



Michigan Flu Focus

Weekly Influenza Surveillance Report



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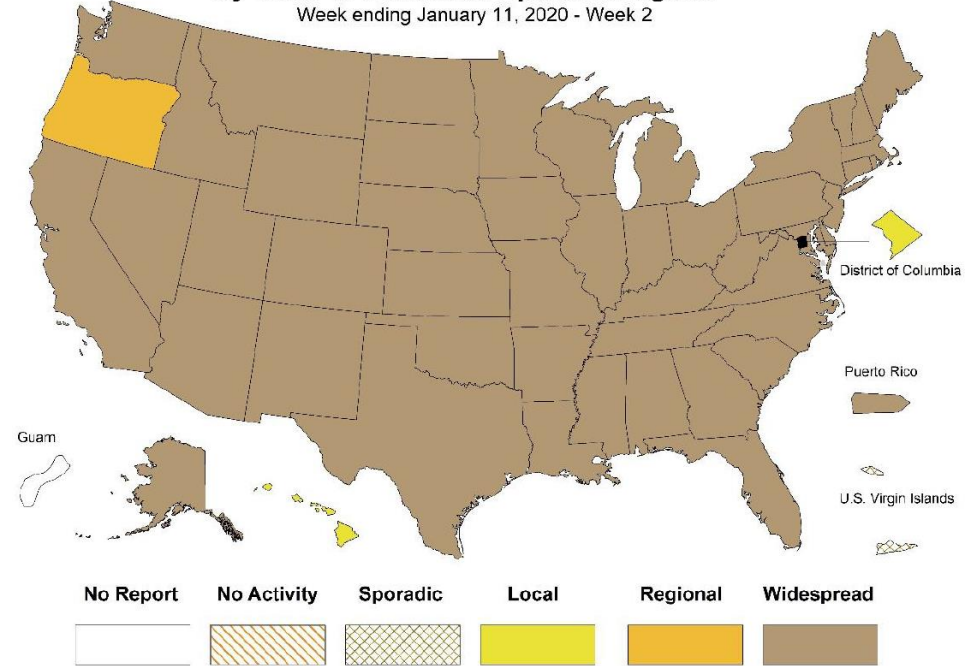
Week Ending January 11, 2020 | WEEK 2

| Michigan Influenza Activity |
|-----------------------------|
| No Activity |
| Sporadic |
| Local |
| Regional |
| <u>Widespread</u> |

*Clicking on the current activity level will direct you to the CDC webpage defining each activity level for the geographic spread of influenza

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending January 11, 2020 - Week 2



Updates of Interest

The Michigan Department of Health and Human Services has confirmed the first two influenza-associated pediatric deaths in Michigan for Week 2 of the 2019-2020 influenza season.

As a reminder, all influenza-associated pediatric deaths are required to be reported. Please see the following link for additional guidance for influenza-associated pediatric mortality investigations:

https://www.michigan.gov/documents/mdhhs/Influenza_pediatric_mortality_investigation_603970_7.pdf

Influenza-associated Pediatric Mortality

Nationally, 39 influenza-associated pediatric deaths have been reported thus far for the 2019-2020 flu season. Two (2) pediatric influenza (B) deaths have been confirmed by MDHHS during this season.

