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Laboratory Influenza Page



Flu Vaccine: For Everyone, Every Year

For the fall 2010 Influenza Season, the MDCH Bureau of Laboratories will be performing testing for all flu strains which include 2009 pandemic flu, seasonal flu A types and Flu B. In addition, MDCH 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. The Michigan Department of Community Health (MDCH) 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, and nasal aspirates (NA)
- Lower respiratory tract specimens such as bronchoalveolar lavage (BAL), bronchial aspirate (BA), bronchial washes (BW), endotracheal aspirates (EA), endotracheal wash (EW), tracheal aspirates (TA), and viral culture

For the most current updates, see the latest [MIFluFocus report](#). For the latest information on the outbreak, see the [MDCH Influenza Page](#).

[2010-2011 Influenza Test Algorithm](#)
[2010-2011 Influenza PCR Result Interpretation Table](#)

2010-2011 Influenza Season Report

MDCH Laboratory Data

The data shown here are the results obtained by the MDCH 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, MDCH 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, H1	Seasonal A, H3	A, Unsubtypable	Adeno	RSV	Para 1	Para 2	Para 3
Sept 18 - Sept 24	0	0	0	0	0	0	0	0	0	0
Sept 11 - Sept 17	0	0	0	0	0	0	0	0	0	0
Sept 4 - Sept 10	0	0	0	0	0	0	0	0	0	0
Aug 28 - Sept 3	0	0	0	1	0	0	0	0	0	0
August 2011	0	0	0	0	0	0	0	0	0	0
July 2011	0	0	0	0	0	0	0	0	0	0
June 2011	0	0	0	0	0	0	1	0	0	0
May 2011	1	1	0	0	0	0	3	0	0	1
April 2011	6	3	0	19	0	0	0	0	0	1
March 2011	21	37	0	35	1 [#]	0	1	0	0	2
February 2011	19 [@]	72 [@]	0	35 [@]	0	2	0	2	0	2
January 2011	11	37	0	51	0	1	1	1	0	1
December 2010	2	5	0	18	0	1	0	0	0	2
November 2010	1 [^]	1	0	2	0	0	0	0	0	0
October 2010	0	1	0	4 [*]	0	0	0	0	0	0

[#] This isolate was not able to be subtyped due to the age of the isolate.

[^] This isolate was obtained from a resident of the state of Georgia.

^{*} Three of these isolates were obtained from residents of the state of Texas.

[@] These results represent two coinfections with 2009 A H1N1 and A H3 and one coinfection with 2009 A H1N1 and Influenza B.

2010-2011 Guidance Documents

[2010-2011 Influenza Testing Algorithm](#)

[Influenza Guidance for Laboratories](#)

[Influenza Guidance for Healthcare Providers](#)

[Influenza Guidance for Local Health Departments](#)

2010-2011 Northern Hemisphere Seasonal Influenza Vaccine Components

A/California/7/2009 (2009 H1N1) - like virus
A/Perth/16/2009 (H3N2) - like virus
B/Brisbane/60/2008 (B/Victoria lineage) - like virus

2011-2012 Northern Hemisphere Seasonal Influenza Vaccine Components

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Michigan Laboratories At Which Influenza 2009 A Virus PCR Diagnostic Testing May Be Available

(The list below may not be all-inclusive and does not imply endorsement.)

- Warde Laboratories (Ann Arbor) 734-214-0300
www.wardelab.com
- William Beaumont Hospital (Royal Oak) 1-800-551-0488
www.beaumont-hospitals.com/labs
- Spectrum Health (Grand Rapids) 616-486-6233
www.spectrum-health.org
- University of Michigan Health System (Ann Arbor) 734-763-2568
www.med.umich.edu
- Sparrow Regional Laboratories (Lansing) 517-364-7800
- VA Ann Arbor Healthcare System (Ann Arbor) 734-845-3427
<http://www.annarbor.va.gov/>
- Marquette General Health System (Marquette) 906-225-7860
www.mgh.org/lab/index.html

Other clinical laboratories in Michigan are actively engaged in developing their diagnostic capabilities for this agent. Check this web page where the names of clinical laboratories in Michigan with 2009 Novel Influenza diagnostic tests will be posted after validation by MDCH BOL.

Nationally, PCR testing (including subtyping) for influenza 2009 A (H1N1) virus is available at Quest Laboratories through their subsidiary, Focus Diagnostics, and may become available at other laboratories.

www.questdiagnostics.com

updated 12/3/2010

Antiviral Resistance Testing

[Information on Testing for Influenza Antiviral Resistance](#)- updated 01/11/2010

[Algorithm for Requests for Antiviral Resistance Testing by CDC for Clinical Care](#)- updated 01/11/2010

Test Request Form

[MDCH Test Request Form](#) - 4/27/2009

[Quick Guide for Filling Out the MDCH Test Request Form](#) - updated 9/9/2009

Specimen Collection and Shipping

[Quick Guide for Packaging and Shipping Influenza Specimens to BOL](#) - updated 9/15/2009

[Quick Guide for Making Influenza Specimen Collection Kits](#) - updated 8/26/2009

[NP Swab Collection Instructions DCH-0772 Viral PCR](#)- 4/30/2009

[MDCH BOL Flu Collection Guide](#) - updated 11/16/2010

Biological Substance, Category B Shipping Label - [DCH-0800](#) - updated 12/21/2009

Influenza Resources

- [MiFluFocus](#) - A weekly influenza surveillance report that comes out Thursdays each week.
- www.michigan.gov/flu - A State of Michigan web site dedicated to influenza (flu).
- www.michigan.gov/prepare- A State of Michigan web site dedicated to emergency preparedness.
- www.pandemicflu.gov- The National Influenza Preparedness web site.
- [Laboratory Biosafety Guidelines](#) - These biosafety guidelines have been developed for Michigan laboratories handling and processing specimens associated with influenza.
- [CDC Guidelines for Follow-up of Contacts of Persons with Suspected Avian Influenza \(H5N1\)](#).
- updated 11/25/2008
- [CDC Guidelines for Lab Testing of Persons with Suspected Avian Influenza \(H5N1\)](#). - updated 11/25/2008
- 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](#).

National influenza surveillance summary information:

- [CDC Novel Influenza A \(H1N1\) page](#)
 - [CDC Weekly Influenza Surveillance page](#).
 - [The CDC Influenza page](#).
 - [The World Health Organization](#)
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Past Influenza Season Data

[Influenza season report for the 2009-2010 season.](#)

[Influenza season report for the 2008-2009 season.](#)

[Summary of 2007/2008 Influenza Season report.](#)

[Summary of 2006/2007 Influenza Season report.](#)

[Summary of 2005/2006 Influenza Season report.](#)
[Influenza season report for the 2007-2008 season.](#)
[Influenza season report for the 2006-2007 season.](#)
[Influenza season report for the 2005-2006 season.](#)
[Influenza season report for the 2004-2005 season.](#)
[Influenza season report for the 2003-2004 season.](#)
[Influenza season report for the 2002-2003 season.](#)

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