

Montana Influenza Summary

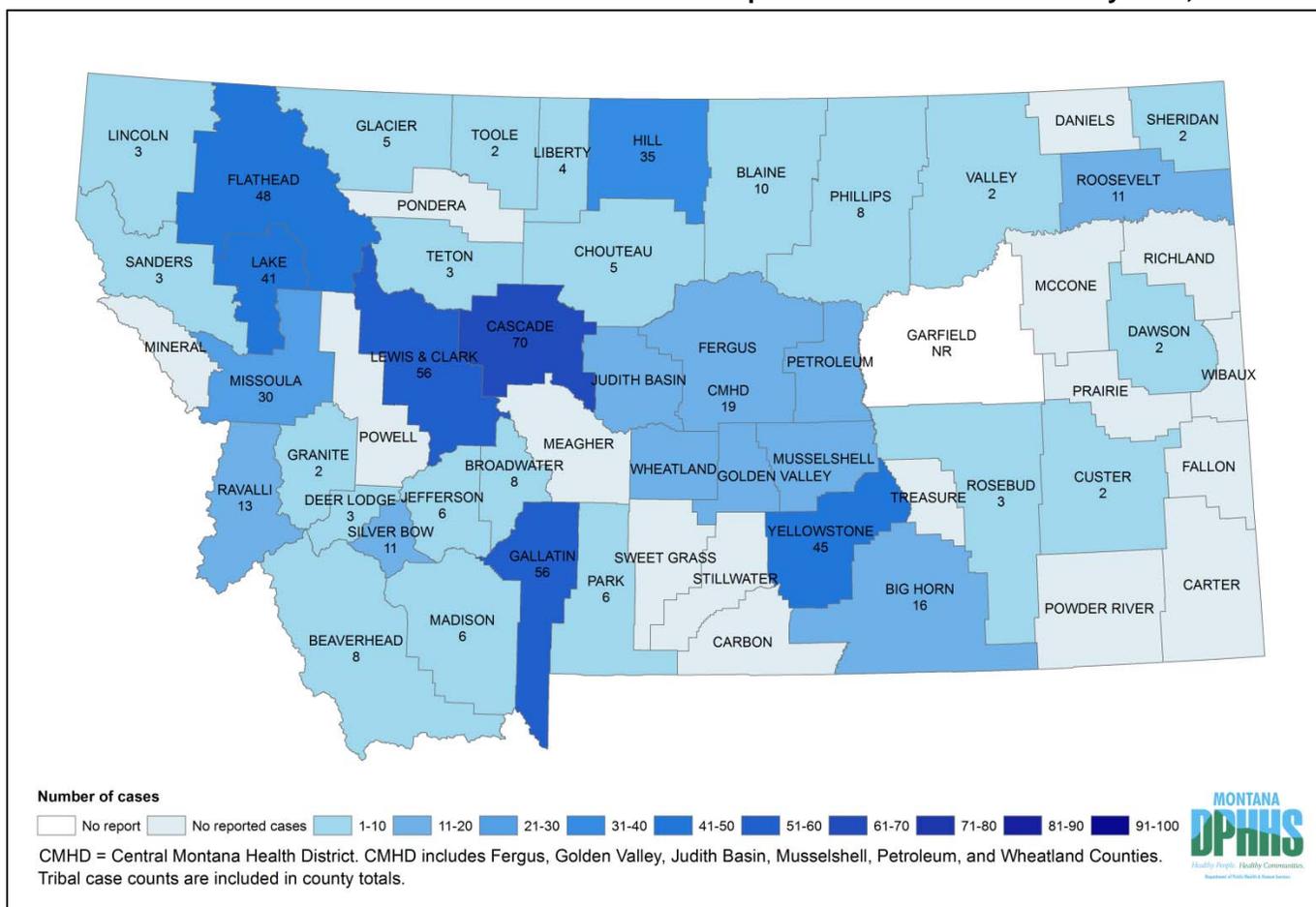
Confirmed or Suspected Influenza Cases Reported as of 1/14/2017 (MMWR Week 2)

Montana's influenza activity level for the week ending on 1/14/2017 is defined as: **WIDESPREAD**¹