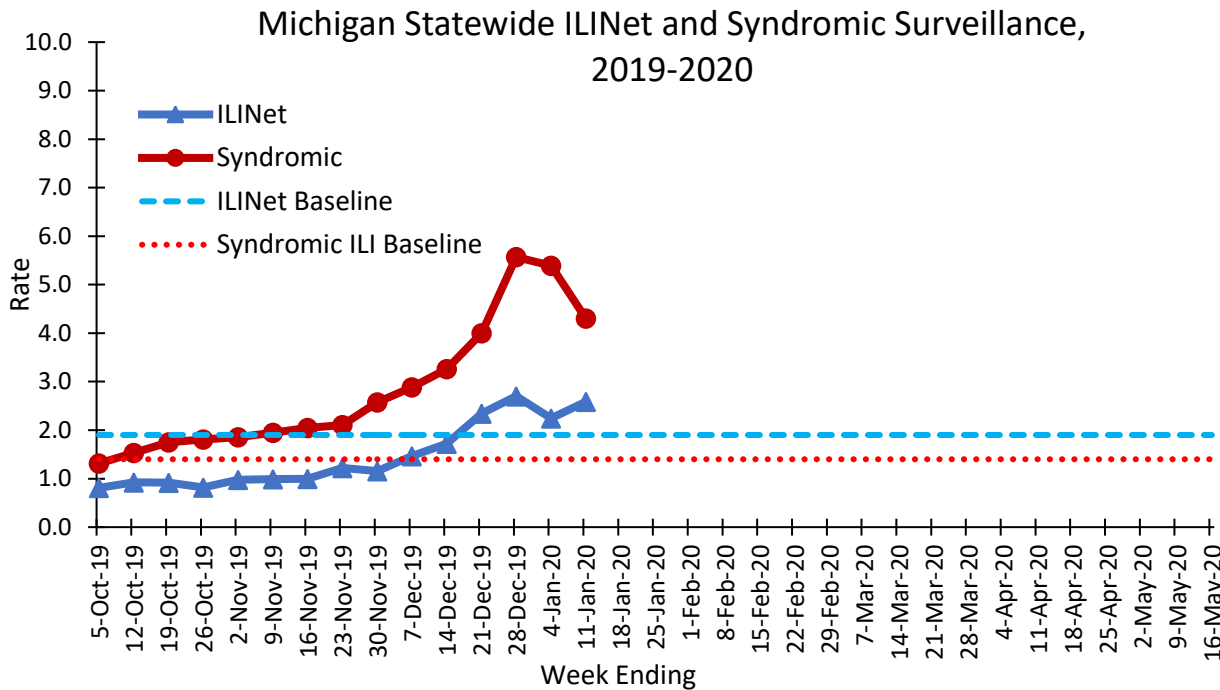
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Michigan participates in ILINet, a collaborative effort between the CDC, state and local health departments, and volunteer sentinel clinicians as part of Michigan’s influenza surveillance. ILINet provides data on the total number outpatient visits to health care providers seen for any reason and the number of those patients with influenza-like illness (ILI). For this system, ILI is defined as 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.

Number of Reports and ILI % by Region in Michigan during this time period:

| Region | C | N | SE | SW |
|---------------------------------------|-----|-----|-----|-----|
| No. of Reporters Total (34) | 12 | 6 | 11 | 5 |
| ILI % | 2.2 | 2.8 | 3.3 | 2.6 |

Data is provisional and may change as additional reports are received.



Michigan ILI Activity

2.6%
(Last week: 2.2%)

Regional Baseline*: 1.9%

A total of 386 patient visits due to ILI were reported out of 14,917 office visits during this period.

*Regional baseline is determined by calculating the mean percentage of patient visits due to ILI during non-influenza weeks for the previous three seasons and adding two standard deviations

National Surveillance

In the United States, **4.7%** of outpatient visits were due to ILI. (Last week: 5.7%)

