11 |
| Peak Week | Week 6 (2/5-2/11/2016) | Week 8 (2/21-2/27/2016) | Week 3 (1/18-24/2015) | Week 6 (2/2-8/2014) |
| Number of Pediatric Deaths | 1 | 3 | 1 | 1 |
| Total Cases | 6,580 | 14,353 | 6,601 | 6,658 |

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## Annual Reports

www.FluNearYou.org

# Maricopa County Department of Public Health
# INFLUENZA UPDATE
# October 2, 2016 through July 15, 2017
# Posted July 20, 2017

## Individuals with Laboratory Confirmed Influenza

The 2016-2017 influenza season starts on 10/02/2016 (week 40) and continues through 9/30/2017 (week 39). This influenza season (2016-17), there have been **6,580** laboratory confirmed influenza cases. The State of Arizona has reported **sporadic activity for Week 28 (7/9 – 7/15/2017)**. The chart below shows influenza laboratory test results. This graph represents each week of the current season (red) and previous seasons.

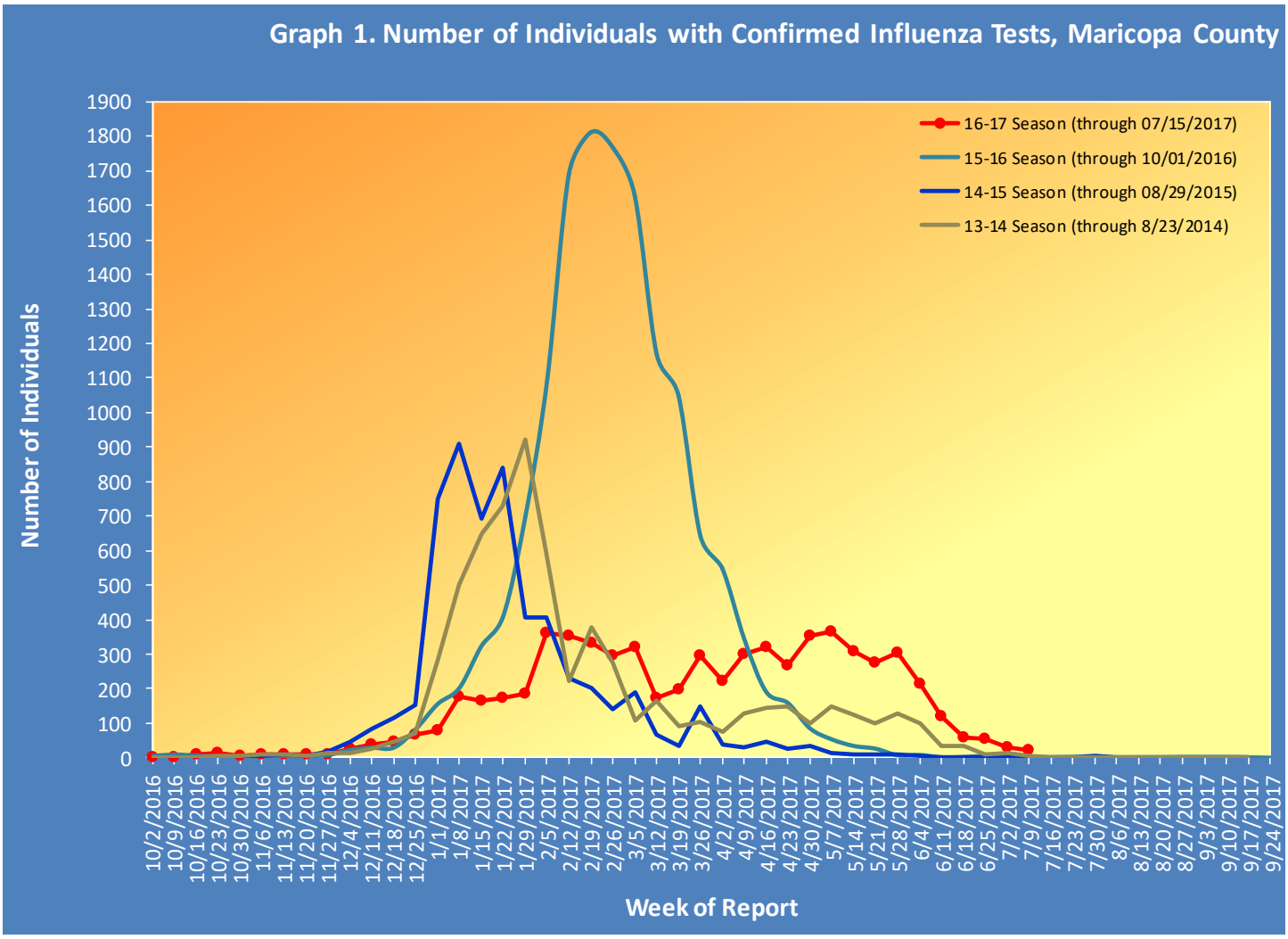


**Table 1** shows the number of laboratory-confirmed cases.

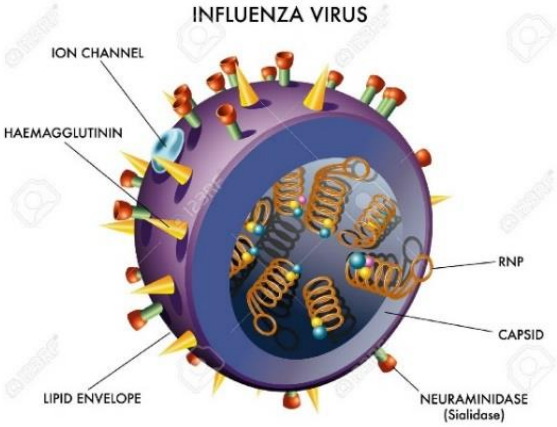
| Table 1. Laboratory-Confirmed Influenza Cases Compared to Last Week and Last Season, Maricopa County | | |
|---|---|---|
| **Total** | **Cumulative Season Total** | **Current Week Total** |
| 2016-2017 | 6580 | 21 |
| 2015-2016 | 14306 | 0 |
| 3 season average | 8786 | 5 |
| *% increase compared to 2015-2016 season* | *-54%* | *N/A* |
| *% increase compared to 3 season average* | -25% | 347% |
| *% increase compared to last week* | 0% | -28% |

## Types of Influenza

This influenza season **6,580** confirmed cases of influenza have been reported.

**Table 2** shows the number and percentage of cases reported by influenza type and subtype.

| Table 2. Types/Subtypes of Influenza by Test, 2016-2017 Season, Maricopa | | |
|---|---|---|
| **Total** | **6580** | **100%** |
| Type A | 3956 | 60% |
| *Subtype 2009 H1N1* | *31* | *1%* |
| *Subtype H3* | *1200* | *30%* |
| *Subtyping not performed or unknown* | *2725* | *69%* |
| Type B | 2582 | 39% |
| Type Unknown | 42 | 1% |

