

## Summary & Highlights

During the holiday week, week 52, Columbus and Franklin County influenza activity indicators showed a mixture of decreases, increases, and stable values.

- Local Geographic Activity Designation (Click [here](#) for definitions) = LOCALIZED
- Hospital labs reported 345 tests run with 12 positive results (3.5%) for week 51, this percentage positive is 47% higher than the previous week.
- Hospital emergency department (ED) and pediatric urgent care (PUC) ILI indicators and respiratory related visits were stable compared to the previous week, with figures for ED visits close to the baseline average for this time of year.
- Sales of over-the-counter medications were mostly down during the holidays (cough and cold, electrolytes, anti-fever, chest-rubs, throat lozenges) with the exception of an increase in thermometer sales. A decrease in antiviral prescriptions was reported in week 51 (most recent week available).
- Nationally, during week 51, all influenza viruses reported to CDC this week were influenza A, and all subtyped influenza A viruses were 2009 influenza A (H1N1).
- Nationally, the proportion of outpatient visits for influenza-like illness increased.

## Local Flu Activity Dashboard (All data are preliminary and may change as more reports are received.)

Indicators	Week Available	Current Week Value	% Change Chart from Last Week (-)   (+)	# Weeks <sup>¥</sup> ▲ • ▼	General Trend Chart
Hospital Lab Data	52	1.6% Pos.	-53.0%	1 ▼	
ILI Outpatient Data (Sentinel Medical Sites)	52	0.16% of All Visits	13.7%	2 ▲	
Hospital ED Data†:					
Coded as ILI	51	4.6% of All ED Visits	13.4%	2 ▲	
Complaint Defined as ILI‡	52	21.1% of All ED Visits	-1.4%	1 •	
Categorized as Respiratory	52	18.1% of All ED Visits	0.6%	1 •	
Pediatric Urgent Care Data†:					
Complaint Defined as ILI‡	52	58.9% of All PUC Visits	-0.4%	1 •	
Categorized as Respiratory	52	57.6% of All PUC Visits	1.9%	1 •	
School Absences	52	Winter Break	Winter Break	NA	
Death Certificate Pneumonia & Influenza Deaths†	52	6.25% of All Deaths	-23.3%	3 ▼	
Medication Data:					
OTC Cough & Cold Sales	52	6,957 Total Sales	-8.3%	1 ▼	
Thermometer	52	172 Total Sales	41.0%	1 ▲	
Antiviral Prescriptions	51	0.86% of All Anti-Infectives	-15.8%	9 ▼	
Influenza Associated Hospitalization	52 (as of 1/6 12:00 PM)	0 Cases Reported	-100.0%	1 ▼	

Reportable Conditions**	Cumulative Numbers as of August 1 - Jan. 6, 2009*, 12:00 PM	
	Suspected	Confirmed
Influenza Clusters/Outbreaks Reported	1	0
Influenza Associated Hospitalizations (IAH) Reported	1	460
IAH Confirmed Pandemic (H1N1) 2009§	Not Available	267
Pediatric Influenza Associated Death Reported	0	2

\*Numbers subject to fluctuations as lab results are received and suspects are determined confirmed or not a case. Due to reporting variations, these numbers may represent an undercount.

\*\*Based on assigned jurisdiction being Franklin County or City of Columbus and date case was created on the Ohio Disease Reporting System.

§Information provided for references (Reportable condition is any influenza associated hospitalization, regardless of influenza type).

†Franklin County, OH residents only (based on zipcode); ‡Broader definition used than initial weekly reports to encompass more potential ILI.

¥ Number of weeks "▲" = Increase (>2%), "▼" = Decrease (>2%), "•" = Stable (-2% to +2%)

### Pneumonia and Influenza (P&I) Mortality

In week 52 of 2009 (Dec. 27<sup>th</sup>, 2009 – Jan. 2<sup>nd</sup>, 2010), 6.3% of all Columbus deaths were reported as due to pneumonia or influenza (Figure 1). Nationally, 7.7% of deaths reported were due to pneumonia or influenza in week 51. This national percentage was below the national epidemic threshold of 7.4%.

### Influenza Morbidity and Influenza-Like Illness (ILI) Reports

Outpatient visits for ILI at sentinel medical practice reporting sites (0.16% of all visits reported) decreased in week 51 compared to the previous week. The week 51 percentage of Franklin County resident BioSense ED hospital encounters is 4.6% for ILI coded chief complaints and 2.3% for ILI diagnosis (Figure 2). For the most part, specific complaints of influenza and defined influenza like illness symptoms in week 52 are stable compared to the previous week for ED and Pediatric Urgent Care sites (Figures 2-4). In week 52, the ED percentage of visits for ILI defined symptoms is similar to the weekly average typically seen in past seasons.