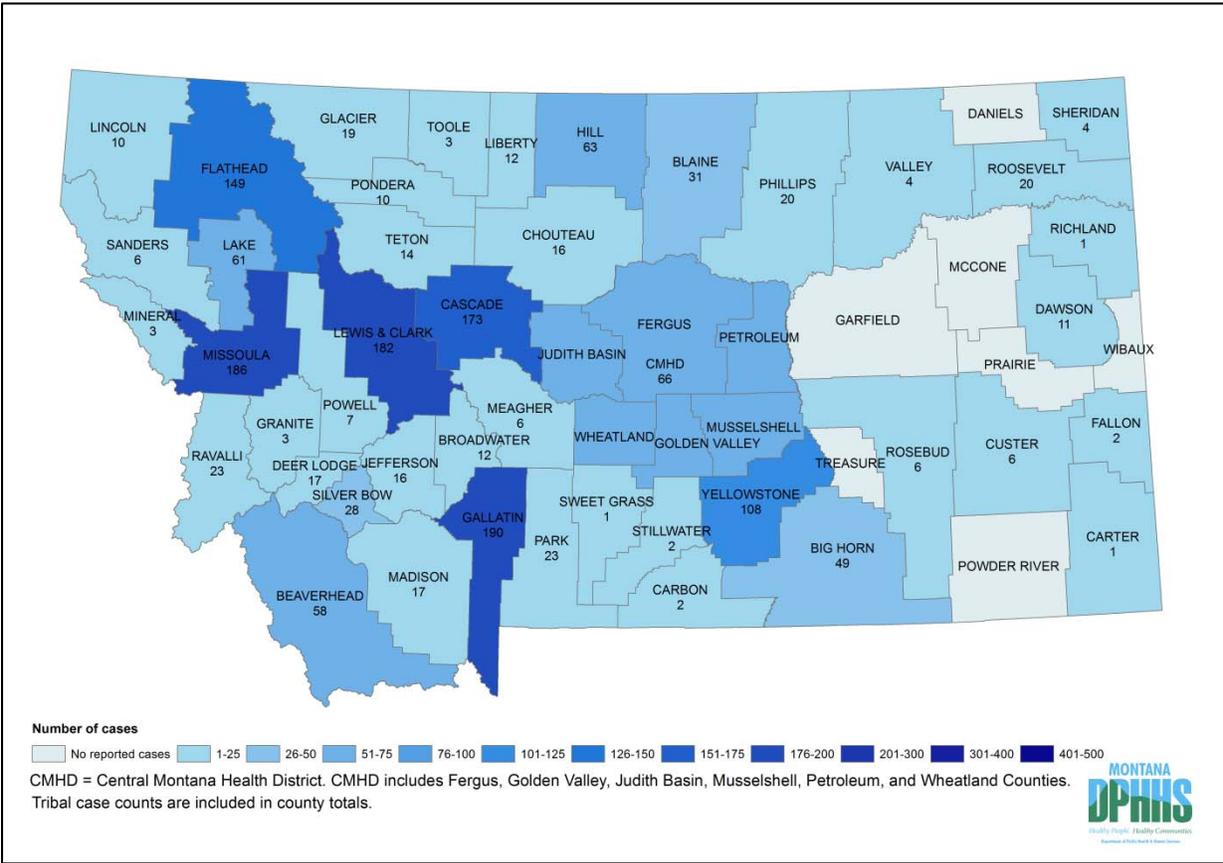
Overview: Surveillance for the 2016–2017 influenza season officially began on October 2, 2016. The Montana Department of Health and Human Services (DPHHS) provides a weekly report throughout the influenza season that coordinates data from a variety of sources to give the most complete and up to date view of influenza activity for the state of Montana. Data in this report should be considered provisional, and may change as more complete data is received.

Current Influenza Activity: Influenza activity increased during the week of January 8–14, 2017 with 544 cases and 33 hospitalizations reported across the state. Since October 2, 2016, 1641 cases and 204 hospitalizations have been reported to DPHHS. The following maps demonstrate influenza activity by case counts for the most recent reporting week, case counts for the season to date, and rates for the season to date (per 10,000 persons).