This is **above** the national baseline of 2.4%

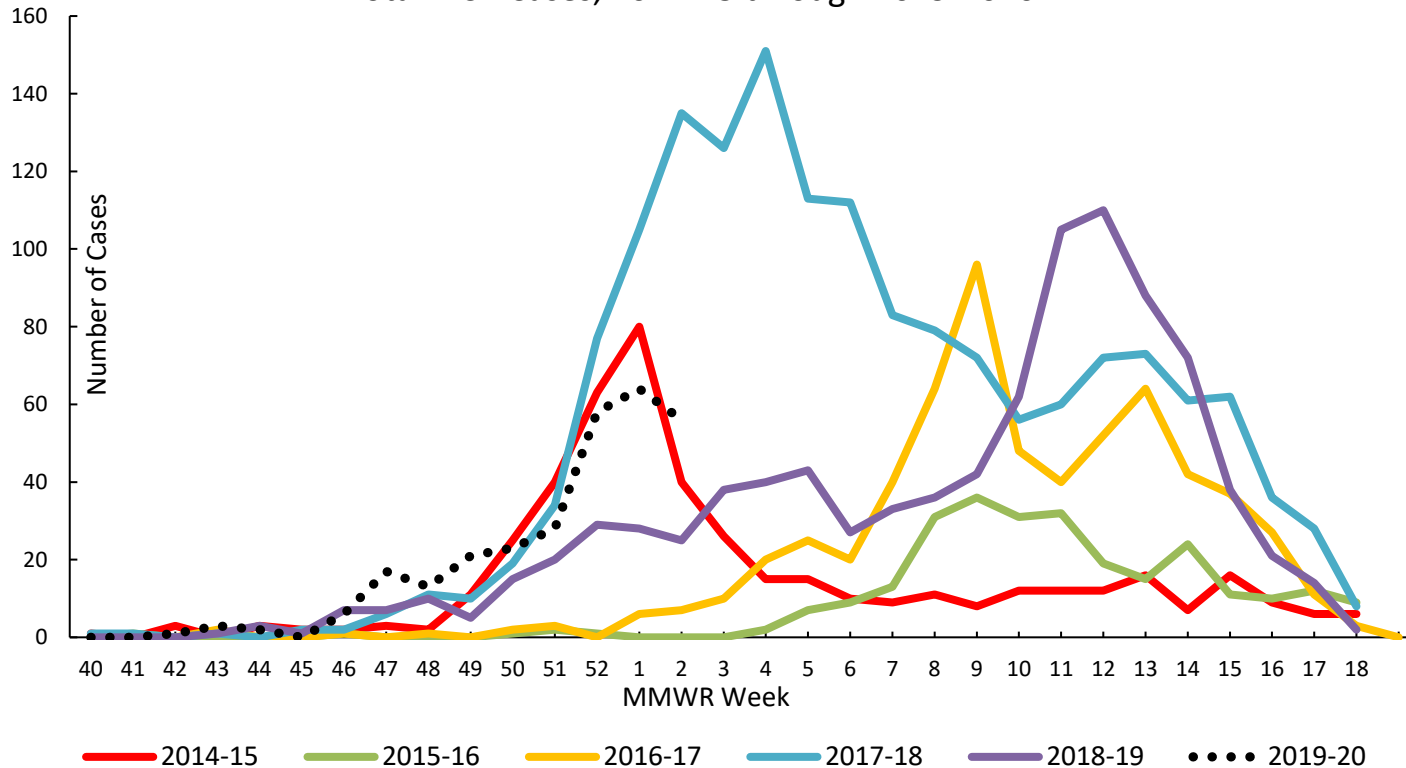
Become an ILINET provider!
Contact Shelly Doebler at DoeblerM@michigan.gov

Influenza Hospitalization Surveillance Project (IHSP)

The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1st through April 30th each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were **56** (5 pediatric, 51 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1st, **292 (64 pediatric, 228 adult)** influenza-related hospitalizations were reported in the catchment area for the 2019-2020 season.

Total IHSP Cases, 2014-15 through 2019-2020



Washtenaw County was added in the 2017-2018 season

Join the Influenza Sentinel Hospital Network (ISHN)!

What is it? ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza positive inpatients to assist MDHHS with statewide flu surveillance

How it works: As a participating hospital in the ISHN, you would complete a brief Survey Monkey every week containing:

- Number of hospitalizations with a positive influenza test by age group during that time period
- The total number of hospitalizations due to any condition during that time period (if available)

The data you provide is aggregated by region and can assist providers and public health in recognizing changes in the age or geographic distribution of flu in this population.

If your facility is interested in participating or would like more details, please contact Sue Kim (KimS2@michigan.gov)