Nationally, during week 51 of 2009, 3.2% of patient visits reported through the US Outpatient Influenza-like Illness Surveillance Network (ILINet), were due to influenza-like illness (ILI). This percentage has increased compared to the previous week. This percentage is above the national baseline of 2.3%.

### Laboratory Surveillance

During week 52 of 2009, reporting Franklin County sentinel laboratories tested 186 specimens, with 3 (1.6%) positive (Figure 5). The total number of tests done by local reporting labs from week 35 through week 52 is 14,127, with 2,195 positives (2,185 type A, 10 type B). Nationally, during week 51, WHO and NREVSS laboratories reported 3,906 specimens tested for influenza viruses, 154 (3.9%) of which were positive (Figure 3). During week 51, all influenza viruses reported to CDC this week were influenza A, and all subtyped influenza A viruses were 2009 influenza A (H1N1). See <http://www.cdc.gov/flu/weekly/> for a comprehensive national report.

The table below shows 2009-10 (starting August 30<sup>th</sup>, 2009) cumulative PCR and culture influenza lab results from ODH lab (totals as of 12/30/2009). **Note: At the time of this report, updated ODH Lab data was not available.**

Location	# Seasonal A (H1)	# Seasonal A (H3)	# Seasonal B	# Pandemic A (H1)	# PCR Influenza Not Detected
Franklin County	0	0	0	139*	272
Ohio	1	1	0	1,185*	1,643

Source: ODH Lab (based on county of provider submitting specimen, not county of patient's residence)

\*Not an official count of Pandemic Influenza A (H1N1) in Franklin County or Ohio. Similar to the CDC and ODH, individual case counts are no longer being tracked. Testing at ODH is limited to those meeting criteria. See <http://www.cdc.gov/flu/weekly/> or <http://www.cdrcinfo.com/H1N1flu.html> for more details.

### ED and Pediatric Urgent Care Respiratory Visits

In the 52<sup>nd</sup> week of 2009, the percentage of all ED visits categorized as *respiratory* (18.1%) was similar to the percentage seen the previous week. The percentage of reporting Pediatric Urgent Care visits categorized as *respiratory* (57.6%) was slightly higher than the previous week (Figure 6).

### Over-the-Counter Medication Sales and Antiviral Prescriptions

In week 52 of 2009, there were decreases in most of the OTC medication being tracked (cough & cold, electrolytes, chest rubs, anti-fever, throat lozenges) with the exception of an increase in thermometer sales (Figure 7). In week 51 (latest week available), the percentage of Franklin County pharmacy prescriptions for antivirals, out of all anti-infective prescriptions, decreased for the 9<sup>th</sup> week in a row (Figure 8). During week 51, the national antiviral prescription percentage also decreased.

### Additional Influenza Activity Web Links:

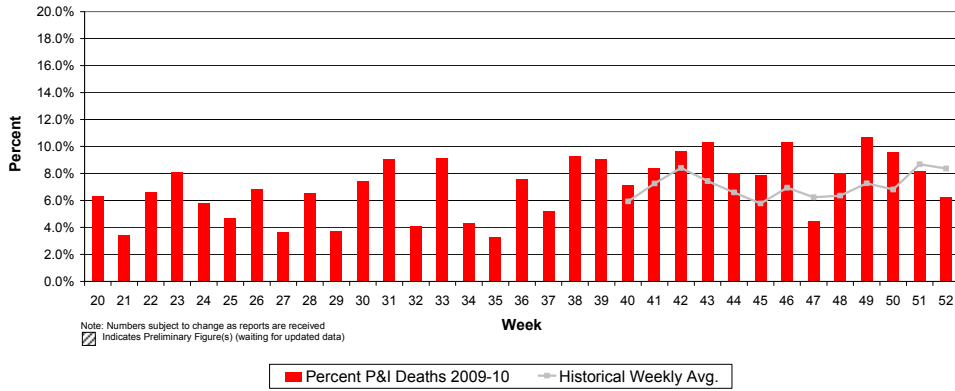
National Pandemic H1N1 Situation Updates: <http://www.cdc.gov/h1n1flu/update.htm>

International Pandemic H1N1 Activity Map: <http://www.cdc.gov/h1n1flu/updates/international/map.htm>

