



Surveillance

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Influenza
(Flu)

ICD-9 487; ICD-10 J10,11

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2008 - 2009 Texas Influenza Surveillance Information

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Influenza Surveillance Report for MMWR Week 37

The influenza (flu) activity level for Texas for the week ending September 19, 2009 was "widespread." For definitions of flu activity levels please see <http://www.cdc.gov/flu/weekly/fluactivity.htm>. During week 37, 907 (32.2%) specimens tested by NREVSS laboratories in Texas were positive for influenza. The percentage of visits for influenza-like illness as reported by ILINet providers in Texas was above the regional baseline during week 37.

Reports from Health Service Regions

Reports were received from all Health Service Regions (HSRs) for week 37. HSRs 2/3, 4/5N, 6/5S, 7, 9/10, and 11 reported an increased level of flu activity compared to week 36. HSRs 1 and 8 reported the same level of flu activity compared to week 36. For a map of Health Service Regions please visit the following website:

www.dshs.state.tx.us/regions/state.shtm

Laboratory Results

During week 37, eleven hospital laboratories and public health agencies across Texas reported conducting a total of 2,817 influenza tests (antigen, culture, and PCR) to the National Respiratory and Enteric Virus Surveillance System (**NREVSS**) sponsored by the Centers for Disease Control and Prevention (CDC). The majority (69.8%) of influenza tests reported to NREVSS were antigen detection tests; these tests cannot identify the subtype of influenza detected. The results from Texas participants in NREVSS are summarized in the table below.

Testing Information	Week 37
No. of specimens tested	2,817

No. of positive specimens (%)	907 (32.2%)
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Positive specimens by type/subtype

Influenza A	906 (99.9%)
A (novel H1N1)	294 (32.5%)
A (subtyping not performed)	612 (67.5%)
A (unable to subtype)	0 (0%)
A (H3)	0 (0%)
A (seasonal H1)	0 (0%)
Influenza B	1 (0.1%)

Additional influenza test results (rapid tests, culture, PCR) were reported from providers and public health departments throughout the state (see county map below).

Novel Influenza A Virus Infections

Please see the Texas Department of State Health Services (DSHS) novel influenza website (<http://www.texasflu.org>) and the CDC website (<http://www.cdc.gov/h1n1flu/>) for more information. Data collection for confirmed novel influenza A (H1N1) hospitalizations, ICU admissions, and deaths began in Texas on September 20, 2009.

Antigenic Characterization

CDC has reported antigenic characterization results from 51 seasonal influenza isolates [20 influenza A (H1N1), 8 influenza A (H3N2), and 23 influenza B viruses] and 6 novel influenza A (H1N1) viruses received from the DSHS Laboratory since the beginning of the 2008–09 flu season. Other laboratories in Texas submit influenza isolates to CDC for testing, but those results were not available for this report.

Influenza A (H1N1) seasonal [20]

- All 20 viruses were characterized as A/Brisbane/59/2007, the influenza A (H1) component of the 2008–09 influenza vaccine for the Northern Hemisphere.

Influenza A (H3N2) [8]

- All 8 viruses were characterized as A/Brisbane/10/2007, the influenza A (H3) component of the 2008-09 influenza vaccine for the Northern Hemisphere.

Influenza B (B/Victoria/02/87 and B/Yamagata/16/88 lineages) [23]

Victoria lineage [16]

- Sixteen of the influenza B viruses were characterized as belonging to the B/Victoria lineage.

Yamagata lineage [7]

- Seven viruses were characterized as B/Florida/4/2006, the influenza B component for the 2008-09 influenza vaccine for the Northern Hemisphere.

Novel influenza A (H1N1) [6]

- All 6 viruses were characterized as A/California/07/2009-like (H1N1), the reference virus selected by the World Health Organization (WHO) as a candidate for the novel influenza A (H1N1) vaccine.

Antiviral Resistance

Since September 28, 2008, 22 seasonal influenza A (H1N1) isolates, 8 influenza A (H3N2) isolates, 23 influenza B isolates, and 5 novel influenza A (H1N1) isolates from the DSHS laboratory have been tested by CDC for antiviral resistance. Other laboratories in Texas submit influenza isolates to CDC for testing, but those results were not available for this report; therefore, the total number of novel influenza A (H1N1) isolates that have been tested from Texas by CDC is not known at this time.