Laboratory (Virologic) Surveillance

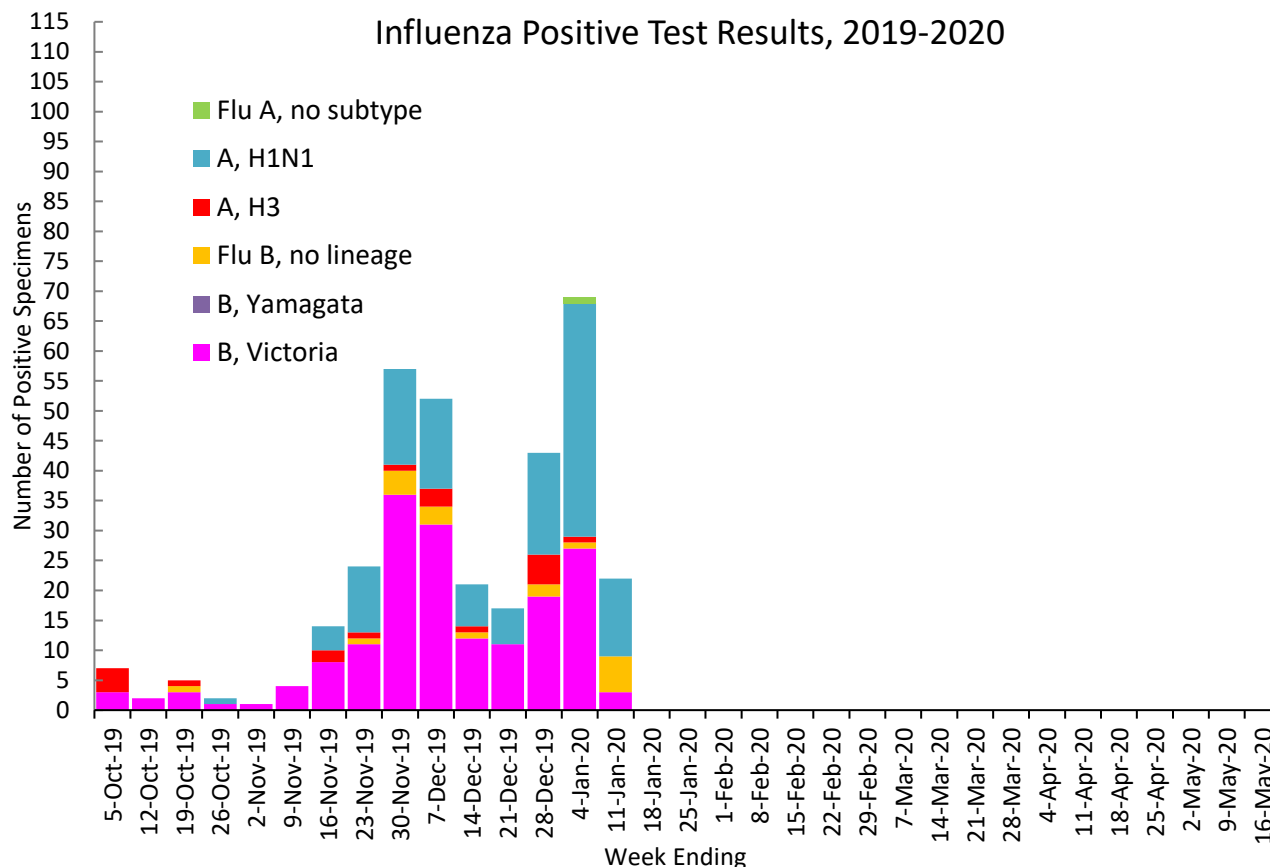
Week Ending Jan 11, 2020

There were **22** new positive influenza results (14C, 4N, 0SE, 4SW) reported by the MDHHS Bureau of Laboratories (BOL) during this time period.

of Positive Respiratory Virus Results by Region

| | C | N | SE | SW | Total |
|--------------|------------|-----------|-----------|------------|------------|
| H1N1 | 47 | 25 | 21 | 36 | 129 |
| H3N2 | 4 | 0 | 8 | 7 | 19 |
| Infl B | 57 | 6 | 51 | 77 | 191 |
| Total | 108 | 31 | 80 | 120 | 339 |

Data is provisional and may change as additional results are reported.



Note: Flu B subtyping will be reported based on MDHHS BOL testing runs and will be backtracked into this graph
 Latest MDHHS BOL Flu B lineage determination run: *January 17, 2020*

Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Thirteen (13) sentinel clinical labs (3SE, 2SW, 7C, 1N) reported during this week

| SE Region | |
|----------------|---|
| Influenza A: | moderate – high; decreasing |
| Influenza B: | moderate – high; decreasing |
| Parainfluenza: | slightly elevated; decreasing |
| RSV: | moderate – high; decreasing |
| Adenovirus: | slightly elevated |
| hMPV: | moderate |
| Central Region | |
| Influenza A: | elevated; variable |
| Influenza B: | moderate; variable |
| Parainfluenza: | low; some decreases |
| RSV: | low – moderate; variable |
| Adenovirus: | low – slightly elevated |
| hMPV: | low – slightly elevated; some decreases |
| SW Region | |
| Influenza A: | moderate; decreasing |
| Influenza B: | moderate – high |
| Parainfluenza: | sporadic – low |
| RSV: | moderate – high; decreasing |
| Adenovirus: | low |
| hMPV: | low – slightly elevated |
| North Region | |
| Influenza A: | slightly elevated |
| Influenza B: | low |
| Parainfluenza: | sporadic |
| RSV: | low – slightly elevated; some decreases |
| Adenovirus: | no activity |
| hMPV: | sporadic |

