

December– 2005

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

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

Table 1 – Summary of Select Reportable Diseases for Dec 2005 in Stark County, Ohio (provisional data only)

	Alliance City Health			Canton City Health			Massillon City Health			Stark County Health			Stark County Totals			
	Dec 2005	YTD 2005	YTD 2004	Dec 2005	YTD 2005	YTD 2004	Dec 2005	YTD 2005	YTD 2004	Dec 2005	YTD 2005	YTD 2004	Dec 2005	YTD 2005	YTD 2004	5 Year annual average
Amebiasis											1		0	1	0	0.2
Campylobacteriosis		2	2	2	16	4		2	3	3	29	33	5	49	42	54.6
Creutzfeldt-Jakob Dis											1		0	1	0	0.4
Cryptosporidiosis		2	1		3				2		4	9	0	9	12	10
E Coli 0157				2	2							2	2	2	2	2.6
E Coli		2	3								1	1	0	3	4	1.8
Enceph., WNV					1								0	1	0	2.8
Enceph., Other		1	1								2		0	1	3	3.2
Giardiasis		9	2	1	13	9		4	2	6	29	39	7	55	52	54.6
Haemo. Influz., Bac					5	4			1		2	4	0	7	9	4.6
Hepatitis A					1						2	1	0	3	1	10
Hepatitis B*		6	6	4	25	19		1	7	2	20	32	6	52	64	62.5
Hepatitis C*		6	16	9	137	138		31	18	5	89	124	14	263	296	340**
Kawasaki Syndrome		1				1					1	3	0	2	4	3
Legionellosis					6	3		1	1	1	11	3	1	18	7	9
Listeriosis		1			1							2	0	2	2	1.4
Lyme Disease											3		0	3	0	2.8
Malaria											1		0	1	0	1
Meningitis, Asep	1	14	5		3	11			3		30	27	1	47	46	52.6
Meningitis Bac.											3	2	0	3	2	4.4
Meningococcal Dis.								1			2	3	0	3	3	2.8
Pertussis		8			14	2		3	2	1	27	14	1	52	18	7.2
Salmonellosis	1	1	2	1	7	11		3	6	3	27	32	5	38	51	47.4
Shigellosis				2	2	2	5	5			5		7	12	2	11.6
Strep Inv A GAS		2	1		3	3					5	2	0	10	6	10.2
Strep B Newborn					2	1						2	0	2	3	1.4
Strep Pneu ISP		7	5		18	17			3	2	30	26	2	55	51	25
Strep TSS												2	0	0	2	0.6
Typhoid Fever			1										0	0	1	0.2
Varicella													0	0	0	**
Vibriosis												1	0	0	1	0.2
Yersinosis													0	0	0	0.8

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

Table 2 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including limited historical data.

	Dec 2005			Dec 2004			Jan 2005
	Monthly High	Monthly Low	Monthly Mean	Monthly High	Monthly Low	Monthly Mean	Monthly Mean
Pollen Count	Suspended for season**						
Mold Count							
Air Quality Index	60	11	27	53	7	24	22

Pollen and Mold counts are derived from rotorod samples on the 2nd story roof of Canton City Hall. The readings are taken from a 24 hour period/24 hour avg. on all work days. **Suspended for the season: no readings October- March. The Air Quality Index (AQI) is derived by comparison to EPA standards from the following readings: Particulate Matter 2.5 continuous on CCHD 2nd floor roof top; and ozone monitors in Canton, Brewster, and Alliance. Pollen, mold and Ozone are reported from March to October. AQI ratings are 151-200: unhealthy; 101-150: unhealthy for sensitive groups; 51-100: moderate; 0-50: good.