Flu Types/Subtypes	Isolates Tested (n)	Resistant Viruses, Number (%)		Isolates Tested (n)	Resistant Viruses, Number (%)
		Oseltamivir	Zanamivir		Adamantanes
Influenza A (H1N1) (seasonal)	22	22 (100)	0 (0)	22	0 (0)
Influenza A (H3N2)	8	0 (0)	0 (0)	7	7 (100)
Influenza B	23	0 (0)	0 (0)	N/A*	N/A*
Influenza A (H1N1) (novel)**	Not available	2 (--)	0 (0)	Not available	-- (100)

*Adamantanes are not effective against influenza B viruses.

**Antiviral resistance testing is performed on a subset of Texas isolates at the CDC lab. The total number of novel influenza A (H1N1) isolates from Texas that have been tested for antiviral resistance is not available. Of all of the novel influenza A (H1N1) isolates from Texas that have been tested for antiviral resistance, only 2 have shown resistance to oseltamivir. No novel influenza A (H1N1) isolates have shown resistance to zanamivir. All novel influenza A (H1N1) isolates have shown resistance to the adamantanes.

CDC has issued interim recommendations for use of antiviral medications in the 2009-10 influenza season. Those recommendations are available at:

<http://www.cdc.gov/h1n1flu/recommendations.htm>.

Influenza-Associated Pediatric Mortality

Three influenza-associated pediatric deaths occurred during week 37. All three children had confirmed novel influenza A (H1N1) by PCR testing. The first death occurred in an 11-year-old resident of HSR 2/3. The child had no underlying medical conditions; however, the child's blood culture was positive for methicillin-sensitive *Staphylococcus aureus* (MSSA) during the influenza illness. The second death occurred in a 3-year-old resident of HSR 2/3 with multiple significant underlying medical conditions. The third death occurred in a 25-day-old resident of HSR 6/5S with a significant underlying medical condition. Texas has reported 18 influenza-associated pediatric fatalities during the 2008-09 influenza season.

School Closures and Institutional Outbreaks

An outbreak of influenza A [including one test positive for novel influenza A (H1N1)] was reported at a university in Kleberg County during week 37. DSHS has issued guidance for cases of ILI and novel influenza A H1N1 in summer camps, schools, and congregate facilities. Please see <http://www.texasflu.org> for more information.

U.S. Outpatient Influenza-like Illness Surveillance Network

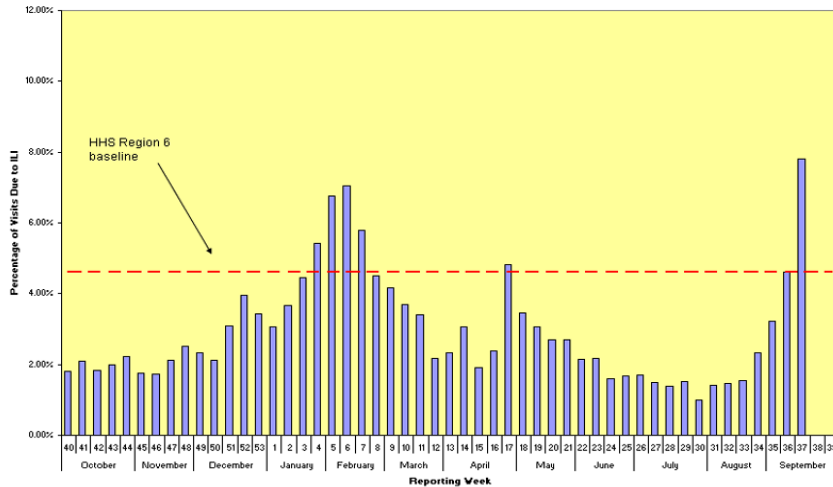
Thirty-four providers in Texas reported data to the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) (formerly known as the U.S. Influenza Sentinel Provider Surveillance System) on patients with influenza-like illness (ILI) and total patients seen for any reason during week 37. Of these 34 providers, 27 (79%) saw at least one patient with ILI. Of all patient visits during this week, 7.80% were due to ILI. The percentage of visits due to ILI for week 37 was higher than that of the peak week (week 6, week ending February 14, 2009) during the 'official' 2008-2009 influenza season. The ILI baseline for HHS Region 6 (Arkansas, Louisiana, New Mexico, Oklahoma, and Texas) of the United States is 4.6% for the 2008-2009 season. The baseline is the mean percentage of patient visits for ILI during non-influenza weeks for the previous three seasons plus two standard deviations.

