



COLLIN COUNTY HEALTH CARE SERVICES

Epidemiology Influenza Report

Weekly Report 1, Ending 1/10/2009

MURIEL MARSHALL, DO, DrPH
 HEALTH AUTHORITY
 825 N. McDonald St, Suite 130 • McKinney, Texas 75069

PEGGY WITTIE, PhD, MAG
 CHIEF EPIDEMIOLOGIST
 972-548-4707 • www.co.collin.tx.us

Overview

(All data are preliminary and may change as more reports are received)

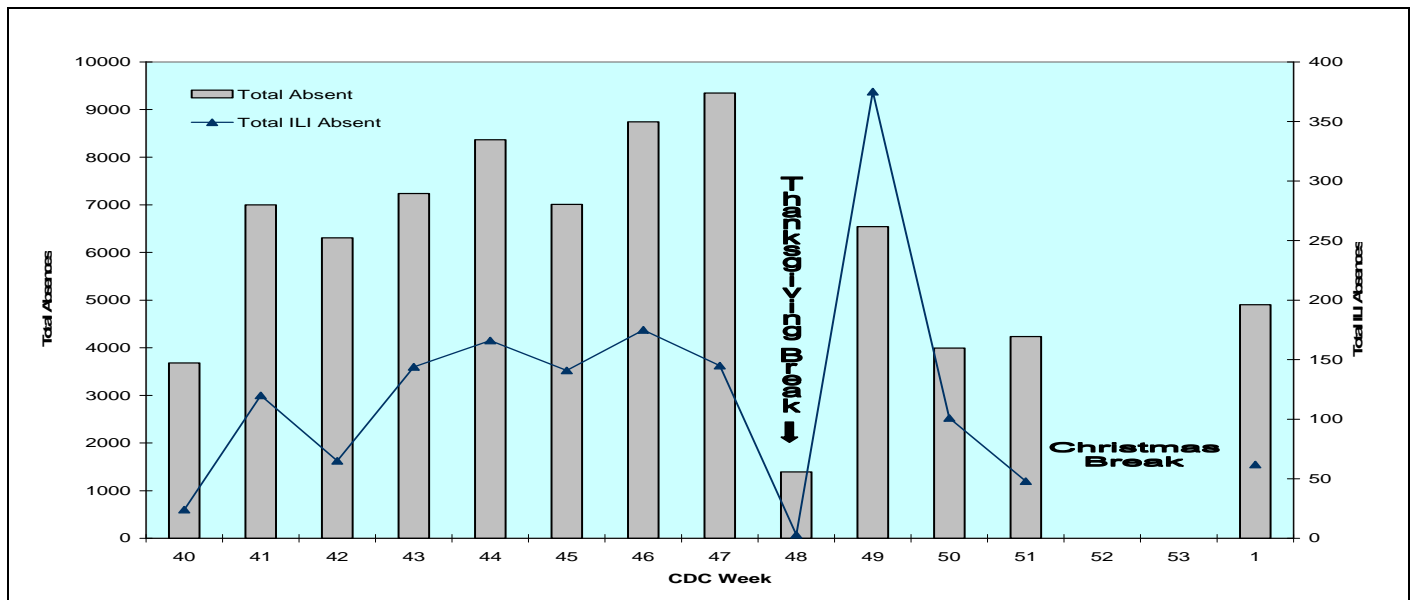
Influenza Activity Level	
United States	Low
Texas	Local
Texas Viral Activity	
Dominate influenza isolate submitted	Influenza A/H1
Influenza-associated pediatric deaths	1

Figure 1. Weekly Provider & Hospital Influenza Testing Results, Collin County

Week Ending	11/1	11/8	11/15	11/22	11/29	12/6	12/13	12/20	12/27	1/3	1/10
CDC Week 2008-09	44	45	46	47	48	49	50	51	52	53	1
# Influenza Tests Performed Weekly	24	47	32	66	46	62	89	75	71	121	139
# Positive Influenza Tests	0	3	6	10	1	2	1	7	9	5	21
% Positive Influenza Tests ¹	0	6.4	18.8	15.2	2.2	3.2	1.1	9.3	12.7	4.1	15.1
# Positive A Influenza	0	0	4	7	1	0	1	5	5	5	18
# Positive B Influenza	0	1	2	2	0	2	0	1	3	0	2
# Non-differentiated Influenza	0	2	0	1	0	0	0	1	1	0	1

¹ Percentages based on small numbers should be interpreted with caution. This is particularly evident early in the season in Collin County. As influenza reports become more numerous, this statistic should be less erratic.