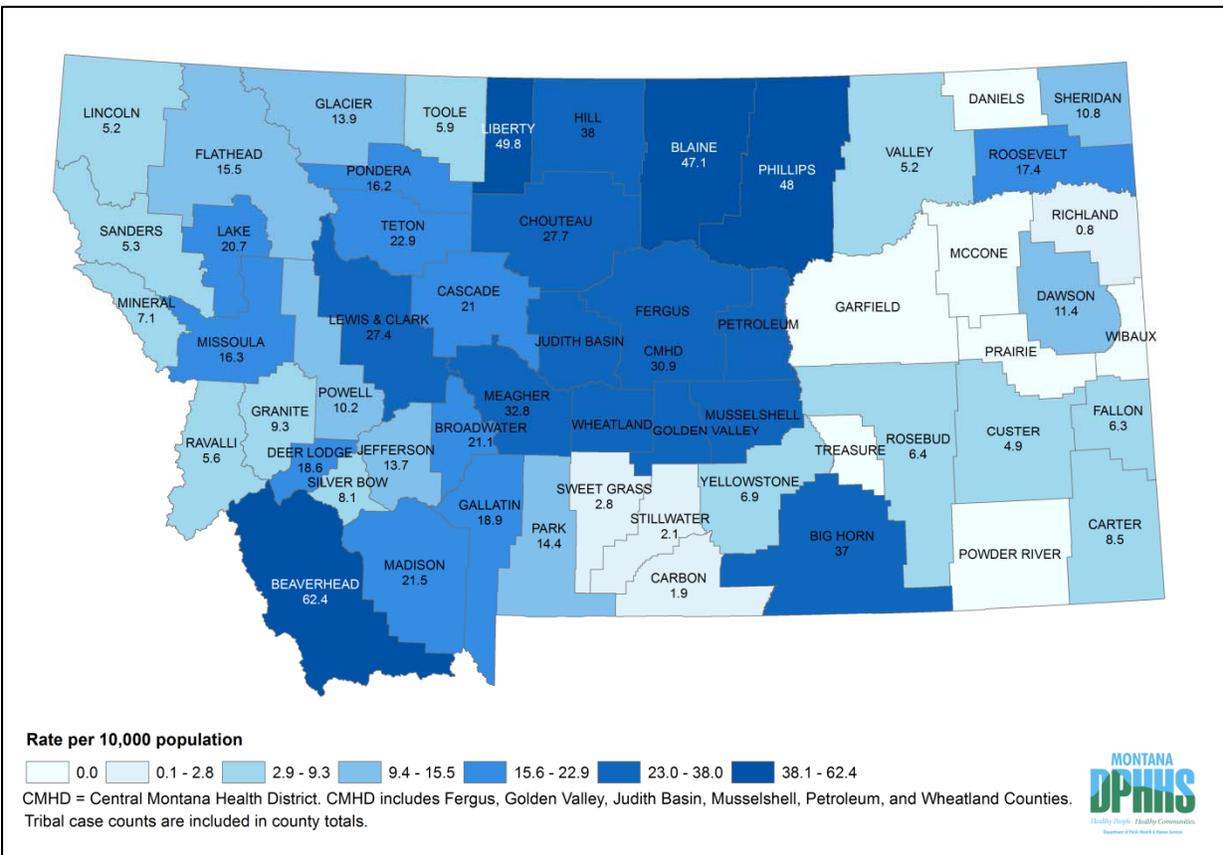
Influenza in Montana 2016–17: New confirmed cases reported for the week of January 8–14, 2017



Influenza in Montana 2016–17: Reported cases by county, season to date week ending 1/14/2017



