

**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:

**MRSA and Influenza, a deadly combination for our children-** Based on current media exposure I found the following excerpt from The Nation's Health October 2007 timely information:

Sixty-eight children died during the 2006-2007 US flu season, according to federal health officials, who issued a health advisory in May noting an increase in the number of co-occurring bacterial infections among those deadly flu cases.

Of the 68 deaths among infants and youth younger than 18 associated with influenza infections from October 1, 2006-May 19, 2007, 21 also had infections with **methicillin-resistant** or sensitive *S. aureus*. The health advisory noted that health care providers should be "alerted to the possibility of bacterial co-infection among children with influenza and request bacterial cultures when bacterial co-infection is suspected." Of the 16 children initially found to have the bacterial infection, the median age was 11, compared to 4 for the median age of all pediatric flu cases, and all were in good health before the illness but rapidly declined.

An article in the Aug. 10 *Morbidity and Mortality Weekly Report* concluded that of the 53 children ages 6 months or older who died of influenza, 94 percent had not been vaccinated.

**Tuberculosis-**The table below is a new addition to the monthly Epi Gram. It will appear on a quarterly basis with the most current information available. The Stark County TB Registrar maintains the TB data for the entire county. Currently the registrar is Leanne Frye of the Stark County Health Department.

### TB Table Stark County Tuberculosis Case Registry

|  | 1 <sup>st</sup> Quarter | 2 <sup>nd</sup> Quarter | 3 <sup>rd</sup> Quarter | 4 <sup>th</sup> Quarter | Jan. – Sep. 2007 | 2006 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|------------------|------|
| Suspects Reported:                                     | 8                       | 7                       | 7                       | N/A                     | 22               | 28   |
| Culture Confirmed Mycobacterium Tuberculosis (TB):     | 0                       | 1                       | 0                       | N/A                     | 1                | 3    |
| Culture Confirmed Mycobacterium Other Than TB (MOTTS): | 4                       | 5                       | 4                       | N/A                     | 13               | 14   |
| Not TB, Not MOTTS:                                     | 4                       | 1                       | 2                       | N/A                     | 7                | 10   |
| Suspects Pending:                                      | 0                       | 0                       | 1                       | N/A                     | 1                | 1    |

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

|                   | September 2007 |             |              |   | October 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      | 165            | 5           | 35           | N/A   | Suspended for Season |             |              |   |
| Mold Count        | 16,310         | 2,450       | 7,816        | 9 Mod, 2 High                                   |                      |             |              |   |
| Air Quality Index | 101            | 16          | 50           | 7 Mod, 1 High                                   | 36                   | 8           | 23           | All Good  |

Pollen and Mold counts are derived from rotorod samples on the 2<sup>nd</sup> 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 2<sup>nd</sup> 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**

|                 | Sep 2007 | YTD 2007 | 2006 |
|-----------------|----------|----------|------|
| Live Births     | 392      | 3723     | 4839 |
| Births to Teens | 38       | 368      | 434  |
| Deaths          | 331      | 3093     | 4061 |

**Table 3 Stark County Crude Birth and Death Rates per 100,000 Population** Rates are based on the US Census 2000 Stark County population of 377,438.

|       | 2002 | 2003 | 2004 | 2005 | 2006 |
|-------|------|------|------|------|------|
| Birth | 1270 | 1260 | 1240 | 1211 | 1282 |
| Death | 1090 | 1110 | 1040 | 1140 | 1076 |