There were **4** new respiratory outbreaks (1C, 2N, 0SE, 1SW) reported to MDHHS during this time period. Respiratory outbreaks for the 2019-2020 season are listed in the table below.

of Congregate Setting Outbreaks by Region

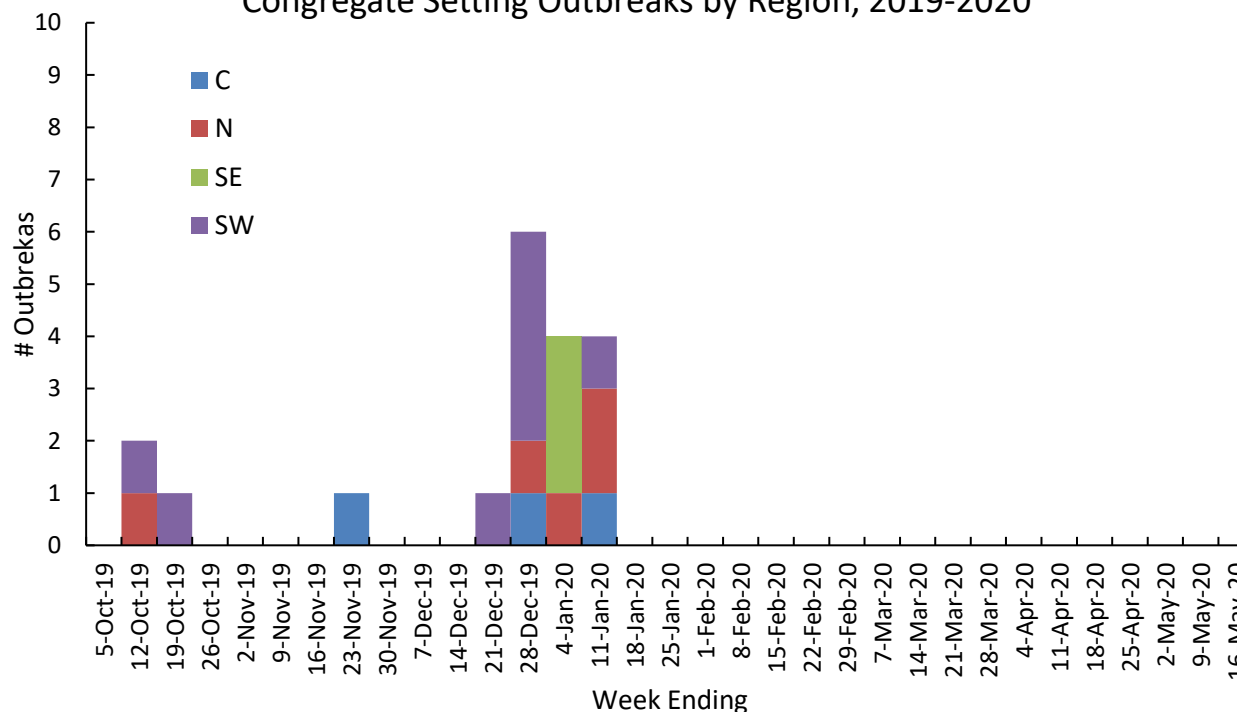
| Facility Type | C | N | SE | SW | Total |
|---|----------|----------|----------|----------|-----------|
| Schools: K-12 & College | 0 | 0 | 0 | 0 | 0 |
| Long-term Care / Assisted Living Facility | 3 | 5 | 3 | 7 | 18 |
| Healthcare Facility | 0 | 0 | 0 | 0 | 0 |
| Daycare | 0 | 0 | 0 | 0 | 0 |
| Homeless Shelter | 0 | 0 | 0 | 0 | 0 |
| Correctional Facility | 0 | 0 | 0 | 1 | 1 |
| Other | 0 | 0 | 0 | 0 | 0 |
| Total | 3 | 5 | 3 | 8 | 19 |

Did you know?