Figure 2. Reported School Influenza-like Illness and Total Absences, Collin County



² Courtesy Collin County Independent School Districts

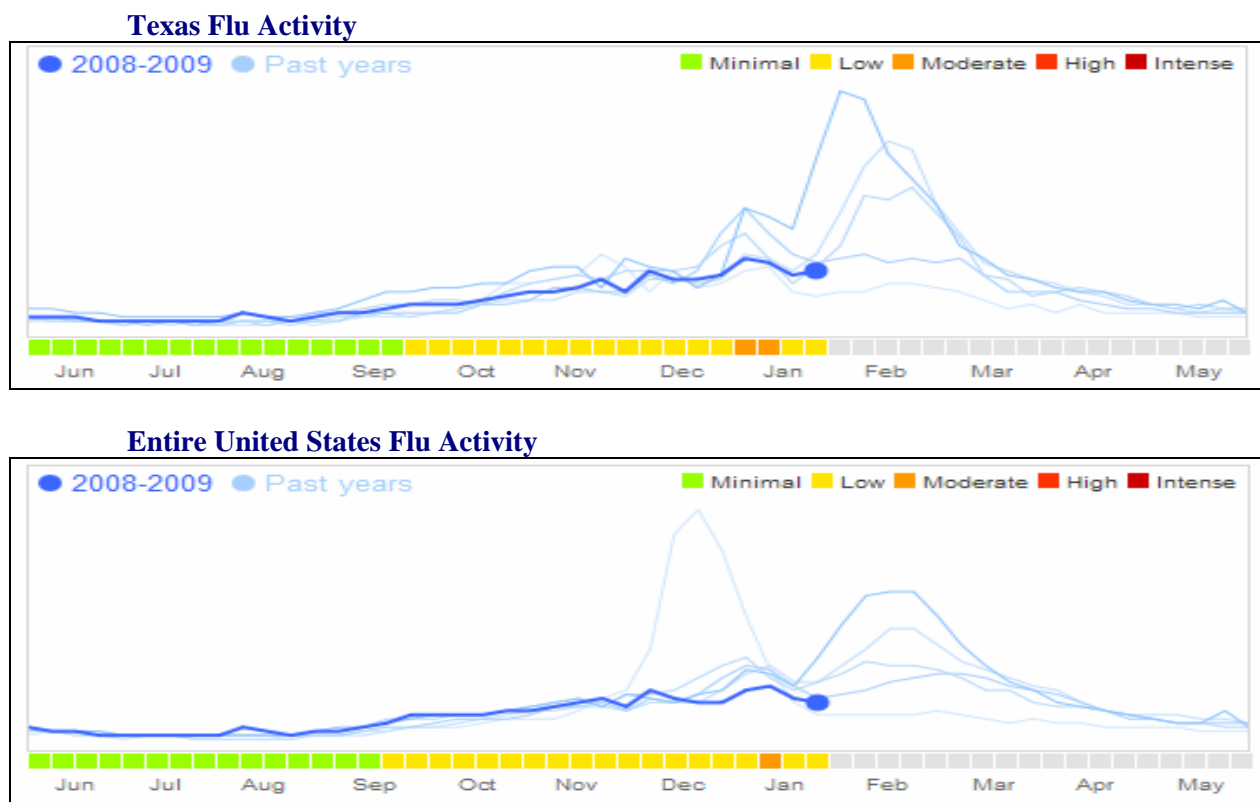
Figure 3. Antigenic Characteristics of Influenza Isolates 2008-2009, Texas