**Table 4 – Summary of Select Reportable Diseases for September 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](http://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 |          |          |                       |
|----------------------|---------------|----------|----------|-------------|----------|----------|----------------|----------|----------|--------------|----------|----------|---------------------|----------|----------|-----------------------|
|                      | Sep 2007      | YTD 2007 | YTD 2006 | Sep 2007    | YTD 2007 | YTD 2006 | Sep 2007       | YTD 2007 | YTD 2006 | Sep 2007     | YTD 2007 | YTD 2006 | Sep 2007            | YTD 2007 | YTD 2006 | 5 Year annual average |
| Amebiasis            | 0             | 0        |          | 0           | 0        | 0        | 0              | 0        | 0        | 0            | 0        | 0        | 0                   | 0        | 0        | 0.4                   |
| Campylobacteriosis   | 0             | 3        | 1        | 1           | 8        | 9        | 0              | 1        | 4        | 3            | 28       | 28       | 4                   | 40       | 42       | 51.8                  |
| Chlamydia            | 13            | 75       | 56       | 85          | 490      | 510      | 6              | 55       | 41       | 43           | 236      | 308      | 147                 | 856      | 915      | 1126.4                |
| Creutzfeldt-Jakob Ds | 0             | 0        | 0        | 0           | 0        | 0        | 0              | 0        | 0        | 1            | 3        | 0        | 1                   | 3        | 0        | 0.6                   |
| Cryptosporidiosis    | 0             | 0        | 0        | 0           | 2        | 5        | 2              | 4        | 0        | 8            | 8        | 9        | 10                  | 14       | 14       | 14                    |
| E Coli 0157          | 0             | 0        | 0        | 0           | 0        | 1        | 0              | 0        | 0        | 1            | 1        | 1        | 1                   | 1        | 2        | 2.4                   |
| E Coli               | 0             | 0        | 1        | 0           | 0        | 0        | 0              | 0        | 0        | 0            | 1        | 1        | 0                   | 1        | 2        | 3                     |
| Enceph., WNV         | 0             | 0        | 0        | 1           | 1        | 1        | 0              | 0        | 0        | 0            | 0        | 0        | 1                   | 1        | 1        | 3.6                   |
| Enceph., Other       | 0             | 1        | 1        | 0           | 0        | 0        | 0              | 0        | 0        | 0            | 0        | 1        | 0                   | 1        | 2        | 2.8                   |
| Giardiasis           | 0             | 5        | 1        | 0           | 6        | 8        | 0              | 3        | 1        | 2            | 19       | 20       | 2                   | 33       | 30       | 49.2                  |
| Gonorrhea            | 2             | 13       | 22       | 56          | 336      | 319      | 2              | 38       | 11       | 13           | 94       | 90       | 73                  | 481      | 442      | 646                   |
| Haemo. Influz., Bac  | 0             | 0        | 0        | 0           | 1        | 1        | 1              | 1        | 0        | 0            | 0        | 2        | 1                   | 2        | 3        | 5.8                   |
| Hepatitis A          | 0             | 1        | 1        | 0           | 1        | 0        | 0              | 0        | 1        | 0            | 5        | 2        | 0                   | 7        | 4        | 8                     |
| Hepatitis B*         | 1             | 2        | 3        | 4           | 12       | 16       | 0              | 3        | 0        | 2            | 16       | 19       | 7                   | 33       | 38       | 44.6                  |
| Hepatitis C*#        | 0             | 18       | 17       | 6           | 71       | 84       | 3              | 17       | 9        | 14           | 90       | 84       | 23                  | 196      | 194      | 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        | 1           | 3        | 1        | 0              | 0        | 1        | 2            | 5        | 3        | 3                   | 8        | 5        | 12.2                  |
| Listeriosis          | 0             | 0        | 1        | 0           | 0        | 1        | 0              | 0        | 0        | 0            | 2        | 1        | 0                   | 2        | 3        | 2.4                   |
| Lyme Disease         | 0             | 0        | 0        | 0           | 0        | 0        | 0              | 0        | 0        | 0            | 0        | 1        | 0                   | 0        | 1        | 2.6                   |
| Malaria              | 0             | 0        | 0        | 0           | 0        | 0        | 0              | 0        | 0        | 0            | 0        | 0        | 0                   | 0        | 0        | 0.8                   |
| Meningitis, Asep     | 0             | 0        | 4        | 5           | 19       | 12       | 0              | 3        | 2        | 6            | 21       | 11       | 11                  | 43       | 29       | 53.8                  |
| Meningitis Bac.      | 0             | 0        | 0        | 0           | 0        | 0        | 0              | 0        | 0        | 0            | 1        | 1        | 0                   | 1        | 1        | 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        | 1        | 0                   | 0        | 1        | 0.4                   |
| Pertussis            | 0             | 0        | 0        | 0           | 2        | 0        | 0              | 0        | 0        | 0            | 5        | 8        | 0                   | 7        | 8        | 17                    |
| Salmonellosis        | 2             | 5        | 3        | 1           | 5        | 12       | 0              | 2        | 8        | 1            | 19       | 19       | 4                   | 31       | 42       | 49.4                  |
| Shigellosis          | 0             | 0        | 0        | 1           | 2        | 0        | 0              | 0        | 0        | 0            | 0        | 2        | 1                   | 2        | 2        | 11.8                  |
| Strep Inv A GAS      | 0             | 0        | 2        | 0           | 3        | 3        | 0              | 0        | 0        | 0            | 3        | 3        | 0                   | 6        | 8        | 12.2                  |
| Strep B Newborn      | 1             | 1        | 0        | 1           | 1        | 0        | 0              | 0        | 0        | 0            | 0        | 0        | 2                   | 2        | 0        | 2                     |
| Strep Pneu ISP       | 1             | 2        | 6        | 0           | 15       | 20       | 1              | 2        | 0        | 0            | 23       | 20       | 2                   | 42       | 46       | 47.8                  |
| Strep TSS            | 0             | 0        | 0        | 0           | 0        | 0        | 0              | 0        | 0        | 0            | 2        | 0        | 0                   | 2        | 0        | 0.4                   |
| Syphilis             | 0             | 0        | 0        | 2           | 2        | 0        | 0              | 0        | 0        | 0            | 7        | 9        | 2                   | 9        | 9        | 21.6                  |
| Typhoid Fever        | 0             | 0        | 0        | 0           | 0        | 0        | 0              | 0        | 0        | 0            | 0        | 1        | 0                   | 0        | 1        | 0.4                   |
| Varicella#           | 0             | 6        | 24       | 0           | 18       | 36       | 0              | 4        | 8        | 4            | 96       | 161      | 4                   | 124      | 229      |                       |
| 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              | 1        | 0        | 0            | 4        | 0        | 0                   | 5        | 0        | 2                     |

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

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