

Flu Watch

Week Ending October 6, 2012 (MMWR Week 40)

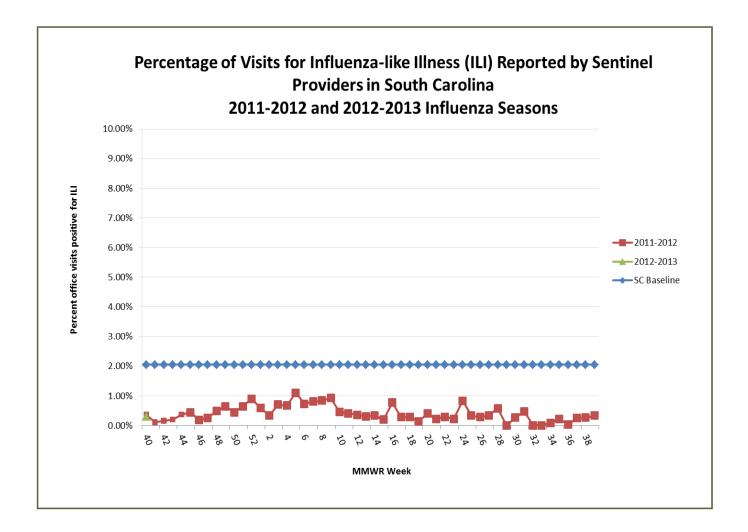
All data are provisional and may change as more reports are received.

In this issue:		MMWR Week 40 at a Glance:	
ILINet 2		Influenza Activity Level: Sporadic Note: Activity level definitions are found on page 11	
Virologic surveillance 4	4	ILI Activity Status (South Carolina baseline is 2.05%*): Below baseline in the Upstate (.23%), Midlands (.44%), and along the Coast (0%). The state ILI percenter was .31%. These data reflect reports	
Rapid antigen tests 6	6	from 12 (37.5%) providers. Note: See map of counties on page 3 for regional descriptions	
Hospitalizations and deaths 7	7	SC Viral Isolate and RT-PCR Activity: Three positive specimens were reported.	
Syndromic Surveillance 7	7	Positive Rapid Flu Test Activity: Twenty-three positive rapid tests were reported.	
Activity level definitions 1	11	Hospitalizations: No lab confirmed hospitalizations were reported.	
SC influenza surveillance 1 components	12	Deaths: No lab confirmed deaths were reported. **Note: Additional charts and/or graphs will be presented as the season progresses and more data are	
		available.	

Summary of ILI Activity, Positive Confirmatory Tests, and Influenza Associated Hospitalizations and Deaths

	Current week	Previous week	Change from previous week
Percent of ILI visits reported by ILINet providers	.31%	.33%	▼.02
Number of positive confirmatory tests	3	4	V 1
Number of lab confirmed flu hospitalizations	0	0	0
Number of lab confirmed flu deaths	0	0	0

During the most recent MMWR week, .31% of patient visits to SC ILINet providers were due to ILI. This is below the state baseline (2.05%). This ILI percentage compares to .37 % this time last year. Reports were received from providers in 9 counties, representing 6 of the 8 regions.



*The SC baseline is the mean percentage of patient visits for ILI during non-influenza weeks (weeks when percent of positive lab tests was below 20%) for the previous three seasons plus two standard deviations.

County	ILI %	County	ILI %
Abbeville		Greenwood	NR
Aiken	.51%	Hampton	0%
Allendale		Horry	NR
Anderson	2.47%	Jasper	NR
Bamberg		Kershaw	0%
Barnwell		Lancaster	
Beaufort	NR	Laurens	NR
Berkeley	NR	Lee	
Calhoun		Lexington	NR
Charleston	NR	Marion	
Cherokee		Marlboro	
Chester		McCormick	NR
Chesterfield		Newberry	
Clarendon		Oconee	
Colleton		Orangeburg	
Darlington		Pickens	NR
Dillon	NR	Richland	NR
Dorchester	NR	Saluda	.64%
Edgefield		Spartanburg	.11%
Fairfield		Sumter	NR
Florence	.61%	Union	
Georgetown	NR	Williamsburg	
Greenville	0%	York	1.17%

Reported Influenza-Like Illness by Sentinel Providers September 30, 2012-October 6, 2012

NR: No reports received ----: No enrolled providers



Geographic Region	ILI %	# of Reporters
Upstate-Regions 1 -2	.23	6
Midlands-Regions 3-5	.44	5
Coastal-Regions 6-8	0	1

*County ILI percentages are affected by the number of reporting providers within that county.

