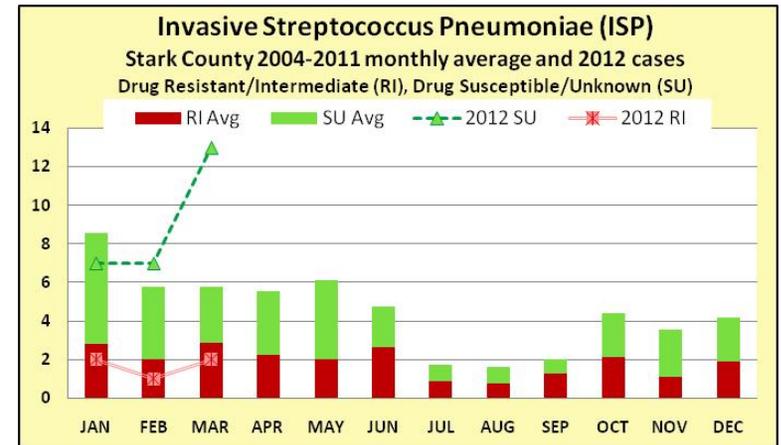


*EPI Gram* is a monthly publication of the Stark County Public Health Infrastructure Coalition. It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for Stark County, Ohio. Some reportable conditions may be under investigation and,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

### Monthly Highlight: Increase in Invasive Streptococcus Pneumoniae and First Quarter Tuberculosis Summary

**Invasive *Streptococcus Pneumoniae* (ISP):** Historically, an average of fewer than five cases of ISP are reported in Stark County in the month of March. Generally, the cases are equally divided between those that show evidence of drug resistance and those that do not. In March 2012, the number of ISP with known drug resistance are within historical norms. However, drug susceptible or unknown antibiotic resistant (SU) ISP cases were 4.5 times historical norms with total ISP cases 2.7 times higher. The last time an extreme of this level was recorded was in January, 2004.

Of note among the March cases, three were 1 year of age or less. This is significant as our annual average is less than two cases per year age one year or less. One has to look back to 2004 to find a year with 3 infant cases of SU ISP. To reduce invasive disease among this young population, a highly immunogenic Pneumococcal Conjugate Vaccine (PCV) is included in the immunization schedule. Information for PCV can be found at <http://www.cdc.gov/vaccines/pubs/pinkbook/pneumo.html>.



**Tuberculosis Summary:** Stark County confirmed one case of TB in 2012. This case is a new resident to our County and was diagnosed prior to arrival. The table to the right reflects first quarter results and are subject to change as additional information becomes available. For more information on TB in Stark County, please contact the TB Registrar at 330.493.9928.

### Stark County Tuberculosis Case Registry 1st Quarter Report 2012

Suspects Reported	10
Culture Confirmed Mycobacterium Tuberculosis (TB)	1
Culture Confirmed Mycobacterium Other Than TB (MOTTS)	4
Not TB, Not MOTTS	2
Suspects Pending	3

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

	March 2012				April 2011			
	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category
Pollen Count	580	65	165	N/A	800	1	135	N/A
Mold Count	6830	440	2010	<b>1 Moderate</b>	13,130	120	1395	<b>1 High</b>
Air Quality Index	60	12	24	<b>2 Moderate</b>	47	23	38.5	<b>All Good</b>

\*\*See the following websites for updated Air Quality Index and mold index terminology and color-coding <http://www.airnow.gov/index.cfm?action=aqibasics.aqi> [https://pollen.aaaai.org/nab/index.cfm?p=reading\\_charts](https://pollen.aaaai.org/nab/index.cfm?p=reading_charts)

Data source for this table is the Air Quality Division of the Canton City Health Department.

### Table 2 Summaries of Select Vital Statistics for Stark County

	Mar 2012	YTD 2012	2011
Live Births	374	1077	4075
Births to Teens	36	98	399
Deaths	365	1079	4110

### Table 3 Stark County Crude Birth and Death Rates

	2006	2007	2008	2009	2010
Birth	1191*	1190*	1166*	1139	1085
Death	1000*	1035*	1055*	1072	1094

\*Source: Ohio Department of Health Data Warehouse. Rates are per 100,000 population.

If you have any questions, including how to receive copies of this report, please contact Christina Henning at 330.489.3327 or [Chenning@cantonhealth.org](mailto:Chenning@cantonhealth.org) or Lauren Drinkard at 330.493.9928 or [Drinkardl@starkhealth.org](mailto:Drinkardl@starkhealth.org).