Percentage of Visits for Influenza-Like Illness Reported by the US Outpatient Influenza-Like Illness Surveillance Network (ILINet) in Texas as of 9/25/2009								
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week	# Reporting	Age 0-4	Age 5-24	Age 25-64	Age over 64	Total ILI	Total Patients	% ILI

2008-40	78	84	133	127	22	366	20333	1.80
2008-41	78	114	163	124	19	420	20105	2.09
2008-42	79	107	156	90	7	360	19746	1.82
2008-43	80	120	152	106	20	398	19857	2.00
2008-44	82	136	199	104	26	465	20972	2.22
2008-45	79	110	111	122	27	370	20959	1.77
2008-46	74	110	107	103	23	343	19890	1.72
2008-47	76	137	143	122	19	421	19907	2.11
2008-48	80	132	132	125	37	426	17012	2.50
2008-49	78	143	159	153	24	479	20446	2.34
2008-50	76	133	146	108	28	415	19450	2.13
2008-51	70	172	177	175	24	548	17663	3.10
2008-52	77	194	153	154	34	535	13509	3.96
2008-53	78	176	141	165	46	528	15329	3.44
2009-01	79	162	182	188	38	570	18646	3.06
2009-02	78	178	287	235	41	741	20222	3.66
2009-03	79	174	468	341	43	1026	23058	4.45
2009-04	79	260	679	333	47	1319	24350	5.42
2009-05	74	282	884	467	40	1673	24734	6.76
2009-06	80	301	965	392	59	1717	24320	7.06
2009-07	79	317	803	316	57	1493	25821	5.78
2009-08	74	221	552	283	57	1113	24664	4.51
2009-09	77	194	423	245	71	933	22428	4.16
2009-10	80	221	325	212	77	835	22635	3.69
2009-11	77	167	269	178	58	672	19656	3.42
2009-12	72	109	150	179	18	456	20910	2.18
2009-13	74	115	143	163	16	437	18760	2.33
2009-14	81	158	199	234	51	642	20963	3.06
2009-15	78	92	138	156	23	400	21254	1.92
2009-16	87	133	200	163	28	524	22058	2.38
2009-17	77	260	570	348	44	1222	25406	4.81
2009-	72	200	361	185	31	777	22503	3.45

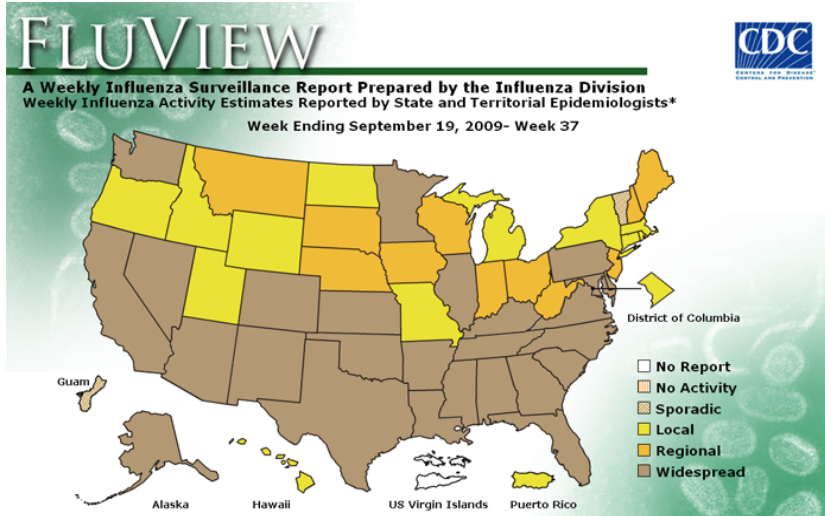
18								
2009-19	65	125	253	183	24	585	19066	3.07
2009-20	63	122	255	134	7	518	19150	2.70
2009-21	64	115	221	111	31	478	17728	2.70
2009-22	61	108	188	88	14	398	18573	2.14
2009-23	55	79	103	29	9	220	10111	2.18
2009-24	53	65	119	79	4	267	16773	1.59
2009-25	59	72	114	79	15	280	16624	1.68
2009-26	59	68	105	75	13	261	15326	1.70
2009-27	58	72	90	72	15	249	16643	1.50
2009-28	62	44	101	78	15	238	17296	1.38
2009-29	60	67	101	73	14	255	16844	1.51
2009-30	55	25	41	23	11	100	9965	1.00
2009-31	60	56	92	95	9	252	17727	1.42
2009-32	56	56	109	81	9	255	17385	1.47
2009-33	53	46	110	124	13	293	18887	1.55
2009-34	52	74	267	99	3	443	19040	2.33
2009-35	46	117	418	88	6	629	19522	3.22
2009-36	42	117	592	155	10	874	18939	4.61
2009-37	34	219	1005	284	16	1524	19547	7.80