Positive confirmatory influenza test results* Current MMWR Week (09/30/12-10/06/12)

	BOL	Other clinical labs
Number of specimens tested	4	NA
Number of positive specimens	3	0
Influenza A unsubtyped		
Influenza A H1N1	3	
Influenza A H3N2		
Influenza B		
Other		

Includes culture, RT-PCR, DFA, and IFA

During the previous MMWR week, three positive specimens were reported.

Positive confirmatory influenza test results* Cumulative (09/30/12-10/06/12)

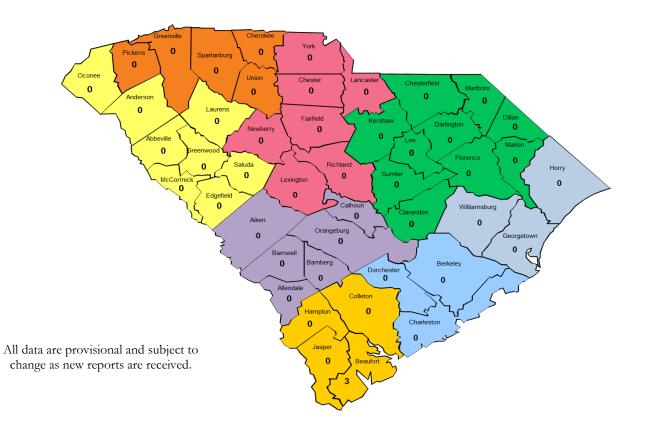
	BOL	Other clinical labs
Number of specimens tested	4	NA
Number of positive specimens	3	
Influenza A unsubtyped		
Influenza A H1N1	3	
Influenza A H3N2		
Influenza B		
Other		

Includes culture, RT-PCR, DFA, and IFA

Positive Confirmatory Tests by County Current Week 09/30/12-10/6/12

County	Positive Tests	County	Positive Tests	County	Positive Tests
Abbeville		Dillon		Lexington	
Aiken		Dorchester		Marion	
Allendale		Edgefield		Marlboro	
Anderson		Fairfield		McCormick	
Bamberg		Florence		Newberry	
Barnwell		Georgetown		Oconee	
Beaufort	3	Greenville		Orangeburg	
Berkeley		Greenwood		Pickens	
Calhoun		Hampton		Richland	
Charleston		Horry		Saluda	
Cherokee		Jasper		Spartanburg	
Chester		Kershaw		Sumter	
Chesterfield		Lancaster		Union	
Clarendon		Laurens		Williamsburg	
Colleton		Lee		York	
Darlington					

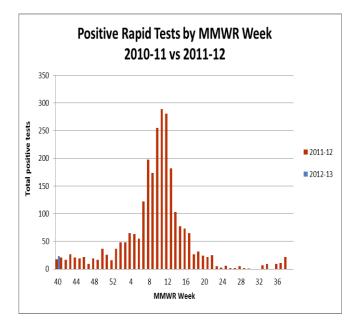
Map of Positive Confirmatory Tests by County Cumulative 09/30/12-10/6/12

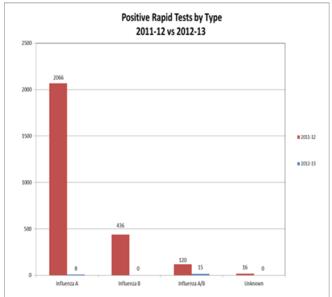


During the past MMWR week, (the first of the current season), 23 positive rapid antigen test were reported. Of these, there were 8 influenza A and 15 influenza B. This compares to 18 this time last year.

County	Positive Tests	County	Positive Tests	County	Positive Tests
Abbeville		Dillon		Lexington	
Aiken		Dorchester		Marion	
Allendale		Edgefield		Marlboro	
Anderson	5	Fairfield		McCormick	
Bamberg		Florence		Newberry	
Barnwell		Georgetown		Oconee	1
Beaufort	3	Greenville	2	Orangeburg	
Berkeley		Greenwood		Pickens	
Calhoun		Hampton		Richland	
Charleston		Horry	8	Saluda	
Cherokee		Jasper		Spartanburg	
Chester		Kershaw		Sumter	4
Chesterfield		Lancaster		Union	
Clarendon		Laurens		Williamsburg	
Colleton		Lee		York	
Darlington					