**Table 4: 2011 Jurisdictional Summary of Reportable Diseases in Stark County, OH**

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD
Brucellosis								1		1
Campylobacteriosis	1	1			1	1	2	5	4	7
Chlamydia infection	18	39	60	195	11	34	31	115	120	383
Coccidioidomycosis								1	0	1
Cryptosporidiosis	2	2			1	1	4	4	7	7
Dengue								1	0	1
Giardiasis			1	1			3	7	4	8
Gonococcal infection	5	12	30	94	11	20	11	41	57	167
Haemophilus influenzae								1	0	1
Hepatitis A	1	1		1					1	2
Hepatitis B - Perinatal Infection				1					0	1
Hepatitis B - acute			1	1					1	1
Hepatitis B (including delta) - chronic			2	4			4	4	6	8
Hepatitis C - chronic	1	8	7	18	3	8	8	28	19	62
Influenza-associated hospitalization			3	3		1	6	7	9	11
Legionellosis - Legionnaires' Disease				1			1	1	1	2
Lyme Disease							2	3	2	3
Meningitis - aseptic/viral	1	1					3	3	4	4
Meningitis - bacterial (Not N. meningitidis)				1				1	0	2
Mycobacterial disease - other than tuberculosis							2	2	2	2
Salmonellosis								6	0	6
Streptococcal - Group A -invasive				2	1	1		2	1	5
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	1	2	2	5			10	20	13	27
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate			1	2			1	3	2	5
Syphilis, Total		1			1	1			1	2
Syphilis, Primary and Secondary										
Varicella	1	1		3	1	1	1	6	3	11
Yersiniosis								1	0	1

Source: Ohio Disease Reporting System, downloaded 04/10/2012.

**Table 5 – 2011 Summary Table of Diseases Reported in the Previous 5 years within Stark County, OH.  
(Provisional Data)**

	Mar-12	YTD 2012	YTD 2011	All of 2011	5 Yr annual average	Rate
Anaplasmosis					0.2	0.05
Brucellosis		1			0	0
Campylobacteriosis	4	7	6	40	50	13.31
Chlamydia	120	383	329	1456	1269.6	338.03
Coccidioidomycosis		1			0	0
Creutzfeldt-Jakob Disease (CJD)				2	1.6	0.43
Cryptosporidiosis	7	7	6	16	21.2	5.64
Cytomegalovirus (CMV), Congenital					0.4	0.11
Dengue		1		2	0.6	0.16
Encephalitis, Post Other Infection					0.2	0.05
Encephalitis, Primary Viral					0.8	0.21
Escherichia coli , Shiga Toxin-Producing, Not O157:H7				2	1	0.27
Escherichia coli , Shiga Toxin-Producing, Unknown Serotype					1.4	0.37
Escherichia coli O157:H7				2	2	0.53
Ehrlichiosis-Ehrlichia chaffeensis				1	0.2	0.05
Giardiasis	4	8	20	62	52.2	13.9
Gonorrhea	57	167	128	613	540.4	143.88
Haemophilus influenzae , Invasive Disease		1	3	8	7	1.86
Hemolytic Uremic Syndrome (HUS)					0.6	0.16
Hepatitis A	1	2		1	2.4	0.64
Hepatitis B - Perinatal Infection		1		2	**	**
Hepatitis B, Acute	1	1	1	2	3.4	0.91
Hepatitis B, Chronic	6	8	8	23	36.4	9.69
Hepatitis C, Acute			3	6	4.2	1.12
Hepatitis C, Chronic	19	62	73	282	239.8	63.85
Hepatitis E				1	0.2	0.05
Herpes, Congenital					0.4	0.11
Influenza A - novel virus infection					0.4	0.11
Influenza-associated hospitalization	9	11	137	143	**	**
LaCrosse virus disease (other California serogroup virus disease)				1	0.6	0.16
Legionellosis	1	2		9	14.2	3.78
Listeriosis			1	2	2.4	0.64
Lyme Disease	2	3		12	4.2	1.12
Malaria				1	1.2	0.32
Meningitis, Aseptic	4	4	1	63	40.8	10.86
Meningitis, Bacterial, Not Neisseria meningitidis		2		3	2.6	0.69
Meningococcal Disease			1	1	1.2	0.32
Mumps					0.8	0.21
Mycobacterial disease - other than tuberculosis	2	2	6	23	24	6.39
Pertussis			8	11	34	9.05
Q Fever					0	0
Rheumatic Fever					0.2	0.05
Rocky Mountain Spotted Fever (RMSF)			1	2	0.6	0.16
Salmonellosis		6	4	32	36.4	9.69
Shigellosis				1	50	13.31
Streptococcal Disease, Group A, Invasive	1	5	11	22	10.6	2.82
Streptococcal Disease, Group B, in Newborn				3	3.6	0.96
Streptococcal Toxic Shock Syndrome (STSS)			2	2	1	0.27
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	13	27	15	37	30.8	8.2
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	2	5	8	17	20.2	5.38
Syphilis, Total	1	2	2	4	11.2	2.98
Syphilis, Primary and Secondary			1	2	4.2	1.12
Toxic Shock Syndrome (TSS)					0.6	0.16
Tuberculosis	1	1		2	2.6	0.69
Varicella	3	11	7	33	68.6	18.26
Vibriosis - other (not cholera)				1	0.2	0.05
Yersiniosis		1			1.2	0.32

Source: Ohio Disease Reporting System, downloaded 04/10/2012. Rates are per 100,000 population.