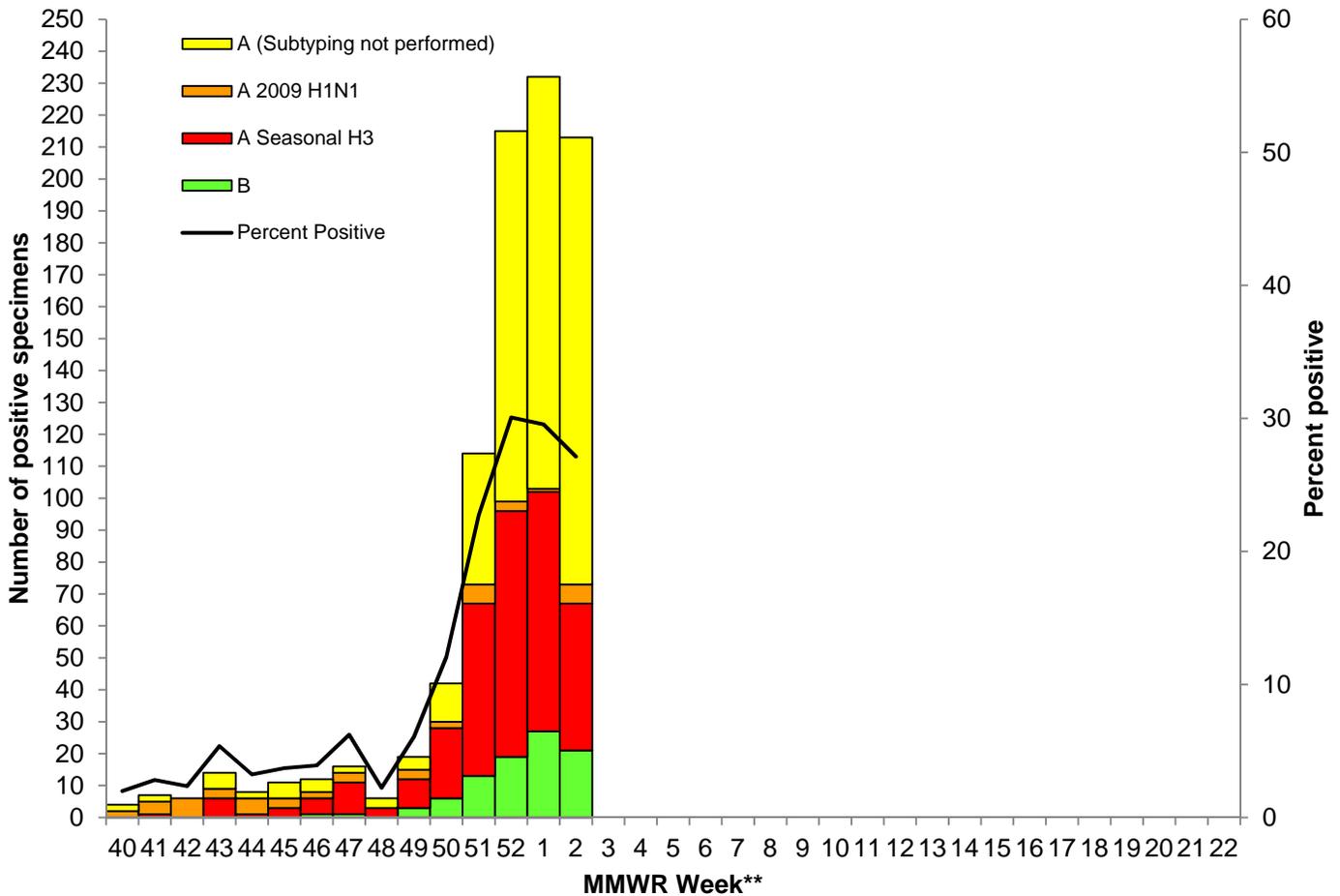
Influenza in Montana 2016–17: Rates of confirmed cases by county, season to date week ending 1/14/2017



Laboratory Surveillance: The Montana Public Health Laboratory (MTPHL) and partners report the number of specimens tested for influenza by Polymerase Chain Reaction (PCR) as well as the number of positives by influenza virus type and influenza A virus subtype. The table presented below contains data for MMWR Week 2 and the season to date.

Table 1. Influenza Types Confirmed by MTPHL and Partners		
	Week 2	Season to date
Number of specimens tested	785	5851
Number of positive specimens (%)	213(27.1)	938(16.0)
Positive specimens by type/subtype		
Influenza A	192	847
2009 H1N1	6	49
Subtyping not performed	140	467
H3	46	312
Influenza B	21	91

Influenza positive tests reported by the Montana Public Health Laboratory and Partners[†], 2016–17 Season



[†]**Partner laboratories include:** Barrett Hospital and Healthcare, Benefis Healthcare System Lab, Big Sandy Medical Center, Bighorn County Hospital, Billings Clinic Hospital, Bozeman Deaconess Hospital, Community Medical Center, Deer Lodge Medical Center, Glacier Medical Associates, Great Falls Clinic, Holy Rosary Health Care, IHS Wolf Point, KRMC, Madison Valley Medical Center, Montana Public Health Laboratory, Phillips County Hospital, Poplar Community Hospital Trinity Hospital.