Positive Rapid Flu Tests by County September 30, 2012 – October 6, 2012





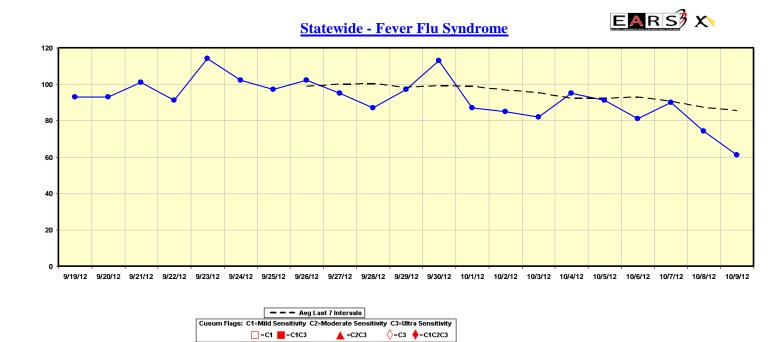
IV. Influenza hospitalizations and deaths

During the past MMWR week, no lab confirmed* influenza hospitalizations were reported. No lab confirmed deaths were reported.

	Total nun	Total number*		
Number of Hospitals Reporting (current week)	16			
	Previous MMWR (09/30-10/6/12)	Cumulative (since 09/30/12)		
Hospitalizations	0	0		
Deaths	0	0		

*These data are provisional. Lab confirmation for hospitalizations and deaths includes culture, PCR, DFA, IFA, and rapid test.

V. South Carolina Disease Alerting, Reporting & Tracking System (SC-DARTS)



Cumulative Sums Analysis (CUSUM):

C1 = Flags because of sharp rise in counts from 1 day to the next

C2 = Flags because of aberrant, initial, rapid rise in counts and peak in counts

C3 = Flags because of a gradual rise in counts over a short time

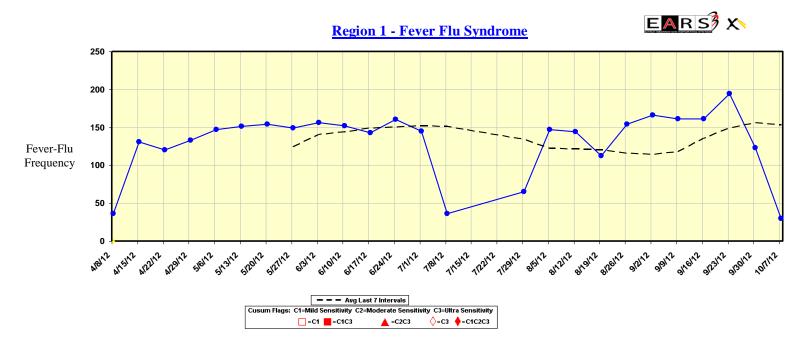
The SC Statewide Fever-Flu Syndrome graph above illustrates the <u>daily</u> counts of hospital emergency department (ED) visits with an Influenza-like Illness (ILI) for the past 21 days. A total of <u>21 hospital</u> facilities are reporting to the

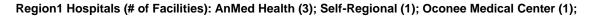
SC-DARTS system. These 21 include: AnMed Health (Region 1); Self Regional (Region 1); Oconee Medical Center (Region 1); Palmetto Health Alliance (Region 2 & 3); Greenville Hospital System (Region 2); Kershaw Health (Region 4); McLeod Health (Region 4); Elgin Urgent Care (Region 4); Medical University of South Carolina (Region 7); Roper (Region 7); St. Francis (Region 7); Trident (Region 7); Colleton (Region 8); and Hampton Regional (Region 8).

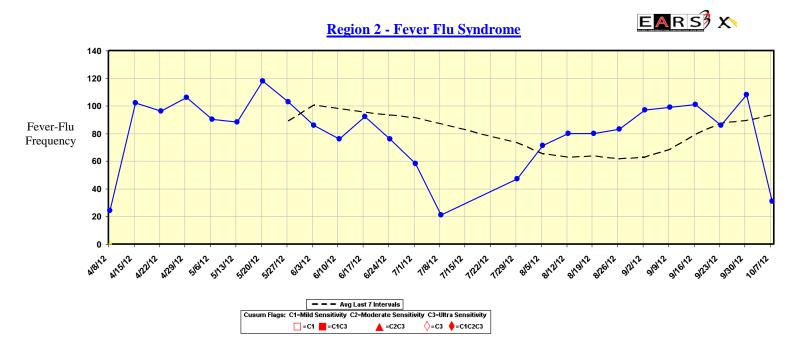
Statewide CUSUM Flag Alerts Description:

No flags for the past week.

