



Flu Vaccine: For Everyone, Every Year

For this Influenza Season, the Michigan Department of Health and Human Services (MDHHS) Bureau of Laboratories will be performing testing for all flu strains which include 2009 A H1, seasonal flu A types and Flu B. In addition, MDHHS continues to highly encourage confirmatory influenza testing for cases of public health interest (ICU hospitalizations, severely ill pregnant women, patients with unusual and severe presentations, deaths) and for congregate setting outbreak/cluster investigations. MDHHS is reminding laboratories to please submit all rapid positive flu for confirmation.

Please note the approved specimen types for Flu PCR analysis have been expanded to include all of the following:

- Upper respiratory tract specimens such as nasopharyngeal swabs (NP), nasal swabs (NS), throat swabs (TS), dual NP/TS swabs, nasal washes (NW), and nasal aspirates (NA)
- *Lower respiratory tract specimens such as bronchoalveolar lavage (BAL), bronchial washes (BW), tracheal aspirates (TA), sputum, lung tissue, and viral culture*

For the most current updates, see the latest MIFluFocus report

(http://www.michigan.gov/documents/MIFluFocus_1_5_06_146893_7.pdf). For the latest

information on the current influenza season, see the MDHHS Influenza Page

(<http://www.michigan.gov/flu>).

2018-2019 Influenza Season Report

MDHHS Laboratory Data

The data shown here are the results obtained by the MDHHS Virology Laboratory from specimens for targeted public health testing plus surveillance testing through the Michigan Sentinel Physician and Sentinel Laboratory Programs. The Sentinel Physician Program consists of medical provider sites from a variety of geographic locations throughout Michigan enrolled in the sentinel surveillance program. These providers represent private practice for adult and pediatric patients, as well as urgent and emergency care facilities, nursing homes and university health services. Michigan is now conducting routine influenza surveillance year round. Thus, MDHHS requests submission of two to three specimens for influenza A and B viral culture four times during the year: early influenza season, when influenza virus is beginning to circulate; middle season, during the peak of influenza activity; late season, as influenza activity diminishes; and in the summer months. Participation in this program is voluntary.

The influenza season runs from October through the end of September each year.

| Time | Inf B | | | | | 2009 A, H1 | | | | | Seasonal A, H3 | | | | | A, Unsubtypable | LAIV |
|----------------|-------|---|----------------|----|-----|------------|---|----|-----------------|-----|----------------|---|-----------------|-----------------|-----|--------------------|------|
| | C | N | SE | SW | Tot | C | N | SE | SW | Tot | C | N | SE | SW | Tot | Tot | Tot |
| September 2019 | 0 | 0 | 6 | 1 | 7 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 12 | 5 | 17 | 0 | 0 |
| August 2019 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| July 2019 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | 0 | 3 | 5 | 11 | 0 | 0 |
| June 2019 | 5 | 0 | 3 | 0 | 8 | 3 | 0 | 3 | 3 | 9 | 1 | 0 | 1 | 1 | 3 | 0 | 0 |
| May 2019 | 4 | 0 | 1 | 6 | 11 | 6 | 1 | 0 | 1 | 8 | 8 | 2 | 1 | 6 | 17 | 0 | 0 |
| April 2019 | 0 | 1 | 1 ¹ | 7 | 9 | 37 | 0 | 7 | 34 ² | 78 | 74 | 0 | 12 ¹ | 33 ² | 119 | 4 | 0 |
| March 2019 | 0 | 9 | 0 | 2 | 11 | 49 | 2 | 5 | 30 | 86 | 41 | 1 | 5 | 54 | 101 | 0 | 0 |
| February 2019 | 1 | 1 | 2 | 0 | 4 | 33 | 7 | 12 | 20 | 72 | 16 | 8 | 3 | 22 | 49 | 0 | 0 |
| January 2019 | 1 | 0 | 4 | 0 | 5 | 46 | 7 | 11 | 43 | 107 | 16 | 0 | 3 | 3 | 22 | 0 | 0 |
| December 2018 | 0 | 0 | 4 | 0 | 4 | 24 | 6 | 12 | 12 | 54 | 2 | 2 | 1 | 2 | 7 | 0 | 0 |
| November 2018 | 0 | 0 | 0 | 1 | 1 | 10 | 1 | 3 | 9 | 23 | 1 | 1 | 1 | 0 | 3 | 1 | 0 |
| October 2018 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 7 | 1 | 14 | 2 | 0 | 0 | 3 | 5 | 0 | 0 |

