United States of America – Influenza and Other Respiratory Virus (ORV) Surveillance  
(updated July 2014)

Sociodemographic indicators (2013)  

- Total population: 320,051,000
- Life expectancy (years)
  - Men: 76.5
  - Women: 81.3
  - Total: 78.9

General mortality rate per 1,000 inhabitants
- All causes: 5.5
- Communicable diseases: 0.26

Hospital beds per 1,000 inhabitants: 2.9

Public health expenditure (% of GDP): ...

Surveillance Systems

<table>
<thead>
<tr>
<th>Surveillance Systems</th>
<th>Scope</th>
<th>Sample Collection</th>
<th>Data Collection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virologic Surveillance</td>
<td>Sentinel</td>
<td>Yes</td>
<td>Nominal</td>
</tr>
<tr>
<td>Outpatient Illness Surveillance (ILI Surveillance)</td>
<td>Sentinel</td>
<td>Yes</td>
<td>Nominal</td>
</tr>
<tr>
<td>Mortality Surveillance</td>
<td>Sentinel</td>
<td>No</td>
<td>Aggregate</td>
</tr>
<tr>
<td>Hospitalization Surveillance</td>
<td>Sentinel</td>
<td>Yes</td>
<td>Nominal</td>
</tr>
<tr>
<td>Summary of the Geographic Spread of Influenza</td>
<td>National</td>
<td>No</td>
<td>Aggregate</td>
</tr>
</tbody>
</table>

Sentinel Sites

ILI Centers (N=2,900)
(not shown)
Includes health centers in all 50 states, Puerto Rico, and the District of Colombia.

National Influenza Centers (N=4)
1 – Centers for Disease Control and Prevention (Atlanta, GA)
2 – School of Public Health, (Ann Arbor, MI)
3 – Viral and Rickettsial Disease Laboratory (Richmond, CA)
4 – Virology Diagnostic Services Laboratory of Zoonotic Diseases and Virology Proficiency Testing (Slingerlands, NY)
- Techniques realized:
  - IFI, RT-PCR, viral isolation

Information Systems

Integration of epidemiological/virological information: Partial
Integration of different surveillance information systems: Partial
Allows for monitoring of the sentinel site system: Yes
Provides influenza activity indicators: Yes
Provides interactive online dashboard: Yes

Reporting

- The data bases generate bulletins/reports automatically: No
- A national bulletin/report is published weekly: Yes
- Includes SARI/ILI sentinel surveillance data: Yes
- Data reported to PAHO/WHO system FluID: No
- Data reported to PAHO/WHO system FluNet: Yes

Unless otherwise specified, all data was collected by the PAHO/WHO Influenza Surveillance Team from one or more of the following sources: PAHO questionnaires completed by epidemiology or laboratory experts, influenza bulletins published/ shared by the countries, country presentations in regional influenza meetings, consultation with country influenza surveillance experts. The document was submitted to the national counterpart for revision.
SARI/ILI Sentinel Surveillance

**Hospitalized Influenza case definition:** Laboratory confirmed influenza-associated hospitalizations in children and adults

**ILI case definition:** fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat without a KNOWN cause other than influenza

### Sentinel Surveillance Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>SARI</th>
<th>ILI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAHO/WHO case definition</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Trainings per year</td>
<td>2</td>
<td>Varies by state</td>
</tr>
<tr>
<td>Selection for sampling</td>
<td>~30%</td>
<td>Varies by state</td>
</tr>
<tr>
<td>Systematic randomized sampling</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Collection of clinical-epidemiological variables</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Frequency of sample shipment to the laboratory</td>
<td>Weekly</td>
<td>Varies by state</td>
</tr>
<tr>
<td>Frequency of national data updates</td>
<td>Weekly</td>
<td>Weekly</td>
</tr>
<tr>
<td>Denominator of number of cases</td>
<td>Catchment population</td>
<td>Total visits</td>
</tr>
<tr>
<td>Use of baselines or endemic channels</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Sentinel establishments are evaluated</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Number of evaluations per year</td>
<td>1</td>
<td>Varies by state</td>
</tr>
</tbody>
</table>

### Laboratory Surveillance

- **National Influenza Center**
  - (year initiated as a NIC)
  - Atlanta (1956)
  - Ann Arbor
  - Richmond
  - Slingerlands

- **Receive samples from all surveillance systems**: No

- **Weekly average of samples in the country (2011-2013)**: 5736

- **Labs have access to epidemiological case information**: Yes

- **Sends samples to WHO Collaborating Center**: Yes

- **Detection of other respiratory viruses by PCR**: Yes

- **There is a plan for quality control in the laboratory network**: Yes

### Circulation of Influenza Viruses 2010-2014*

**Vaccines**

- **Vaccine composition**: Northern hemisphere (since 1940)
- **Vaccination time-frame**: July-April
- **Percentage of older adults (≥250 years) that received the vaccine against influenza, 2012**: 65%
- **Percentage of children (>6 months) that received the vaccine against influenza, 2012**: 52%

**Influenza Pandemic Preparedness Plan**

- **Country has a Pandemic Preparedness Plan**: Yes
- **Year last updated**: 2006
- **Year first devised**: 2005

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