

EPI GRAM-March, 2007

A Monthly Publication of the Stark Public Health Infrastructure Coalition

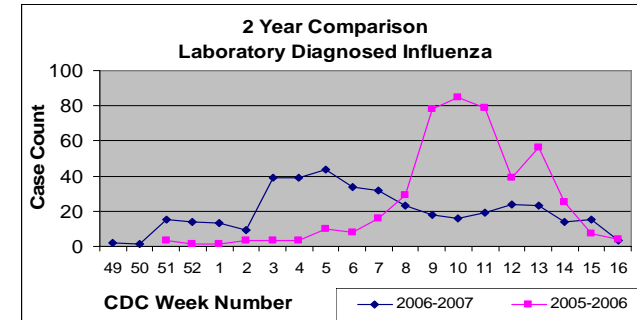
EPI Gram is a monthly publication of the Stark County Public Health Coalition. It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for Stark County, Ohio. Some reportable conditions may be under investigation, and at any given time data may fluctuate from month to month for a specific category.

IN THE NEWS:

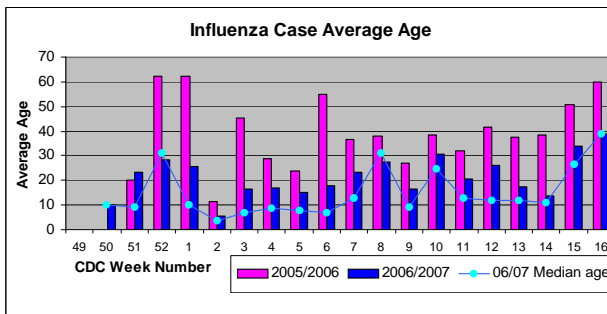
Influenza: Reported cases of influenza in Stark County have dropped significantly, signaling the near end of the seasonal influenza period. This season 397 reports were received by the four local health jurisdictions. (Graph A) Of those, 233 included information on age and influenza type. The season had two remarkable aspects, the ages affected and the high percentage of diagnosed Type B reports.

The age information reveals that only 11 of 243 (4.5%) cases were greater than 65 years of age. Further the average age for this season was 20.5 years with a median of 11 years. (Graph B). By the end of the season there was no difference in average or median age between type A and Type B Influenza.

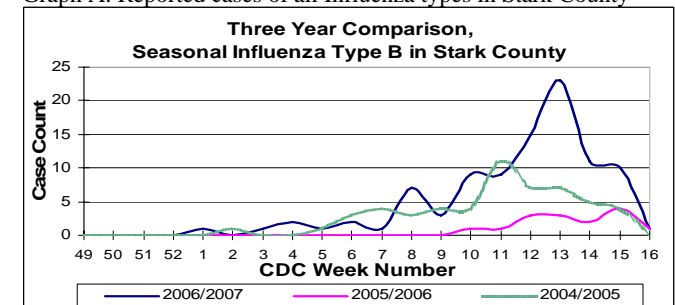
Reports of type B encumbered 34% of all reports (62 of the 243). Type B reports peaked in the last week of March, (see graph C) In that week more cases of Influenza type B were reported than in all of the 2005/2006 season. Type A peaked the last week of January. The following isolates were identified by the Ohio Department of Health from Stark County specimens: Influenza A/New Caledonia-like (H1N1), Influenza B/Malaysia-like, and Influenza B/Shanghai-like. Of note is that the B/Shanghai was not in the influenza vaccine composition recommendations for 2006/2007, nor is it in the recommended composition for 2007/2008.



Graph A. Reported cases of all Influenza types in Stark County



Graph B, Average Age-2 year comparison with median



Graph C. Reported cases of Influenza B in Stark County

Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including limited historical data.

	March 2007				April 2006			
	Monthly High	Monthly Low	Monthly Mean	Counts in highest reported health risk category	Monthly High	Monthly Low	Monthly Mean	Counts in highest reported health risk category
Pollen Count	"Suspended for Season"				740	25	351	N/A
Mold Count	"Suspended for Season"				4320	1020	2722	No elevated results
Air Quality Index	57	10	29.35	2 Moderate	54	29	41.5	4 Moderate

Pollen and Mold counts are derived from rotorod samples on the 2nd story roof of Canton City Hall. The readings are from a 24 hour period\24 hour avg. on all work days. Mold counts of 6,500-12,999 are moderate and many individuals sensitive to molds may experience symptoms, counts of 13,000 to 49,999 are high and most individuals with any sensitivity to molds will experience symptoms. The Air Quality Index (AQI) is derived by comparison to EPA standards from the following readings: Particulate Matter 10, Particulate Matter 2.5 continuous on CCHD 2nd floor roof top; Sulfur Dioxide at Malone College; and ozone monitors in Canton, Brewster, Alliance, and Middlebranch. This index is produced from March to October. AQI ratings are 151-200: unhealthy (UH); 101-150: unhealthy for sensitive groups (UH sg); 51-100: moderate (M); 0-50: good (g).