Congregate setting outbreaks of viral respiratory illnesses are required to be reported to your local health department? See:

- [Influenza Guidance for Healthcare Providers](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

Congregate Setting Outbreaks by Region, 2019-2020

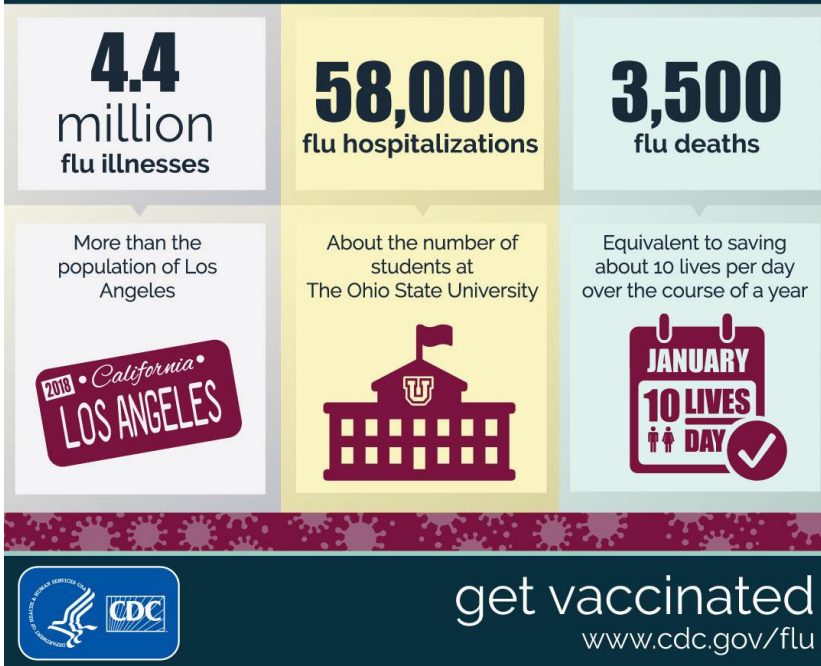


Influenza Vaccine Updates

Each year flu vaccination prevents **millions of illnesses and thousands of deaths** due to influenza. CDC [estimates the burden of flu averted](#) by vaccination each year to communicate the benefits of this vital vaccine. Below is a graphic developed by CDC to illustrate the benefits of the flu vaccine during the 2018-2019 flu season.

the benefits of flu vaccination **2018-2019**

Approximately 49% of the U.S. population chose to get a flu vaccine during the 2018-2019 flu season, and this prevented an estimated:



For more information about flu vaccine, visit www.michigan.gov/flu.

Influenza News Blast

- [CDC HAN- Elevated Flu Activity Across the U.S.](#)
- [Early Influenza B Dominance- Pediatric Illness](#)
- [Illness Risks vs. Vaccination Benefits](#)
- [Early Season Pediatric Flu Influenza B Infections- MMWR](#)
- [New Study: Antivirals Aid in Recovery of Severe Flu](#)
- [Vaccine Comparison in Inducing Immune Response](#)
- [Flu Forecasting Tool: FluSight](#)

Additional Resources

- [MDHHS Influenza Webpage](#)
- [MDHHS Bureau of Laboratories \(BOL\) Webpage and Test Request Forms](#)
- [CDC FluView Weekly Report](#)
- [NFID Flu and Chronic Health Conditions Toolkit](#)
- [CDC Healthcare Professionals Flu Toolkit](#)
- [Immunization Action Coalition: Ask the Experts- Flu](#)
- [MDHHS- Influenza Vaccine F.A.Q.](#)

View Michigan Flu Focus Report archives [here](#)

Influenza Burden Estimates

The Centers for Disease Control and Prevention (CDC) have once again begun to release [preliminary burden estimates](#) for the 2019-2020 influenza season.

Between October 1, 2019 through January 11, 2020 it is estimated that there have been:

- **13 million – 18 million flu illnesses**
- **5.9 million – 8.5 million flu medical visits**
- **120,000 – 210,000 flu hospitalizations**
- **6,600 – 17,000 flu deaths**

Additionally, there have been 39 confirmed flu-associated pediatric deaths for the 2019-2020 flu season.

Influenza activity is [greatly increasing around the country](#) and flu-like illness has been above or at the national baseline for ongoing weeks.

Remember: It is not too late to get vaccinated! Get your flu shot!

MDHHS Contributors

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