^{*}**Report does not include:** Billings Clinic Hospital, Barrett Hospital, IHS Wolf Point, Phillips County Hospital, Poplar Community Hospital, and Trinity Hospital.

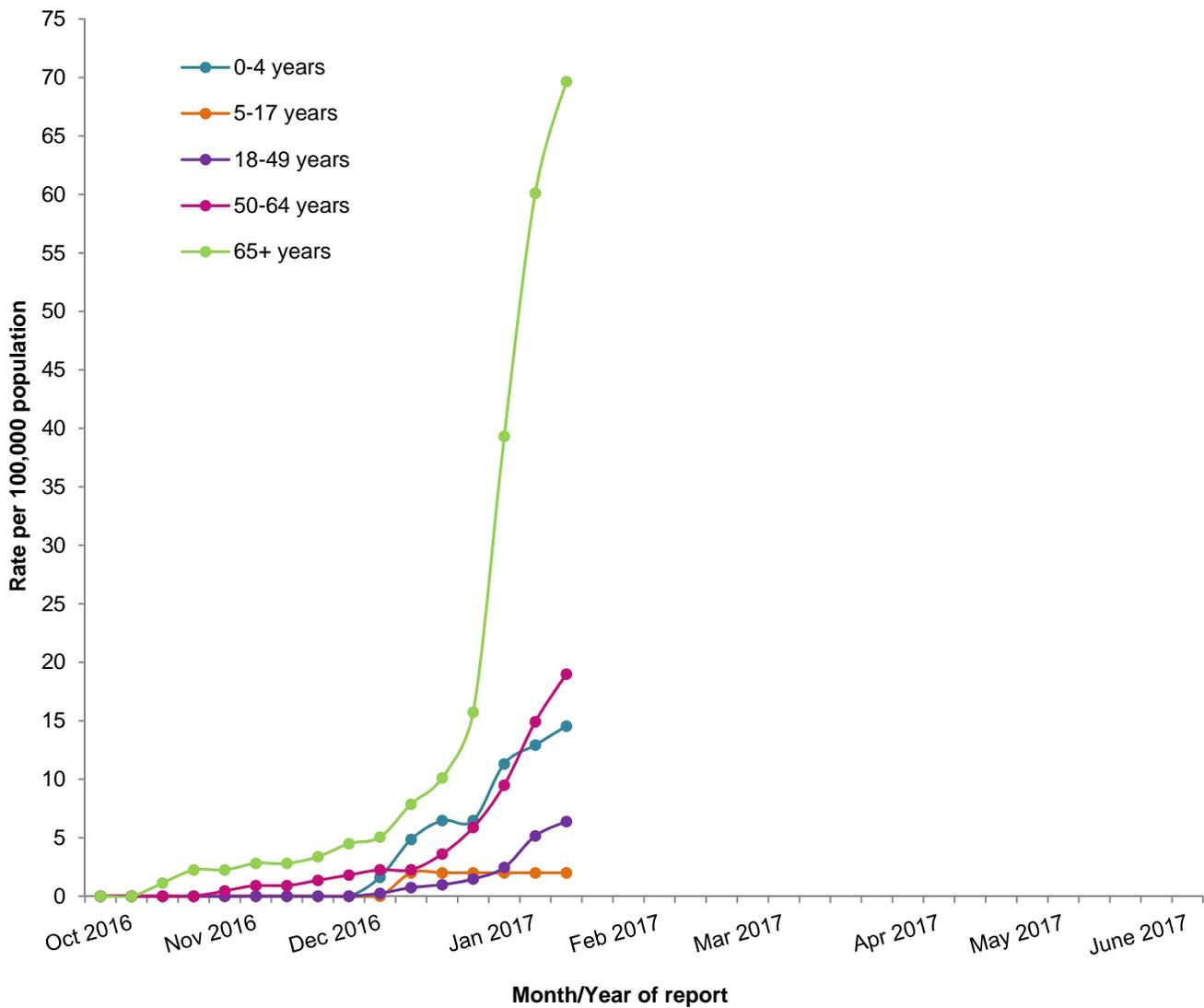
^{**}The MMWR week is the week of the epidemiologic year for which the National Notifiable Diseases Surveillance System (NNDSS) disease report is assigned by the reporting local or state health department for the purposes of MMWR disease incidence reporting and publishing. Values for MMWR week range from 1 to 53, although most years consist of 52 weeks.