¹ One specimen was positive for both Influenza A H3 and Influenza B

² Two specimens were positive for both Influenza A H1 and Influenza A H3

2018-2019 Guidance Documents

2018-2019 Influenza Test Algorithm (/documents/mdhhs/Influenza_algorithm17_18_603965_7.pdf) - updated 10/03/2018

2018-2019 Antiviral Resistance Information

(/documents/mdhhs/Influenza_antiviral_resistance_testing_603967_7.pdf) - updated 10/03/2018

2018-2019 Influenza Guidance for Laboratories

(/documents/mdhhs/Influenza_GuidanceForLabs_2015-2016_502126_7.pdf) - updated 10/03/2018

2018-2019 Influenza Guidance for Local Health Departments

(/documents/mdhhs/2015_Influenza_guidance_LHD_final_502572_7.pdf) - updated 10/03/2018

2018-2019 Influenza Guidance for Healthcare Providers

(/documents/mdch/Influenza_Guidance_for_Healthcare_Providers_2015-2016_503396_7.pdf) -

updated 10/03/2018

2018-2019 Influenza-Related Pediatric Mortality Investigation and Reporting

(/documents/mdhhs/Influenza_pediatric_mortality_investigation_603970_7.pdf) - updated 10/03/2018

2018-2019 Influenza Results Interpretation Table

(/documents/mdhhs/Flu_Result_Interpretation_Table_2017_002_603974_7.pdf) - updated 10/03/2018

2018-2019 Northern Hemisphere Seasonal Influenza Vaccine Components

A/Michigan/45/2015 (H1N1)pdm09-like virus

A/Singapore/INFIMH-16-0019/2016 (H3N2)-like virus

B/Colorado/06/2017-like virus (Victoria lineage)

Quadrivalent vaccines will also contain: B/Phuket/3073/2013-like virus (Yamagata lineage)

Antiviral Resistance Testing

2018-2019 Antiviral Resistance Information

(/documents/mdhhs/Influenza_antiviral_resistance_testing_603967_7.pdf) - updated 10/03/2018

Test Request Form

MDHHS Test Request Form (http://www.michigan.gov/documents/DCH-0583TEST_REQUEST_7587_7.pdf) - 05/02/2016

Quick Guide for Filling Out the MDHHS Test Request Form

(http://www.michigan.gov/documents/mdch/Quick_Guide_to_MDCH_Flu_Test_Req_291419_7.pdf) -

updated 10/23/2013

Specimen Collection and Shipping

Approved specimen types for influenza testing at the MDHHS BOL:

- Upper respiratory tract specimens such as nasopharyngeal swabs (NP), nasal swabs (NS), throat swabs (TS), dual NP/TS swabs, nasal washes (NW), and nasal aspirates (NA)
- Lower respiratory tract specimens such as bronchoalveolar lavage (BAL), bronchial washes (BW), tracheal aspirates (TA), sputum (PCR only), lung tissue, and viral culture

Quick Guide for Packaging and Shipping Influenza Specimens to BOL

(http://www.michigan.gov/documents/mdch/Quick_Guide_to_Transport_Flu_FINAL4_292092_7.pdf) -

updated 9/15/2009

Quick Guide for Making Influenza Specimen Collection Kits

(http://www.michigan.gov/documents/mdch/Quick_Guide_Collectn_kits_v4_290196_7.pdf) - updated

8/26/2009

MDHHS BOL Flu Collection Guide

(http://www.michigan.gov/documents/mdch/Update_6_277378_7.pdf) - updated 10/17/2013

Biological Substance, Category B Shipping Label - DCH-0800

(http://www.michigan.gov/documents/mdch/DCH-0800_shipping_label2_304273_7.pdf) - updated

12/21/2009

CDC Influenza Advisories

- CDC Health Advisory - Avian Influenza A (H5N1) virus
(/documents/mdch/CDC_Advisory_H5N1_01152014_445224_7.pdf)- added 01/22/2014
 - Avian Influenza H5N1 Testing Guidelines
(/documents/mdch/H5N1_Testing_445225_7.pdf)- added 01/22/2014

Influenza Resources

- MiFluFocus (http://www.michigan.gov/documents/MIFluFocus_1_5_06_146893_7.pdf) - A weekly influenza surveillance report that comes out Thursdays each week.
- www.michigan.gov/flu (<http://www.michigan.gov/flu>) - A State of Michigan web site dedicated to influenza (flu).