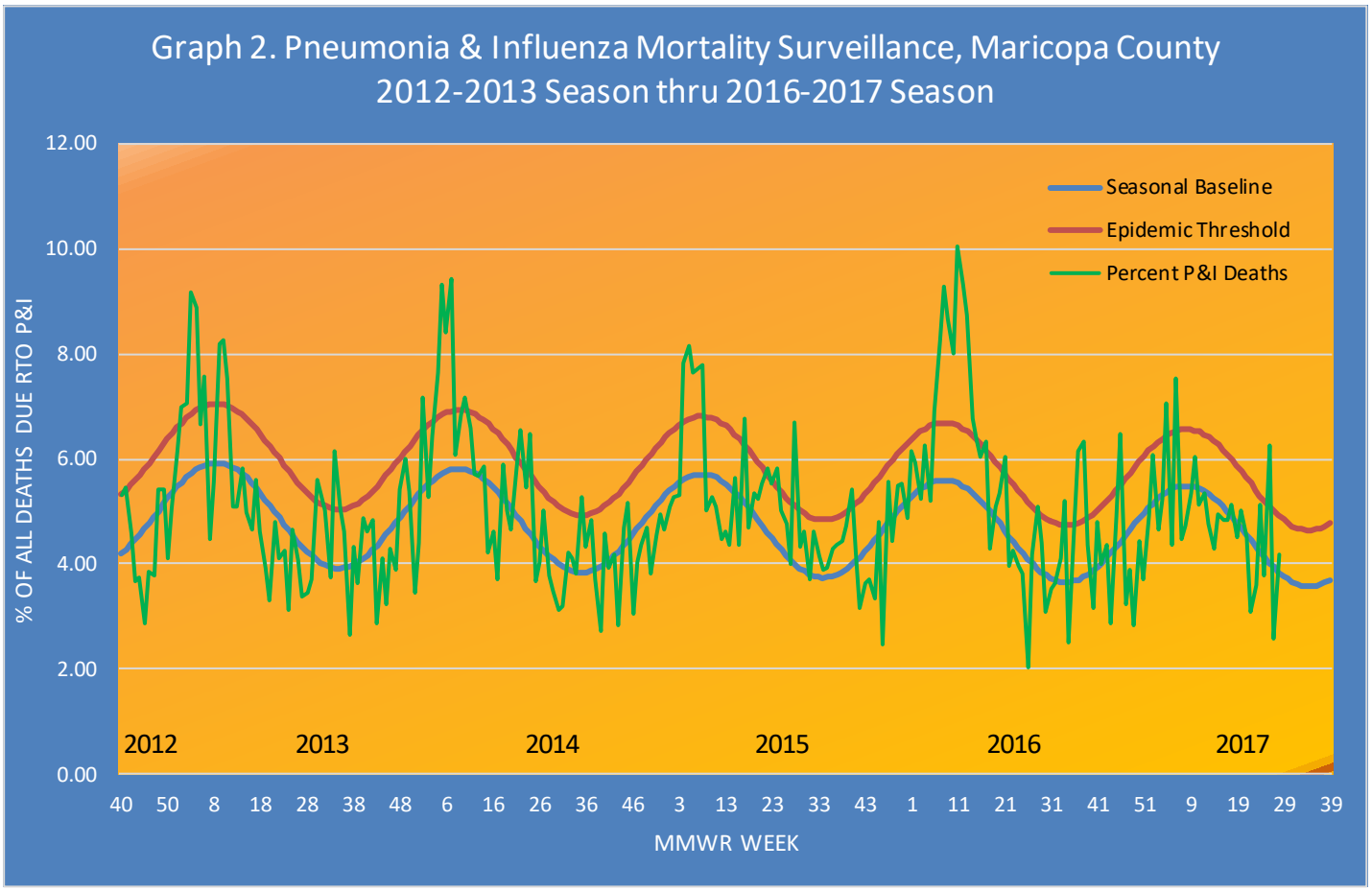


## Pneumonia and Influenza (P&I) Deaths

This influenza season there have been **1046** pneumonia and influenza (P&I) deaths. There has been **1 influenza mortality in a child and 24** adult influenza related mortality reported this season in Maricopa County.

**Table 3** shows the number of P&I deaths and the number of influenza deaths that occurred this season and last season.

| Table 3. Pneumonia and Influenza (P&I) Deaths, 2016-17 & 2015-16 Seasons, Maricopa County | | | | |
|---|---|---|---|---|
| | Current Season (2016-2017) As of [07/15/2017] | | Last Season (2015-2016) As of [07/16/2016] | |
| | Pneumonia and Influenza | Influenza | Pneumonia and Influenza | Influenza |
| **Pediatric (Under Age 18)** | 7 | 1 | 13 | 3 |
| **Adult (18 and Over)** | 1039 | 24 | 1260 | 88 |