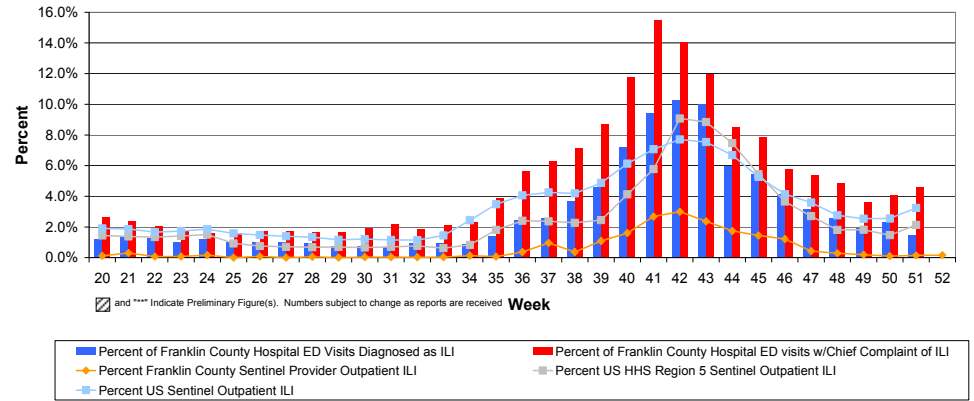
World health Organization Situation Updates: <http://www.who.int/csr/disease/swineflu/updates/en/index.html>

# Columbus & Franklin County Influenza Monitoring Summary – Week 52 (12/27/09-1/2/2010)

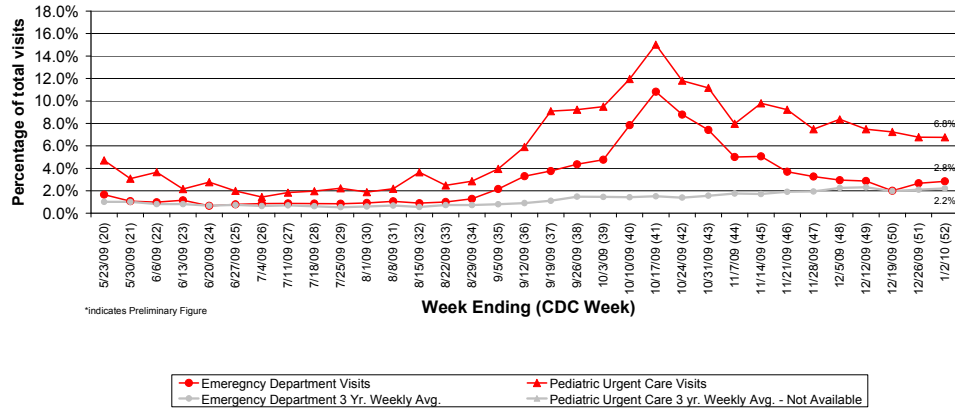
**Figure 1: Percentage of Deaths due to Pneumonia and Influenza  
Columbus, Ohio 2009-10**



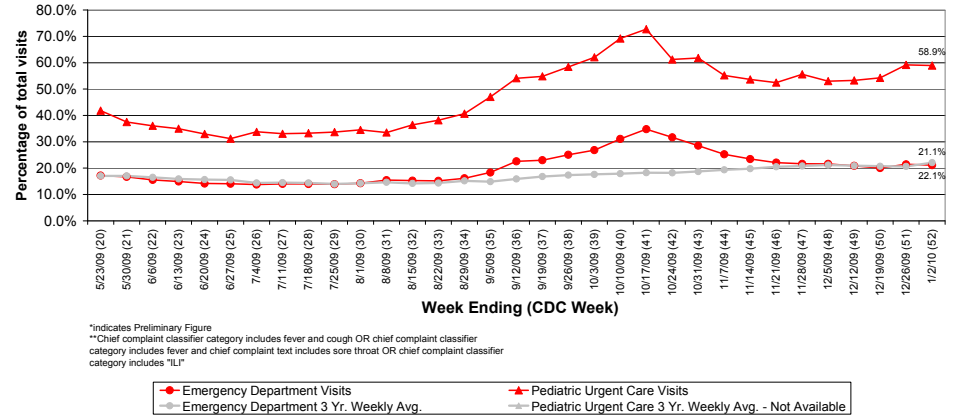
**Figure 2: Percentage of Local, National, and HHS Region 5 ILI Outpatient visits and Percentage of Franklin County Resident BioSense Hospital ILI ED Visits, 2009-10**



**Figure 3: Franklin County Resident ILI Specific Complaint ED and Pediatric Urgent Care Visits,  
2009-10, Franklin County, OH**

