Summary of ILI Activity, Positive Confirmatory Tests, and Influenza Associated Hospitalizations and Deaths Compared to Previous Week and Season

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<tbody>
<tr>
<td>Number of positive cultures, RT-PCRs, DFAs, and IFAs</td>
<td>0</td>
<td>1</td>
<td>▼</td>
<td>1,194</td>
<td>768</td>
<td>▲ 55.5%</td>
</tr>
<tr>
<td>Number of positive rapid tests</td>
<td>58</td>
<td>58</td>
<td>--</td>
<td>73,702</td>
<td>64,147</td>
<td>▲ 14.9%</td>
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<td>Percent of ILI visits reported by ILINet providers</td>
<td>0.41%</td>
<td>0.70%</td>
<td>▼ 0.29%</td>
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<tr>
<td>Number of lab confirmed flu hospitalizations</td>
<td>3</td>
<td>4</td>
<td>▼ 25.0%</td>
<td>3,376</td>
<td>1,950</td>
<td>▲ 73.1%</td>
</tr>
<tr>
<td>Number of lab confirmed flu deaths</td>
<td>0</td>
<td>1</td>
<td>▼</td>
<td>157</td>
<td>78</td>
<td>▲ 101%</td>
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I. Confirmatory testing

Positive confirmatory influenza test results*
Cumulative (09/28/14 – 9/19/15)

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<tr>
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<th>BOL and reference labs</th>
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<tbody>
<tr>
<td>Number of positive confirmatory tests</td>
<td>1,196</td>
</tr>
<tr>
<td>Influenza A unsubtyped</td>
<td>576 (48.2%)</td>
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<tr>
<td>Influenza A H1N1</td>
<td>5 (0.42%)</td>
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<tr>
<td>Influenza A H3N2</td>
<td>421 (35.2%)</td>
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<tr>
<td>Influenza B</td>
<td>192 (16.1%)</td>
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<tr>
<td>Unk/Other</td>
<td>2 (0.17%)</td>
</tr>
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</table>

Includes culture, RT-PCR, DFA, and IFA

Positive Confirmatory Tests (Culture, RT-PCR, DFA, IFA) by MMWR Week
2014-2015 Season

*Includes culture, PCR, DFA, IFA

Map of all Laboratory Confirmed Cases* by County
Cumulative 09/28/14 – 9/19/15

*Includes all laboratory tests (rapid antigen, culture, PCR, IFA, DFA.)
II. Positive Rapid Antigen Tests

Positive Rapid Tests by MMWR Week
2013-14 vs 2014-15

Positive Rapid Tests by Type
2013-14 vs 2014-15
September 28, 2014 - September 12, 2015

During the most recent MMWR week, 0.41%* of patient visits to SC ILINet providers were due to ILI. This is below the state baseline (2.05%). This ILI percentage compares to 1.12% this time last year. Reports were received from providers in 7 counties representing 3 of the 4 regions.

* ILI percentage is dependent upon the number of reporting providers and can be greatly influenced by a single provider with high numbers of ILI.
IV. Influenza hospitalizations and deaths

Reported Cases of Laboratory Confirmed Influenza
Hospitalizations and Deaths by MMWR week
September 28, 2014 - September 19, 2015

Laboratory Confirmed Influenza Case Rate/100,000*
Hospitalizations (n=3,373) and Deaths (n=157) by age group
September 28, 2014 - September 19, 2015

*Based on 2010 Census data
Excludes 2 hospitalizations with unknown age

V. 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 3 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 the regional health department by fax or email before noon on Monday for the preceding week.

Influenza deaths
All (pediatric and adult) lab confirmed influenza deaths should be reported to DHEC within 24 hours. These include deaths confirmed by culture, PCR, rapid test, DFA, IFA or autopsy results consistent with influenza.

Influenza hospitalizations
DHEC requires weekly submission of laboratory confirmed influenza hospitalizations. Hospitals should report these to their regional 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 ≥100°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.
Activity level: Indicator of the geographic spread of influenza activity which is reported to CDC each week.

- **No activity:** No increase in ILI activity and no laboratory-confirmed influenza cases.
- **Sporadic:** No increase in ILI activity and isolated laboratory-confirmed influenza cases
- **Local:** Increased ILI or 2 or more institutional outbreaks in one region and laboratory-confirmed influenza cases within the past 3 weeks in the region with increased ILI or outbreaks
- **Regional:** Increased ILI or institutional outbreaks in 2-3 regions and laboratory-confirmed influenza cases within the past 3 weeks in the regions with increased ILI or institutional outbreaks
- **Widespread:** Increased ILI and/or institutional outbreaks in at least 4 regions and laboratory confirmed influenza in the state within the past 3 weeks

Confirmatory testing: Influenza testing which is considered to be confirmatory, such as a viral culture or PCR

Influenza-like illness (ILI): Fever (temperature of 100°F [37.8°C] or greater) and cough and/or sore throat

MMWR week: Term for influenza surveillance week. Each week begins on Sunday and ends on Monday. The influenza season begins with MMWR week 40 and ends with MMWR week 39. The 2013-14 influenza season began on September 29, 2013 and will end on September 27, 2014.

Laboratory-confirmation: Positive influenza resulting from one of the following methods:

- DFA
- IFA
- Rapid influenza antigen test
- RT-PCR
- Viral culture