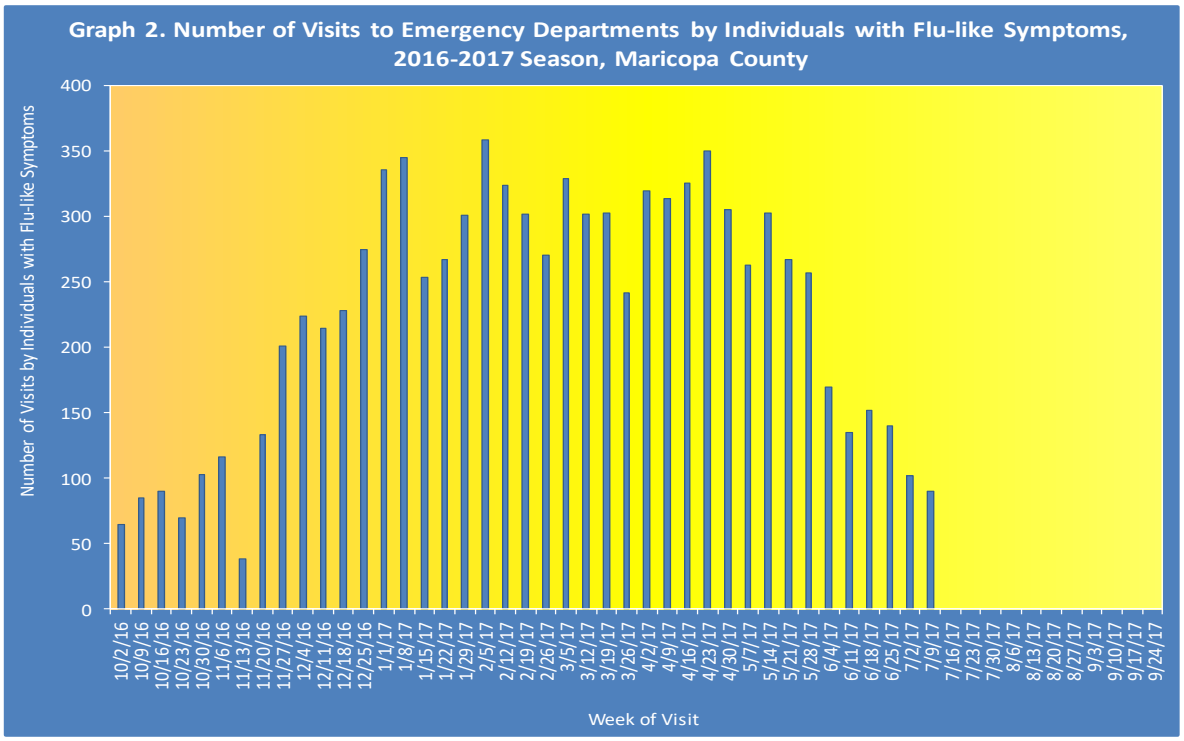



Based on Arizona Department of Vital Registration mortality surveillance data available on **July 15, 2017, 4.19%** of the deaths occurring during Week **28(7/9 – 7/15/2017)** were due to P&I. This percentage is **below** the epidemic threshold of **4.92% for week 28.**