Table 2 Summary of Select Vital Statistics for Stark County, Ohio

	Mar 2007	YTD 2007	2006
Live Births	427	2224	4839
Births to Teens	37	120	434
Deaths	321	1052	4061

Table 3 Stark County Crude Birth and Death Rates per 10,000 Population

Rates are based on the US Census 2000 Stark County population of 377,438.

	2002	2003	2004	2005	2006
Birth	127	126	124	121	128
Death	109	111	104	114	114

Table 4 – Summary of Select Reportable Diseases for March 2007 in Stark County, Ohio (provisional data only)

Refer to “Case Definitions for Infectious Conditions Under Public Health Surveillance,” MMWR (Morbidity and Mortality Weekly Report) 1997; 46 (No. RR-10), the Ohio Department of Health Infectious Disease Control Manual or visit www.cdc.gov/epo/dphsi/casedef/index.htm for case definitions.

This report includes confirmed, probable and suspect cases.

	Alliance City			Canton City			Massillon City			Stark County			Stark County Totals			
	Mar 2007	YTD 2007	YTD 2006	Mar 2007	YTD 2007	YTD 2006	Mar 2007	YTD 2007	YTD 2006	Mar 2007	YTD 2007	YTD 2006	Mar 2007	YTD 2007	YTD 2006	5 Year annual average
Amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Campylobacteriosis	0	0	0	0	0	3	0	1	0	3	6	7	3	7	10	51.8
Chlamydia	8	22		65	168		4	10		28	85		105	285		1126.4
Creutzfeldt-Jakob Ds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
Cryptosporidiosis	0	0	0	0	0	1	1	1	0	0	1	2	1	2	3	14
E Coli 0157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4
E Coli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Enceph., WNV	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3.6
Enceph., Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8
Giardiasis	0	3	1	0	1	3	0	0	0	3	5	9	3	9	13	49.2
Gonorrhea	2	7		53	140		9	15		20	41		84	203		646
Haemo. Influz., Bac	0	0	0	0	1	1	0	0	0	0	0	1	0	1	2	5.8
Hepatitis A	0	1	0	0	0	0	0	0	1	0	0	2	0	1	3	8
Hepatitis B*	0	0	1	0	2	6	0	1	0	1	1	10	1	4	17	44.6
Hepatitis C*#	3	4	5	11	24	35	1	1	4	11	23	49	26	52	93	273.5
Kawasaki Syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.6
Legionellosis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	12.2
Listeriosis	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	2.4
Lyme Disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.6
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8
Meningitis, Asep	0	0	0	1	3	3	0	0	0	2	3	3	3	6	6	53.8
Meningitis Bac.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.4
Meningococcal Dis.	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2.4
Mumps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Pertussis	0	0	0	1	2	0	0	0	0	1	3	0	2	5	0	17
Salmonellosis	0	2	0	1	2	4	0	0	0	0	4	6	1	8	10	49.4
Shigellosis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	11.8
Strep Inv A GAS	0	0	2	1	3	1	0	0	0	0	1	1	1	4	4	12.2
Strep B Newborn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Strep Pneu ISP	0	0	0	2	8	7	0	1	0	4	12	7	6	21	14	47.8
Strep TSS	0	0	0	0	0	0	0	0	0	2	2	0	2	2	0	0.4
Syphilis	0	0	0	0	0	0	0	0	0	1	3		1	3		21.6
Typhoid Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Varicella#	4	5	5	5	11	24	3	4	4	29	74	137	41	94	170	
Vibriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
Yersiniosis	0	0	0	0	0	0	0	0	0	2	3	0	2	3	0	2

*This includes all hepatitis reports; acute, chronic, and status not known. # Incomplete 5 yr average due to a change in reporting.

If you have any questions, including how to receive copies of this report, please contact Karen Schanz at (330) 493-9928 x287 or Schanzk@starkhealth.org or Christina Henning at (330) 489-3454 or Chenning@cantonhealth.org.