Influenza Hospitalizations: Influenza cases, including hospitalizations and deaths, are reportable to local public health in Montana. As of January 14, 2017, 204 influenza-associated hospitalizations have been reported. This is a rate of 19.8 per 100,000 population.

Season to date, there have been no deaths attributed to influenza. Table 2 presents influenza hospitalizations and deaths current as of the week ending January 14, 2017.

Table 2. Influenza Hospitalizations and Deaths — Montana, Week Ending 1/14/17				
Hospitalizations		Deaths (Season to Date)		
Current Week	Season to Date	Pediatric	Adult <65 years	Adult >65 years
33	204	0	0	0

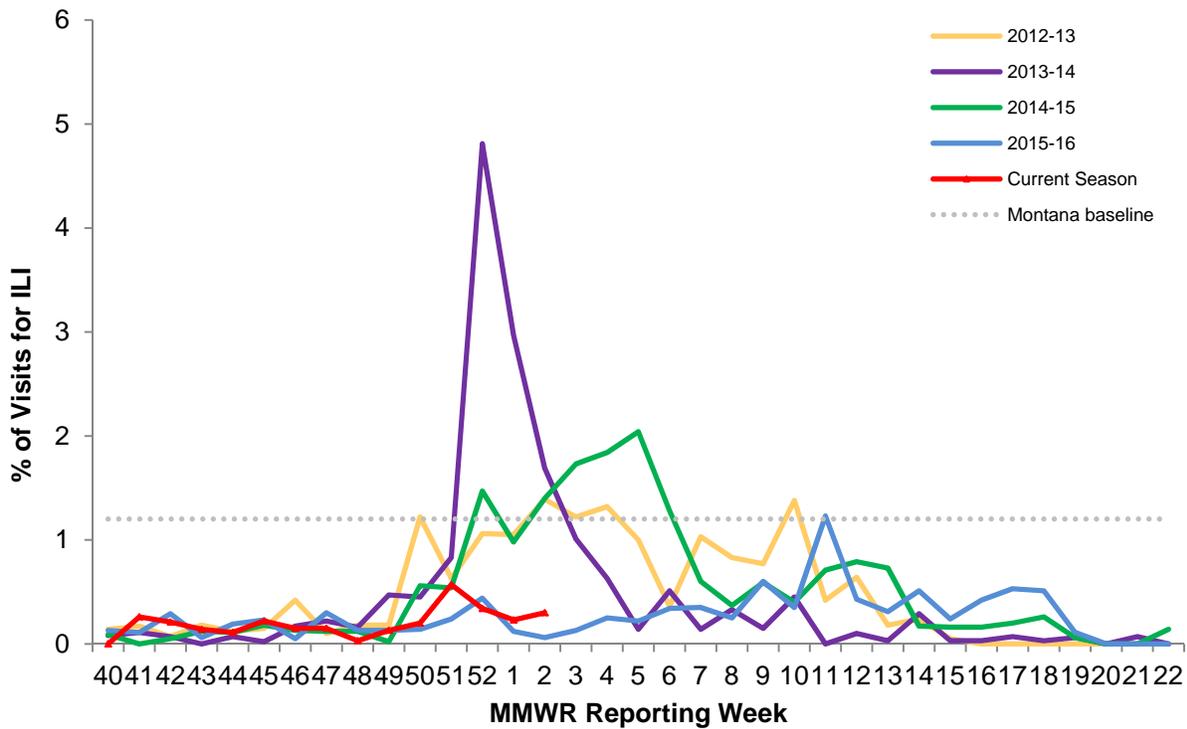
Cumulative influenza hospitalization rates by age group — Montana, 2016–17 season*



*Reported by hospital admission date.