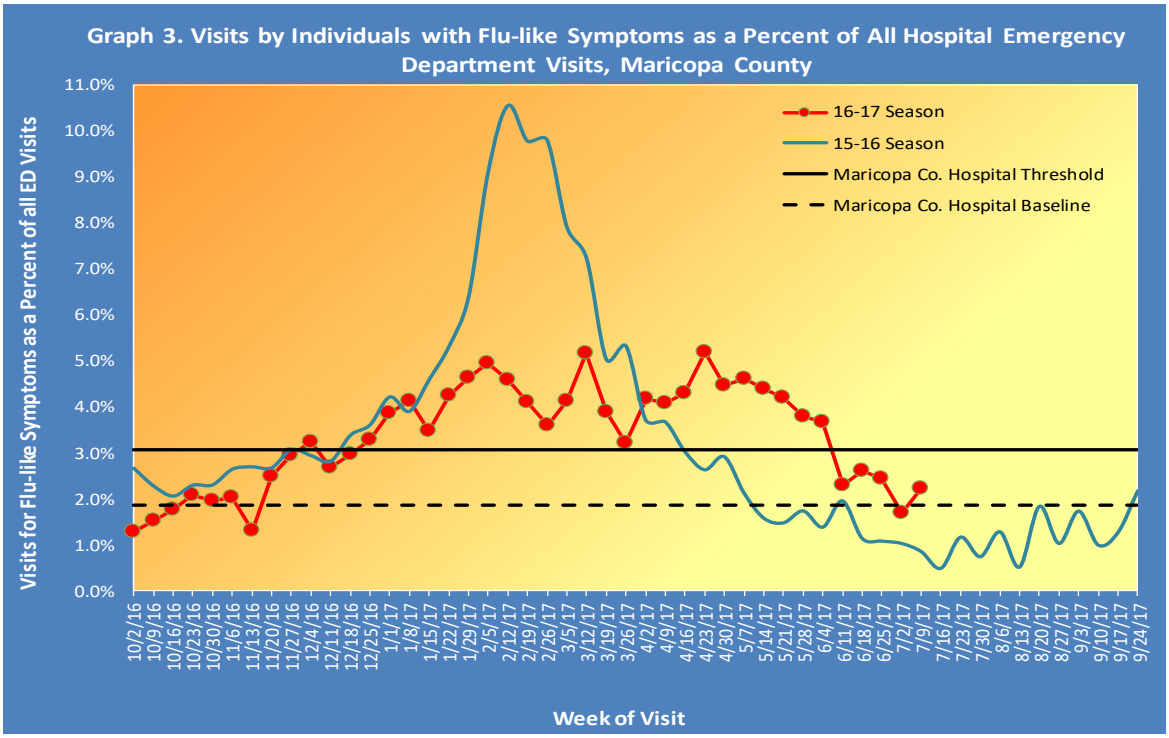
## Influenza Like Illness Activity at Hospital Emergency Departments

This influenza season there have been **9,272** visits to emergency departments by individuals with flu-like symptoms. To be counted as an individual with flu-like symptoms, the patient must have both fever and cough/sore throat.