Percentage of Visits Due to Influenza-Like Illness (ILI),
Texas Providers in the U.S. Outpatient Influenza-Like Illness Surveillance Network,
2008-2009



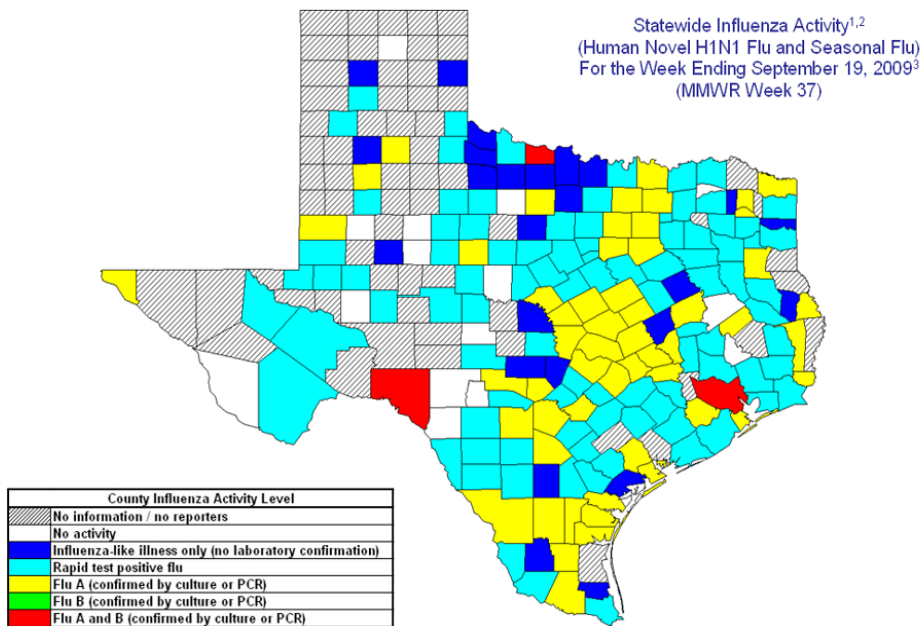
National Influenza Activity Map

The current U.S. flu weekly report may be found at <http://www.cdc.gov/flu/weekly/fluactivity.htm>.



*This map indicates geographic spread and does not measure the severity of influenza activity.

For more information on flu surveillance activities in the State of Texas, please visit our main [surveillance](#) page.



¹Influenza activity level corresponds to current MMWR week only and does not reflect previous weeks' activity.

²The majority of influenza cases are not reportable by law to the Texas Department of State Health Services. This map contains data from sentinel sites and does not represent all influenza cases in the state.

³Positive laboratory results are reported according to specimen collection date or date received in the lab if the former is unknown.

2008 - 2009 Texas Influenza Surveillance Information --- Flu Reports

For the week ending: **10/4/08; 10/11/08; 10/18/08; 10/25/08; 11/01/08; 11/08/08; 11/15/08; 11/22/08; 11/29/08; 12/06/08; 12/13/08; 12/20/08; 12/27/08; 01/03/09; 01/10/09; 01/17/09; 01/24/09; 01/31/09; 02/07/09; 02/14/09; 02/21/09; 02/28/09; 03/07/09; 03/14/09; 03/21/09; 03/28/09; 04/04/09; 04/11/09; 04/18/09; 04/25/09; 05/02/09; 05/09/09; 05/16/09;**

[05/23/09](#); [05/30/09](#); [06/06/09](#); [06/13/09](#); [06/20/09](#); [06/27/09](#); [07/04/09](#);
[07/11/09](#); [07/18/09](#); [07/25/09](#); [08/01/09](#); [08/08/09](#); [08/15/09](#); [08/22/09](#);
[08/29/09](#); [09/05/09](#); [09/12/09](#); [09/19/09](#); [09/26/09](#); [10/03/09](#)

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