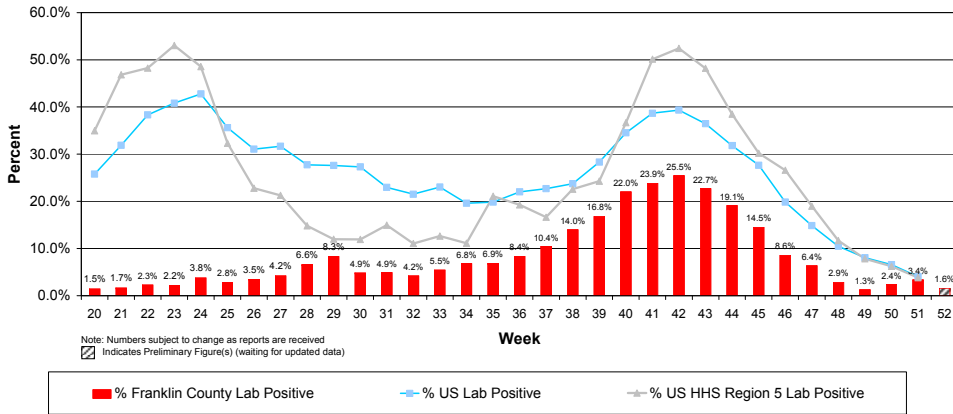


**Figure 4: Franklin County Resident ILI Defined\*\* ED and Pediatric Urgent Care Visits, 2009-10,  
Franklin County, OH**

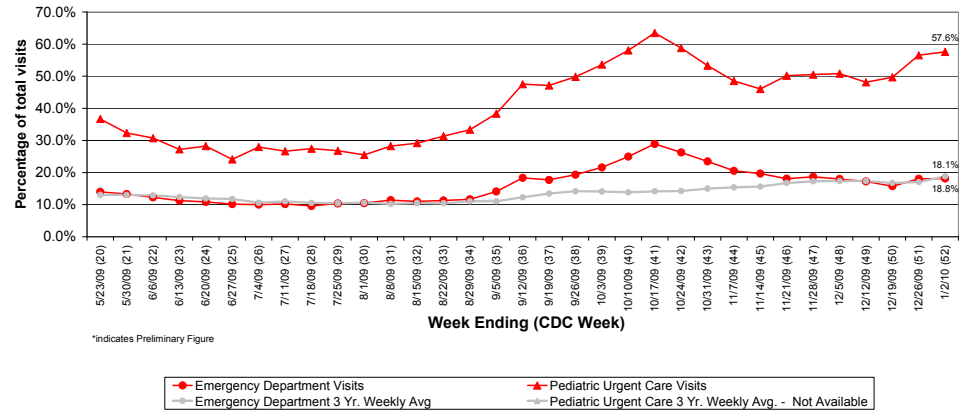


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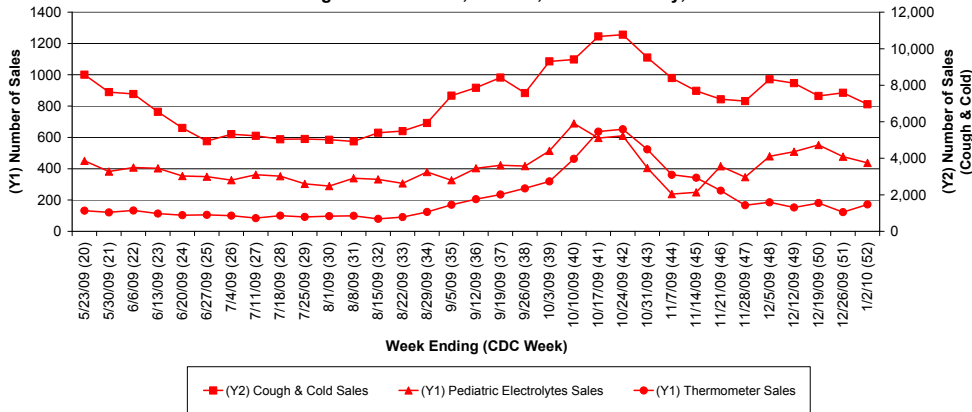
**Figure 5: Percentage of Local Reporting and National Laboratory Positive Influenza Tests by Week, 2009-10**



**Figure 6: Franklin County Resident Respiratory ED and Pediatric Urgent Care Visits, 2009-10, Franklin County, OH**



**Figure 7: Selected Number of Over-the-Counter Medication Sales and Weekly Baseline Averages and Medians, 2009-10, Franklin County, OH**



**Figure 8: Percentage of Antiviral Prescriptions out of Total Number of Anti-Infective Prescriptions (Selected Pharmacies)**