**Graph 2** shows the number of patients with flu-like symptoms seen at 12 emergency departments.

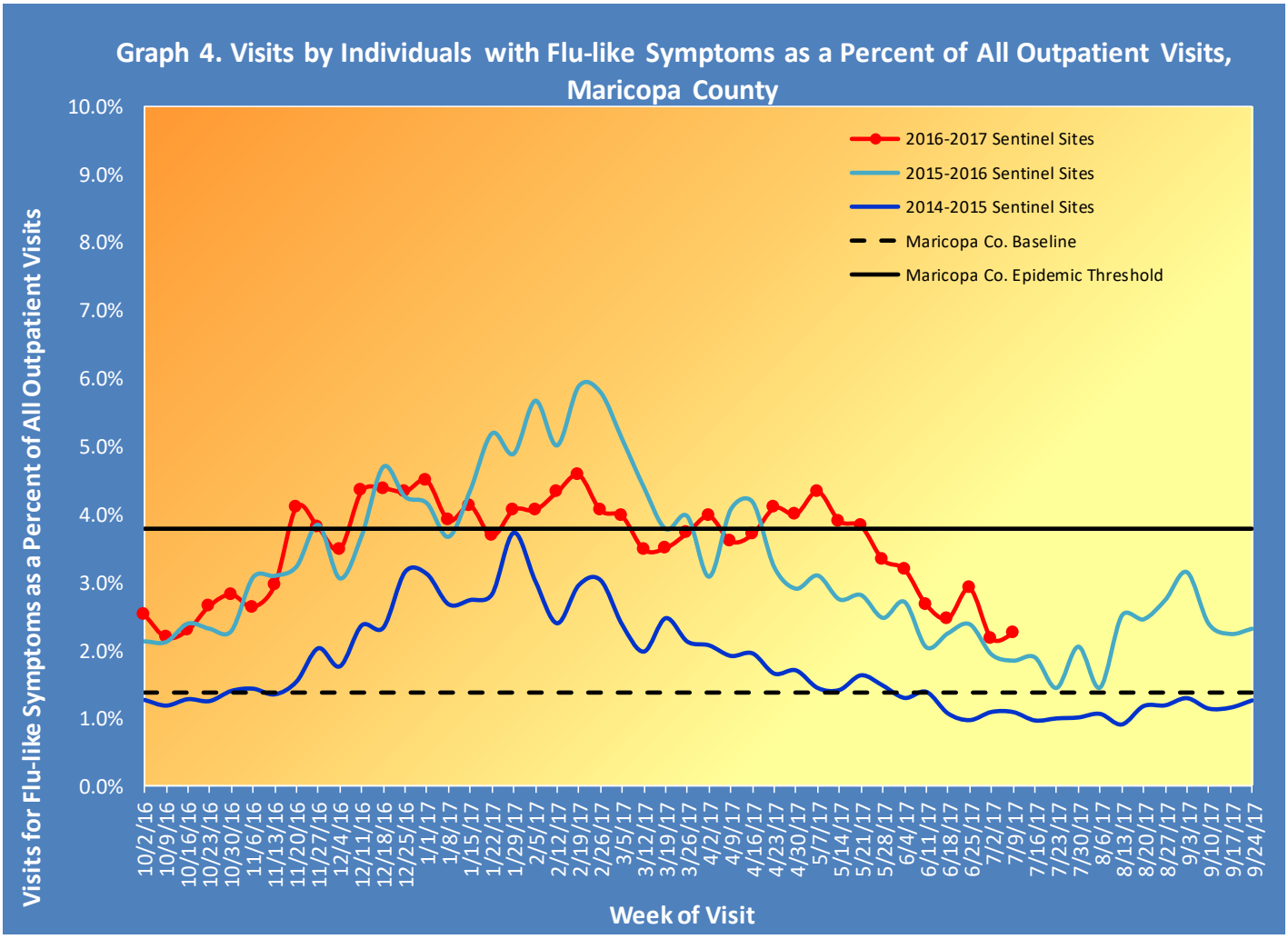



**Graph 3** shows what percent of all emergency department visits were individuals with flu-like symptoms (fever and cough/sore throat). The graph shows the trend week by week, with the current season in red.