- www.michigan.gov/prepare (<http://www.michigan.gov/prepare>)- A State of Michigan web site dedicated to emergency preparedness.
- www.pandemicflu.gov (<http://www.pandemicflu.gov>)- The National Influenza Preparedness web site.
- Laboratory Biosafety Guidelines (http://www.michigan.gov/documents/Lab_Biosafety_Guidelines_150242_7.pdf)- These biosafety guidelines have been developed for Michigan laboratories handling and processing specimens associated with influenza.
- To expedite receipt of laboratory results, we urge all submitters to register for fax transmittal of reports. Fax agencies receive their reports the day testing is completed. This is especially important for those submitting specimens for H5 PCR testing. Non-fax agencies receive reports via the U.S. Post Office. This method will delay your report by several days.
Registration information
(/documents/mdch/Auto_Fax_Letter_on_SnyderHaveman_401871_7.pdf).

National influenza surveillance summary information:

- CDC Weekly Influenza Surveillance page. (<http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>)
- The CDC Influenza page. (<http://www.cdc.gov/flu/>)
- The World Health Organization (<http://www.who.int/en/>)

Past Influenza Season Data

Influenza season report for the 2017-2018 season (/documents/mdhhs/2017-2018_Flu_Page_634659_7.pdf)

Influenza season report for the 2016-2017 season (/documents/mdhhs/2016-2017_Flu_Page_603032_7.pdf)

Influenza season report for the 2015-2016 season (/documents/mdhhs/2015-2016_Flu_Page_537173_7.pdf)

Influenza season report for the 2014-2015 season (/documents/mdhhs/2014-2015_Flu_Page_502080_7.pdf)

Influenza season report for the 2013-2014 season (/documents/mdch/2014_Flu_page_470910_7.pdf)

Influenza season report for the 2012-2013 season (/documents/mdch/2013_Flu_page_435634_7.pdf)

Influenza season report for the 2011-2012 season

(http://www.michigan.gov/documents/mdch/BOL_flu_page_2011-12_season_399518_7.pdf)

Influenza season report for the 2010-2011 season

(http://www.michigan.gov/documents/mdch/Flu_page_2010-2011_364393_7.pdf)

Influenza season report for the 2009-2010 season

(http://www.michigan.gov/documents/mdch/flu_page_2009_334069_7.pdf)

Influenza season report for the 2008-2009 season (http://www.michigan.gov/documents/mdch/08-09_flu_season_summary_293995_7.pdf)

Summary of 2007/2008 Influenza Season report (http://www.michigan.gov/documents/mdch/2007-2008_Influenza_Season_Summary_242040_7.pdf)

Summary of 2006/2007 Influenza Season report (http://www.michigan.gov/documents/mdch/2006-2007_Influenza_Season_Summary_205568_7.pdf)

Summary of 2005/2006 Influenza Season report (http://www.michigan.gov/documents/2005-2006_MI_Flu_Summary_164382_7.pdf)

Influenza season report for the 2007-2008 season (http://www.michigan.gov/documents/mdch/2007-2008_flu_season_251850_7.pdf)

Influenza season report for the 2006-2007 season

(http://www.michigan.gov/documents/mdch/Influenza_season_report_2006-2007_211262_7.pdf)

Influenza season report for the 2005-2006 season (http://www.michigan.gov/documents/mdch/Flu2005-06_174607_7.pdf)

Influenza season report for the 2004-2005 season

(http://www.michigan.gov/documents/Infl_Season_Rpt_2004-2005_131419_7.pdf)

Influenza season report for the 2003-2004 season

(http://www.michigan.gov/documents/Flu_web_page_2003_102882_7.pdf)

Influenza season report for the 2002-2003 season (http://www.michigan.gov/documents/Influenza_2002-2003_Web_Page_80478_7.pdf)

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