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## Enterovirus Activity in Michigan

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### Enterovirus Data: Bureau of Laboratories Viral Meningitis Clinical Data: Bureau of Epidemiology

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#### I. Summary of 2003 Viral Meningitis - Enterovirus Season

As of 12/05/2003, the MDCH Bureau of Epidemiology reported that the number of clinically reported cases of viral meningitis only ran 0.7% lower than the 5-year average number of cases reported for this time of year. However, the number of cases ran 12% above the total number of reported cases for the same time period last year. Cases reported have begun to decrease and will remain somewhat constant until July-August of next year. The MDCH Bureau of Laboratories received 101 samples for enterovirus culture this season.

True to form, enterovirus activity peaked in late summer/early fall this year. The MDCH is reporting that the highest number of cases was reported in the month of October, followed closely by September. Children between 1-9 years of age comprised the group with the highest number of cases reported, followed by the age groups 20-29 and 10-19. Due to variation from year-to-year, it is extremely difficult to identify long-term trends that would be able to indicate severity of any enterovirus season.

If you would like more information or have questions regarding clinical aspects of viral meningitis, please call the MDCH Bureau of Epidemiology at (517) 335-8165.

The CDC Enterovirus page can be accessed at:

[CDC Non-Polio Enterovirus page.](#)

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#### II. Summary of Viral Meningitis Clinical Data By Geographic Location

Based on Public Act 368, MDCH is conducting surveillance for viral meningitis. Physicians report cases of viral meningitis to their local health department. These reports are aggregated for the entire state by the MDCH Bureau of Epidemiology. The data shown here are the aggregate numbers of viral meningitis cases reported to MDCH, by Health Region. These data are assumed to be an underestimate of the true number of cases, as they do not account for those individuals who did not seek medical care or who were not reported to the local health department.

Data for the week ending 12/05/2003.

To determine your county's Health Region, see the listing at the end of this page.

Health Region	Cases this Week	2003 YTD	Percent of Total	2002 YTD
South East	17	681	53.5	689
South Central	1	82	6.4	89
South West	2	119	9.4	92
West Central	0	123	9.7	91
East Central	1	106	8.3	72
North Central	8	128	10.1	74
Northern LP	0	25	2.0	24
Upper Peninsula	0	7	0.6	5
Total	29	1272	100	1136

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### III. Summary of Enterovirus Data by Geographic Location

The data shown here are the results obtained by the MDCH Viral Isolation Laboratory from submitted isolates plus enterovirus isolates recovered from clinical specimens submitted by any agency or physician in the state.

Data through 12/05/2003.

This season, the MDCH lab received 101 specimens for enterovirus isolation/typing, some of which grew no virus.

To determine your county's Health Region, see the listing at the end of this page.

Health Region	Adeno	Cox A9	Echo 9	Echo 18	Echo 30	Cox B4	Comments
South East		1	2		1		
South Central				1			
South West							No Enteroviruses isolated.
West Central		1	8			1	
East Central		1	7				
North Central			3				
Northern LP	1		5				
Upper Peninsula							No Enteroviruses isolated.

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#### IV. Laboratory Data by Health Region

This section provides a complete breakdown of the above results, by Health Region.

##### South East

Patient Age	Patient Gender	Patient County	Enterovirus Type
8 Year	Female	Patient residence unknown Submitting County: Wayne	Cox A9
7 Year	Male	Patient residence unknown Submitting County: Wayne	Echo 30
14 Year	Male	Patient residence unknown Submitting County: Wayne	Echo 9
45 Year	Male	Patient residence unknown Submitting County: Wayne	Echo 9

##### South Central

Patient Age	Patient Gender	Patient County	Enterovirus Type
5 Year	Male	Patient Residence unknown Submitting County: Ingham	Echo 18

##### South West

No enteroviruses have been isolated from this region.			
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##### West Central

Patient Age	Patient Gender	Patient County	Enterovirus Type
43 Year	Male	Patient residence Kent Submitting County: Kent	Echo 9
29 Day	Female	Patient residence unknown Submitting County: Kent	Echo 9
29 Day	Female	Patient Residence unknown Submitting County: Kent	Echo 9
15 Year	Female	Patient Residence unknown Submitting County: Kent	Echo 9
49 Year	Male	Patient residence unknown Submitting County: Kent	Echo 9
29 Year	Male	Patient residence unknown Submitting County: Kent	Cox A9
6 Month	Male	Patient residence unknown Submitting County: Kent	Echo 9
25 Year	Female	Patient residence Allegan Submitting County: Kent	Echo 9
36 Year	Female	Patient residence Kent Submitting County: Kent	Cox B4
23 Year	Female	Patient residence Kent Submitting County: Kent	Echo 9

##### East Central

Patient Age	Patient Gender	Patient County	Enterovirus Type
2 Year	Male	Patient Residence unknown Submitting County: Genesee	Cox A9
6 Year	Female	Patient Residence unknown Submitting County: Genesee	Echo 9
7 Year	Female	Patient Residence unknown Submitting County: Genesee	Echo 9
10 Year	Male	Patient Residence unknown Submitting County: Genesee	Echo 9
28 Day	Female	Patient Residence unknown Submitting County: Genesee	Echo 9
11 Year	Unknown	Patient Residence unknown Submitting County: Genesee	Echo 9
2 Month	Male	Patient Residence unknown Submitting County: Genesee	Echo 9
6 Week	Male	Patient Residence unknown Submitting County: Genesee	Echo 9