Table 3 Summary of Select Vital Statistics for Stark County, Ohio

	Alliance City Health District			Canton City Health District			Massillon City Health District			Stark County Health District			Total in Stark County		
	Dec	YTD 2005	2004	Dec	YTD 2005	2004	Dec	YTD 2005	2004	Dec	YTD 2005	2004	Dec	YTD 2005	2004
Number of Live Births*	40	404	384	432	3962	4081	0	1	4	13	207	223	485	4574	4692
Number of Teenage births*	5	57	65	53	430	379	0	0	0	0	21	39	58	508	483
Number of Deaths*	27	368	326	178	2092	1928	36	438	389	99	1407	1266	340	4305	3909

*These numbers represent occurrences within the jurisdiction and are not indicative of births and deaths of residents for each jurisdiction, therefore jurisdictional rates are not computed.

The 2002 Birth Rate for Stark County was 0.01266, 0.10262 for 2003 and 0.01243 for 2004. The 2002 Death Rate for Stark County was 0.01091, 0.0111 for 2003 and 0.0104 for 2004 (crude rates are based on US Census 2000 Stark County population of 377,438).

IN THE NEWS:

INFLUENZA:

Nationally: During week 3 (January 15 – January 21, 2006), influenza activity continued approximately at the same level as recent weeks in the United States. Two hundred forty-seven specimens (10.8%) tested by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories were positive for influenza. The proportion of patient visits to sentinel providers for influenza-like illness (ILI) was above the national baseline. The proportion of deaths attributed to pneumonia and influenza was below the baseline level. Five states reported widespread influenza activity; 23 states and New York City reported regional influenza activity; 9 states including Ohio and the District of Columbia reported local influenza activity; and 13 states reported sporadic influenza activity. During week 3, WHO and NREVSS laboratories reported 2,283 specimens tested for influenza viruses and 247 (10.8%) were positive. Of these, 81 were influenza A (H3N2) viruses, 159 were influenza A viruses that were not subtyped, and 7 were influenza B viruses. A full report can be found at: <http://www.cdc.gov/flu/weekly/fluactivity.htm>.

Statewide: The state of Ohio is reporting local activity, this is a step up from sporadic but below widespread.

Locally: Their have been limited cases of lab confirmed influenza. Those cases have all been type A, with the exception of one weakly positive type B. School Absentee reports indicate a slight but steady increase in Influenza-Like-Illnesses (ILI). Please remember that influenza remains a class B disease and must be reported by the close of each working week.

Avian: From the WHO Cumulative Laboratory Confirmed Human Avian Influenza Report of 1/25/2006: 152 human cases have been confirmed with 83 deaths. Human cases have been confirmed in Cambodia, China, Indonesia, Thailand, Turkey, and Viet Nam. The WHO has recently updated their Fact Sheet. The Fact Sheet provides a wealth of information from recent studies and is a comprehensive quick reference, it can be found at: http://www.who.int/csr/disease/avian_influenza/avianinfluenza_factsheetJan2006/en/index.html.

TUBERCULOSIS:

CDC Announces Prevention Guidelines for Mycobacterium Tuberculosis

In the December 30 edition of Morbidity and Mortality Weekly Report, the CDC published "Guidelines for Preventing the Transmission of Mycobacterium tuberculosis (TB) in Health-Care Settings." The report replaces the 1994 guidelines for Mycobacterium tuberculosis prevention and subsequent TB updates that focused on specific healthcare facilities. To access the guidelines refer to the following link: http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5417a1.htm?s_cid=rr5417a1_e.

Locally: Tuberculosis is reported quarterly by the Stark County TB Registrar in a report entitled Stark County: Tuberculosis Central Case Registry 2005 The registrar, Sherry Smith, makes her reports based on all cases of TB in our community and is not limited by Health Jurisdiction. The latest report reveals the following information for the whole of Stark County: there were 26 Suspect cases reported: Culture confirmed 5 as Mycobacterium Tuberculosis, further 8 were culture positive MOTTs, and 12 were Not TB Nor MOTT, one case is still pending. The Stark County Case Rate is 1.32 per 378,098 population placing Stark County in Low Risk Community classification Out of the five confirmed TB cases none of them had resistance to any of the TB drugs. No drug resistant or multi-drug resistant cases this year.

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