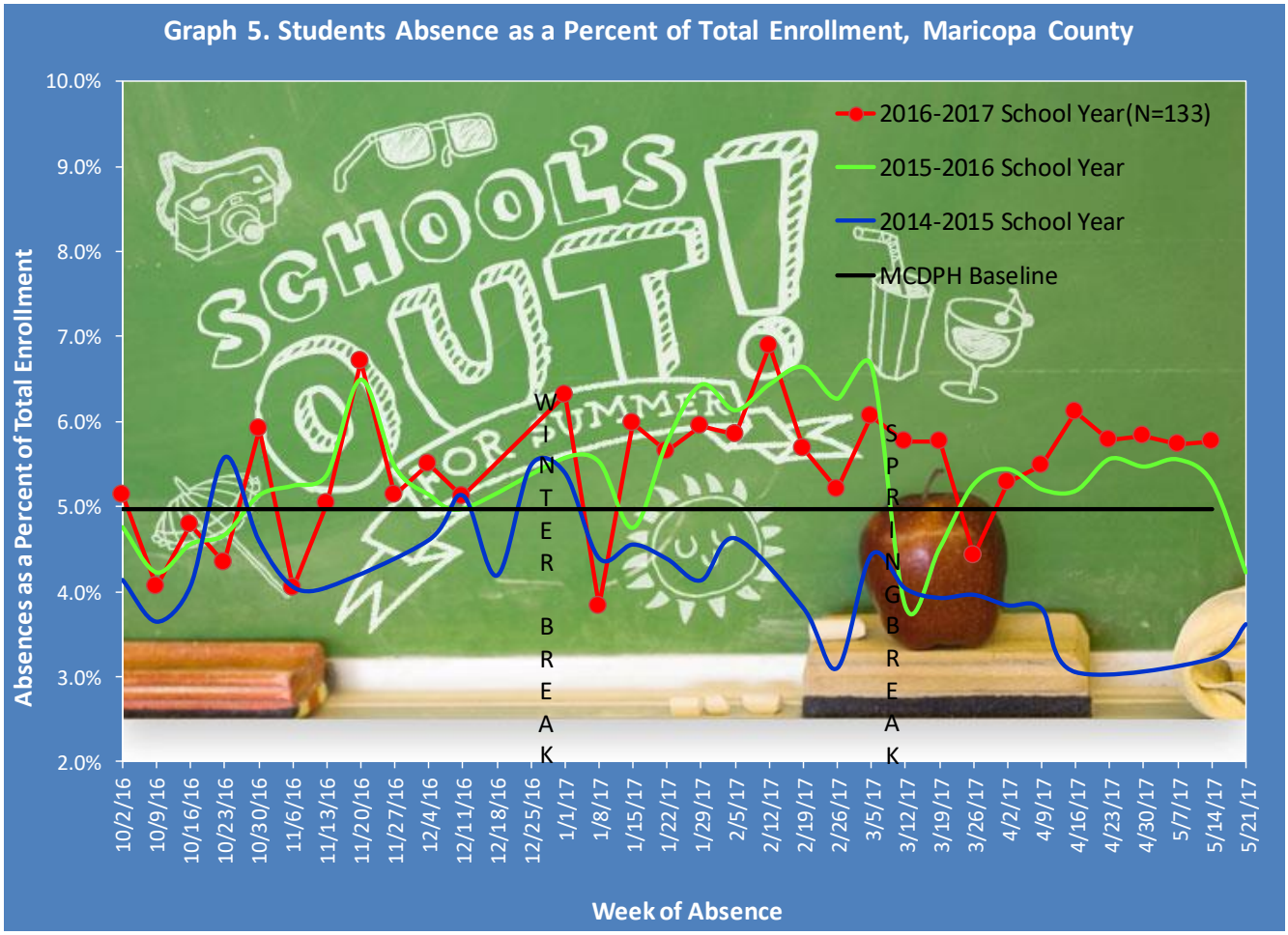
## Influenza-Like Illness Activity at Sentinel Site Outpatient Facilities Reported to the Centers for Disease Control and Prevention (CDC)

Maricopa County sentinel sites (outpatient facilities) report visits due to flu-like symptoms. This week, **2.24%** of visits at outpatient facilities were due to flu-like symptoms, last week outpatient facilities reported **2.16%**.



## Absentee Activity at Schools

**Graph 5** shows the percent of students reported absent and illustrates the week by week trend, for the current school year (No school surveillance due to winter break & spring break or summer vacation).




***The Maricopa County Department of Public Health wishes to thank all of the Influenza surveillance participants:***

*Arizona Department of Health Services*

*Local Hospital Emergency Departments & Infection Control Practitioners*

*Local Outpatient Facilities and Medical Directors*

*Maricopa County Public Schools*

*Maricopa County Office of Vital Statistics*

***Questions about this report may be directed to:***

***epidemiology@mail.maricopa.gov***

***Information on influenza activity for the state, the U.S. and the world may be found at the following websites:***

http://www.azdhs.gov/phs/oids/epi/flu/index.htm (ADHS)
https://www.cdc.gov/flu/weekly/fluactivitysurv.htm (CDC)
http://www.who.int/influenza/gisrs_laboratory/updates/en/index.html (WHO)