**North Central**

Patient Age	Patient Gender	Patient County	Enterovirus Type
16 Year	Male	Patient residence Iosco Submitting County: Iosco	Echo 9
10 Year	Female	Patient residence Midland Submitting County: Midland	Echo 9
28 Year	Male	Patient residence Iosco Submitting County: Iosco	Echo 9

**Northern Lower Peninsula**

Patient Age	Patient Gender	Patient County	Enterovirus Type
28 Day	Male	Patient residence Antrim Submitting County: Grand Traverse	Echo 9
5 Year	Male	Patient residence Antrim Submitting County: Grand Traverse	Echo 9
35 Year	Male	Patient residence Crawford Submitting County: Grand Traverse	Echo 9 (2 sources)
17 Year	Male	Patient residence Antrim Submitting County: Grand Traverse	Echo 9
27 Year	Female	Patient residence Grand Traverse Submitting County: Grand Traverse	Adeno

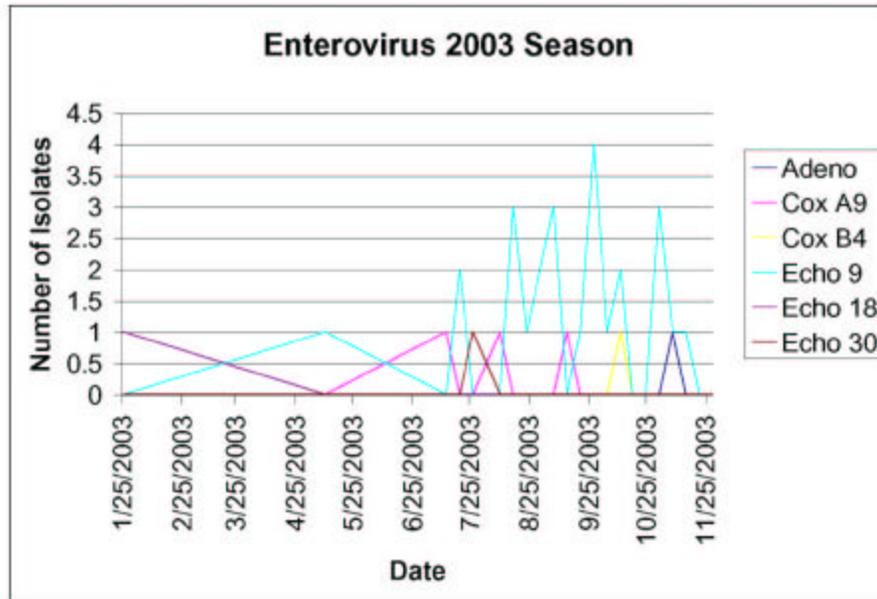
**Upper Peninsula**

No enteroviruses have been isolated from this region.
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**V. Cumulative Enterovirus Data (YTD)**

The data shown here is a summary of the combined data from all Health Regions for the week ending at the indicated date.



[Click here for a larger view of the above graph.](#)

The data used in the graph is presented below in table format.

Date 2003	Cox A9	Cox A9 Cum.	Cox B1	Cox B1 Cum.	Cox B4	Cox B4 Cum.	Echo 9	Echo 9 Cum.	Echo 18	Echo 18 Cum.	Echo 30	Echo 30 Cum.	Adeno	Adeno Cum.	Untyped
01/25	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
05/10	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0
07/12	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0
07/19	0	1	0	0	0	0	2	3	0	1	0	0	0	0	0
07/26	0	1	0	0	0	0	0	3	0	1	1	1	0	0	0
08/09	1	2	0	0	0	0	0	3	0	1	0	1	0	0	0
08/16	0	2	0	0	0	0	3	6	0	1	0	1	0	0	0
08/23	0	2	0	0	0	0	1	7	0	1	0	1	0	0	0
08/30	0	2	0	0	0	0	2	9	0	1	0	1	0	0	0
09/06	0	2	0	0	0	0	3	12	0	1	0	1	0	0	0
09/13	1	3	0	0	0	0	0	12	0	1	0	1	0	0	0
09/20	0	3	0	0	0	0	1	13	0	1	0	1	0	0	0
09/27	0	3	0	0	0	0	4	17	0	1	0	1	0	0	0
10/04	0	3	0	0	0	0	1	18	0	1	0	1	0	0	0
10/11	0	3	0	0	1	1	2	20	0	1	0	1	0	0	0
10/17	0	3	0	0	0	1	0	20	0	1	0	1	0	0	0

10/24	0	3	0	0	0	1	0	20	0	1	0	1	0	0	0
10/31	0	3	0	0	0	1	3	23	0	1	0	1	0	0	0
11/07	0	3	0	0	0	1	1	24	0	1	0	1	1	1	0
11/14	0	3	0	0	0	1	1	25	0	1	0	1	0	1	0
11/21	0	3	0	3	0	1	0	25	0	1	0	1	0	1	0
11/28	0	3	0	0	0	1	0	25	0	1	0	1	0	1	0
12/5	0	3	0	0	0	1	0	25	0	1	0	1	0	1	0

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**VI. Listings of Counties and Their Respective Health Regions - [CLICK HERE](#)**

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