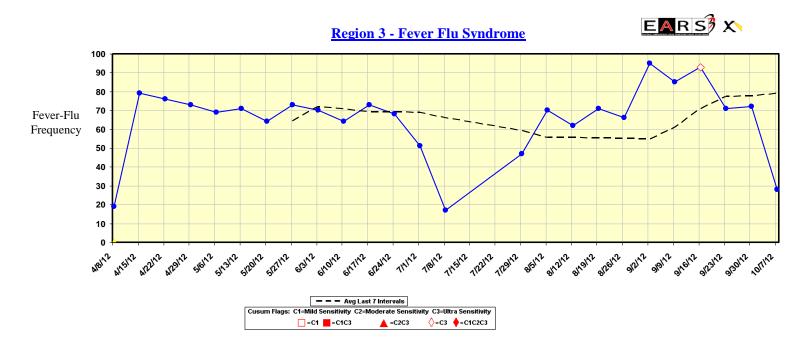
Below are the fever-flu syndrome graphs by Region for the past 180 days (weekly interval).



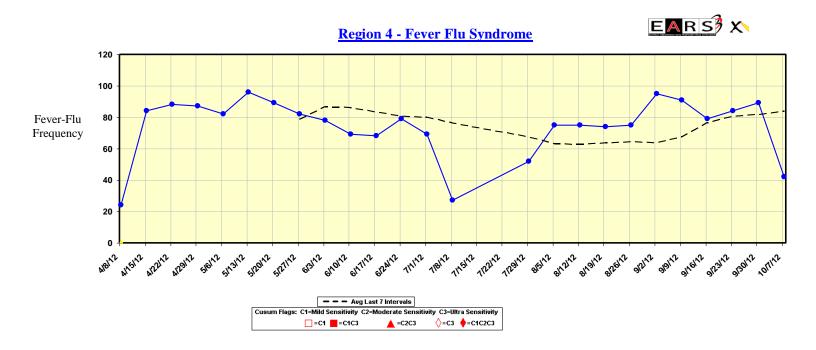




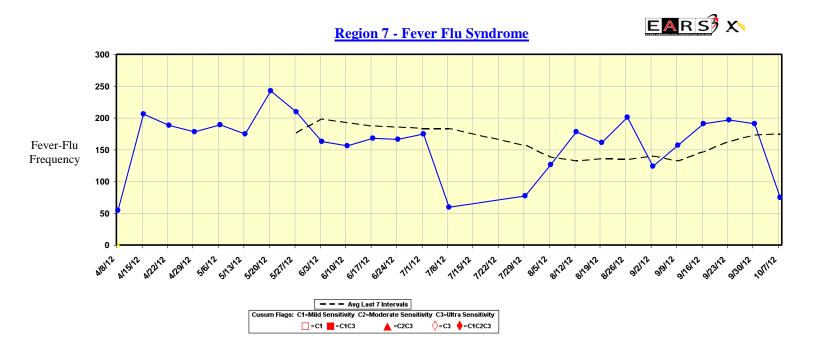
Region 2 Hospitals (# of Facilities): Greenville Hospital System (4); Palmetto Health Easley (1)

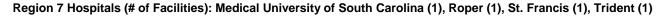


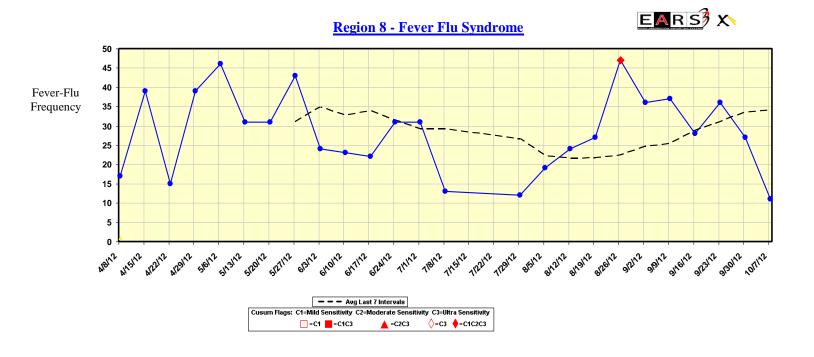
Region 3 Hospitals (# of Facilities): Palmetto Health Baptist (1), Palmetto Health Richland (1)