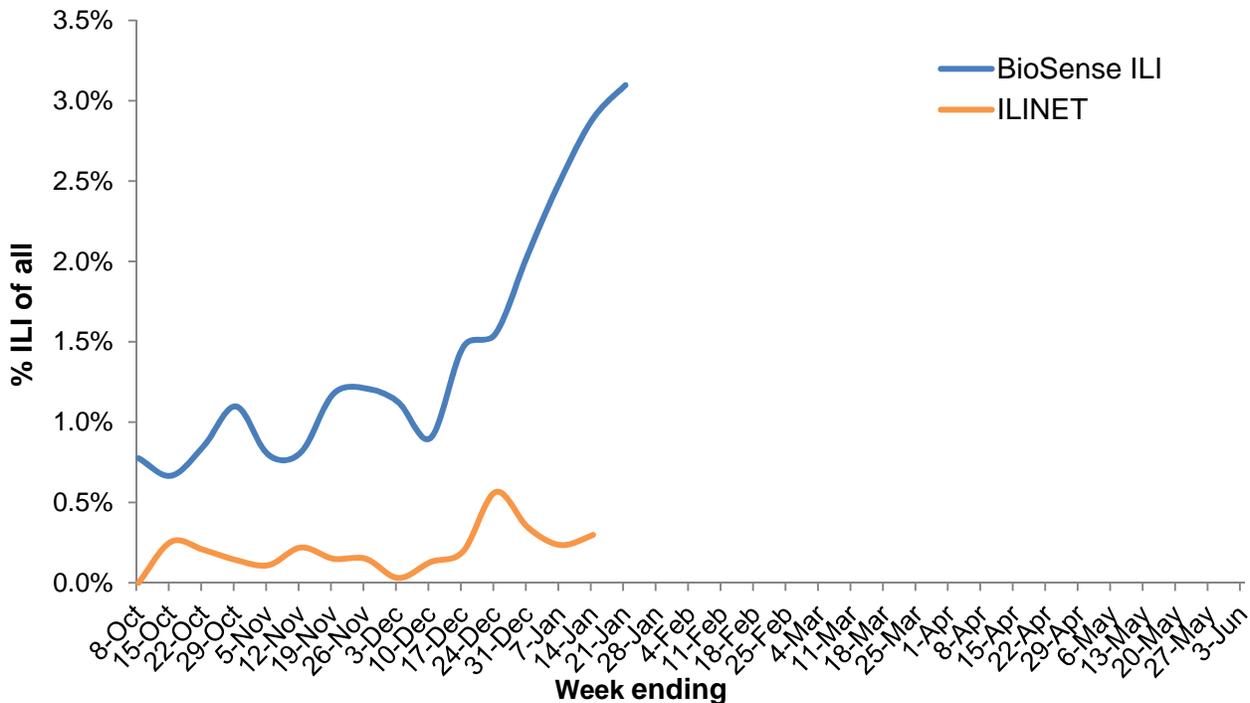
Influenza-like Illness (ILI): The U.S. Outpatient ILI Surveillance Network (ILINet) is a national system that conducts surveillance for Influenza-like illness (ILI) in outpatient healthcare facilities. ILI is defined as a fever (temperature of 100° F or greater) and cough and/or sore throat. Currently, 9 facilities participate in ILINet in Montana. For the week ending 1/14/2017, 0.30% of patient visits were due to ILI in Montana compared to 3.2% in the United States.

Percentage of Influenza-Like Illness (ILI) reported by sentinel providers — Montana, Selected seasons



Syndromic Surveillance vs. ILI: BioSense is the syndromic surveillance system in place for Montana that captures approximately 80% of emergency room (ER) visits across the state. ER visits associated with influenza like illness are compared below with the ILINet data for the 2016–17 season in Montana.

Comparison of ILINet and BioSense reports of Influenza-Like Illness (ILI) — Montana, 2016–17



¹**Influenza Activity:** State health departments report the estimated level of geographic spread of influenza activity in their states each week through the **State and Territorial Epidemiologists Reports**. States report geographic spread of influenza activity as no activity, sporadic, local, regional, or widespread. These levels are defined as follows:

- **No Activity:** No laboratory-confirmed cases of influenza and no reported increase in the number of cases of ILI.
- **Sporadic:** Small numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.
- **Local:** Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.
- **Regional:** Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions.
- **Widespread:** Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state.

For additional information on influenza activity in Montana, please contact your local health department or the Department of Public Health and Human Services' Communicable Disease Epidemiology Section at (406) 444-0273 or visit <http://www.dphhs.mt.gov/publichealth/cdepi/diseases/influenza.aspx>.