Subtype	Submitted Influenza Isolates	Vaccine Composition
Influenza A H1	11 of 11 (100%) A/Brisbane/59/2007	A/Brisbane/59/2007
Influenza A H3	0 of 0	A/Brisbane/10/2007-like
Influenza B	10 of 10 (100%) Victoria lineage	B/Florida/04/2006-like (Yamagata lineage)

³Courtesy <http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2009>; through Week 1

Figure 4. Google Flu Trends 2008-2009, Texas and United States

How it works? Online health information continues to improve. The CDC and Google used millions of anonymous, aggregated counts of flu-related search queries from 2004 through 2008 to develop Google Trends. It is another method of estimating flu activity



⁴Courtesy Google; <http://www.google.org/flutrends/>

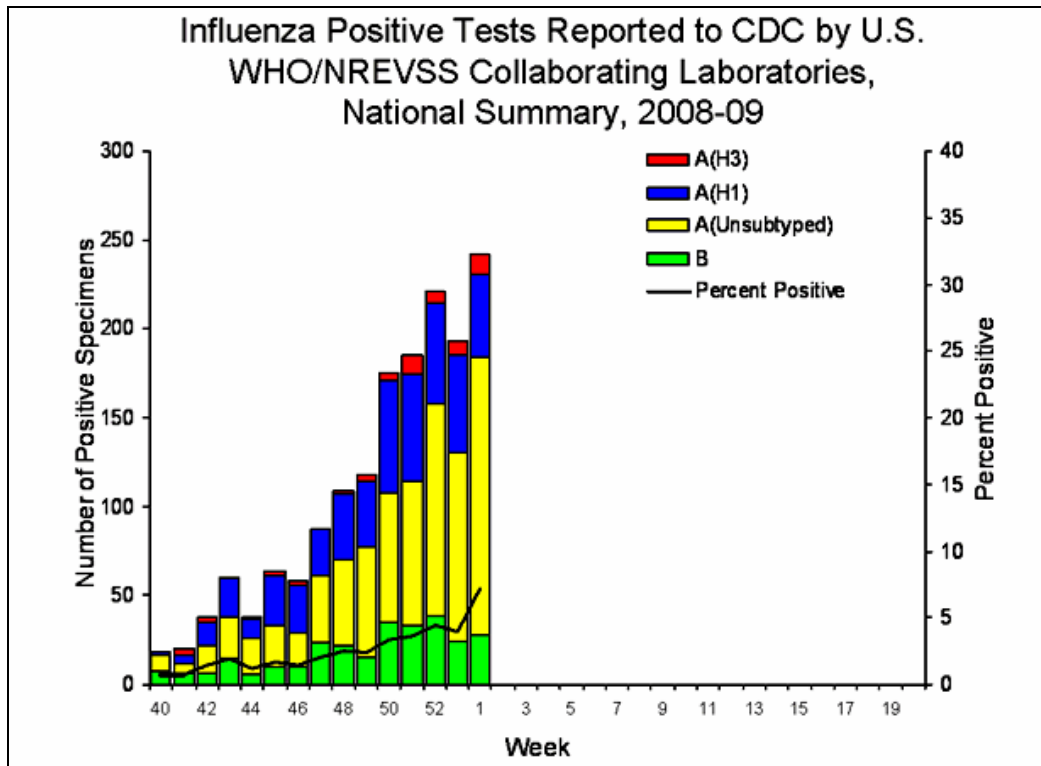
Figure 5. Antiviral Resistance, CDC

	Isolates tested (n)	Resistant Viruses, Number (%)		Isolates tested (n)	Resistant Viruses, Number (%)
		Oseltamivir	Zanamivir		
Influenza A (H1N1)	103	101 (98%)	0 (0)	103	1 (1%)
Influenza A (H3N2)	23	0 (0)	0 (0)	23	23 (100%)
Influenza B	61	0 (0)	0 (0)	N/A*	N/A*

*The adamantanes (amantadine and rimantadine) are not effective against influenza B viruses.

⁵Courtesy CDC; <http://www.cdc.gov/flu/weekly/>

Figure 6. National Respiratory and Enteric Viruses Surveillance System (NREVSS) United States, 2008-09 season, Week 1



⁶Courtesy CDC; <http://www.cdc.gov/flu/weekly/>