Region 4 Hospitals (# of Facilities): Kershaw Health (1); McLeod Health (1); Elgin Urgent Care (1)







Region 8 Hospitals (# of Facilities): Hampton Regional (1), Colleton (1)

VI. Influenza activity levels

Activity Level	ILI activity/Outbreaks		Laboratory data
No activity	Low	And	No lab confirmed cases
	Not increased	And	Isolated lab-confirmed cases
Sporadic			OR
	Not increased	And	Lab confirmed outbreak in one institution
	Increased ILI in 1 region; ILI		Recent (within the past 3 weeks) lab evidence of
	activity in other regions is not	And	influenza in region with increased ILI
	increased		
			OR
Local	2 or more institutional		Recent (within the past 3 weeks) lab evidence of
	outbreaks (ILI or lab		influenza in region with the outbreaks; virus activity is
	confirmed) in 1 region; ILI	And	no greater than sporadic in other regions
	activity in other regions is not		
	increased		
	Increased ILI in 2-3 regions	And	Recent (within the past 3 weeks) lab confirmed
			influenza in the affected regions
Regional			OR
	Institutional outbreaks (ILI or	And	Recent (within the past 3 weeks) lab confirmed
	lab confirmed) in 2-3 regions		influenza in the affected regions
	Increased ILI and/or		Recent (within the past 3 weeks) lab confirmed
Widespread	institutional outbreaks (ILI or	And	influenza in the state.
wiecspicau	lab confirmed) in at least 4 of	1110	
	the regions		

VII. South Carolina Influenza Surveillance Components

South Carolina influenza surveillance consists of mandatory and voluntary reporting systems for year-round influenza surveillance. These networks provide information on influenza virus strain and subtype and influenza disease burden.

Mandatory Reporting

Positive confirmatory test reporting

Positive influenza culture, PCR, DFA, and IFA results from commercial laboratories should be reported to DHEC within 7 days electronically via CHESS or using a DHEC 1129 card.

Positive rapid antigen test reporting

Summary numbers of positive rapid influenza tests and influenza type identified should be sent to theU<u>regionalU</u> health department by fax or email before noon on Monday for the preceding week.

Influenza death reporting

Lab confirmed influenza deaths in adults should be reported to DHEC within 7 days. Lab confirmed influenza deaths in children under age 18 should be reported within 24 hours. These include results from viral culture, PCR, rapid flu tests, DFA, IFA or autopsy results consistent with influenza. Hospitals should report deaths to their regional health department by noon on Monday for the preceding week.

Influenza hospitalizations

DHEC requires weekly submission of laboratory confirmed influenza hospitalizations. Hospitals should report these to their <u>regional</u> health department by noon on Monday for the preceding week.

For additional information about ILINet or to become an ILINet provider, contact the Acute Disease Epidemiology influenza surveillance coordinator at springcb@dhec.sc.gov.

Voluntary Networks

Influenza-Like Illness (ILINet) Sentinel Providers Network

ILINet focuses on the number of patients presenting with influenza-like symptoms in the absence of another known cause. ILI is defined as fever (temperature of U \geq U100°F) plus a cough and/or a sore throat in the absence of another known cause. Providers submit weekly reports to the CDC of the total number of patients seen in a week and the subset number of those patients with ILI symptoms by age group.

South Carolina Disease Alerting, Reporting & Tracking System (SC-DARTS)

SC-DARTS is a collaborative network of syndromic surveillance systems within South Carolina. Currently our network contains the following data sources: SC Hospital Emergency Department (ED) chief-complaint data, Poison Control Center call data, Over-the-Counter (OTC) pharmaceutical sales surveillance, and CDC's BioSense Biosurveillance system. The hospital ED syndromic surveillance system classifies ED chief complaint data into appropriate syndrome categories (ex: Respiratory, GI, Fever, etc.). These syndrome categories are then analyzed using the cumulative sum (CUSUM) methodology to detect any significant increases. Syndromic reports are distributed back to the hospital on a daily basis.

To join the SC-DARTS system or for more information, please contact: Alecia Alianell at 803-898-0269 or alianeat@dhec.sc.gov.