

Peoria County  
Sexually  
Transmitted  
Disease  
Report

2016

The 2016 Peoria County Sexually Transmitted Disease Report focuses on Chlamydia and Gonorrhea infections rates among Peoria County residents.

May 2017



**Public Health**  
Prevent. Promote. Protect.

**Peoria City/County  
Health Department**

# 2016 Peoria County Sexually Transmitted Disease Report

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## **Executive Summary**

The purpose of the 2016 Sexually Transmitted Disease (STD) Report is to describe trends of Chlamydia and Gonorrhea among Peoria County residents; specifically around gender, age, race and zip code. In addition, the report provides information on the facilities that report positive test results for both Chlamydia and Gonorrhea. Within Peoria County the high levels of STDs has been identified not only by data but also community feedback as a health priority and is included in the Peoria County 2017-2020 Community Health Improvement Plan.

### ***Key Findings***

- The incidence of both Chlamydia and Gonorrhea within Peoria County continue to be at least twice that of the state and national values.
- The rates of both STDs are greater among African American/Blacks compared their White counterparts; highlighting a strong health disparity.
- The largest rates and number of cases are among the 61603, 61604 and 61605 zip codes.
- Rates among 15-29 year olds continue be to the highest.
- Compared to 2016, there was a dramatic increase in the rate of Gonorrhea within Peoria County.
- Emergency departments account for the greatest number of positive Chlamydia and Gonorrhea tests.

## **Chlamydia Infection**

In 2016, 1,538 confirmed cases of Chlamydia infections were reported to the Peoria City/County Health Department; an overall incidence of 822.0 per 100,000 population. Women accounted for 1,040 cases or 67.6% of all Chlamydia cases; with an incidence of 1,078.1 cases per 100,000 females. Men accounted for a third of Chlamydia cases; an incidence of 546.1 cases per 100,000 men. (Table 1) The total incidence for Peoria County remains between 1.5-2.0 times greater than that of Illinois and the United States (Figure 1)

### **Geography, Age and Race**

The highest concentration of Chlamydia cases can be found within the 61603, 61604, and 61605 zip codes. These three zip codes account for 34% of the total county population but 70.2% of all cases. (Table 2) The incidence of Chlamydia ranges from 3.0 to 6.2 times greater than the incidence of the remaining population of Peoria County.

The incidence of Chlamydia infections differs greatly by age, gender and race within Peoria County. Women ages 20-24 years had the highest incidence rate of Chlamydia with the next highest age group being women 15-19 year olds. For Peoria County men, the highest incidence rate is also found among 20-24 years old, followed by men ages 25-29 years and 15-19 years. (Table 3) Peoria County rates among 15-24 years olds are nearly double those of the nation and the state. (Figure 3 & 4)

Among women, African American/Black women had an incidence rate that was 11.3 times greater than White women. This trend continues in men; with African American/Black men having an incidence rate nearly 16.6 times greater than the incidence rate of White men.

While, Table 4 gives the incidence of Chlamydia infections by gender and total population since the year 2000; Table 5 focuses on the highest reproductive age of 15-44 years.

<b>Table 1: Chlamydia - Number of Reported Cases and Incidence, Peoria County, Illinois, 2016</b>		
	Cases	Incidence per 100,000 population
<b>Total Cases</b>	1538	822.0
<b>Gender</b>		
Women	1040	1078.1
Men	495	546.1

**Table 2: Chlamydia - Number of Reported Cases and Incidence in Specific Zip Codes and Remaining County, by Age, Peoria County, Illinois, 2016**

Population	61603		61604		61605		Remaining Peoria County	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
Total	354	2110.3	361	1134.5	365	2301.5	458	373.4
15-19 y.o.	119	10749.8	113	6020.2	122	08933.9	122	1518.7
20-24 y.o.	127	8410.6	131	6749.1	139	13076.2	187	2132.0

**Table 3: Chlamydia - Number of Reported Cases and Incidence in Women and Men, by Race and Age, Peoria County, Illinois, 2016**

	Women (N=1,040)		Men (N=495)	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
<b>Race</b>				
White	234	327.9	97	144.7
African American / Black	647	3721.2	371	2406.7
Other	18	233.5	11	133.9
Unknown	141	--	17	--
<b>Age</b>				
10-14 years	13	220.9	--	--
15-19 years	368	5869.2	105	1678.7
20-24 years	413	6115.8	169	2589.2
25-29 years	130	1953.1	114	1746.6
30-34 years	66	1052.6	52	808.0
35-39 years	32	552.9	32	540.3
40-44 years	12	207.3	12	254.6
≥ 45 years	6	14.8	6	40.2

**Table 4: Chlamydia - Number of Reported Cases and Incidence among Women and Men, Peoria County, Illinois, 2000-2016**

Year	Women		Men		Total	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
2000	719	755.9	183	207.8	902	494.2
2001	636	672.0	173	195.0	809	443.7
2002	797	840.4	246	280.0	1043	570.9
2003	775	818.3	270	308.1	1045	573.1
2004	946	998.2	310	352.9	1256	687.8
2005	958	1010.0	334	379.5	1292	706.5
2006	1175	1238.4	402	453.9	1577	859.7
2007	1147	1205.8	463	520.7	1610	874.6
2008	1025	1074.9	392	438.3	1417	766.8
2009	1028	1067.7	428	472.2	1456	778.9
2010	1204	1250.9	500	554.0	1704	913.7
2011	1152	1197.0	492	543.9	1644	880.5
2012	1077	1116.5	462	508.8	1539	821.9
2013	967	996.1	438	479.5	1409	747.8
2014	1029	1066.4	453	499.9	1485	792.8
2015	1074	1112.3	496	547.2	1583	845.6
2016	1040	1078.1	495	546.1	1538	822.0

**Table 5: Chlamydia - Number of Reported Cases and Incidence among Women and Men Ages 15-44, Peoria County, Illinois, 2000-2016**

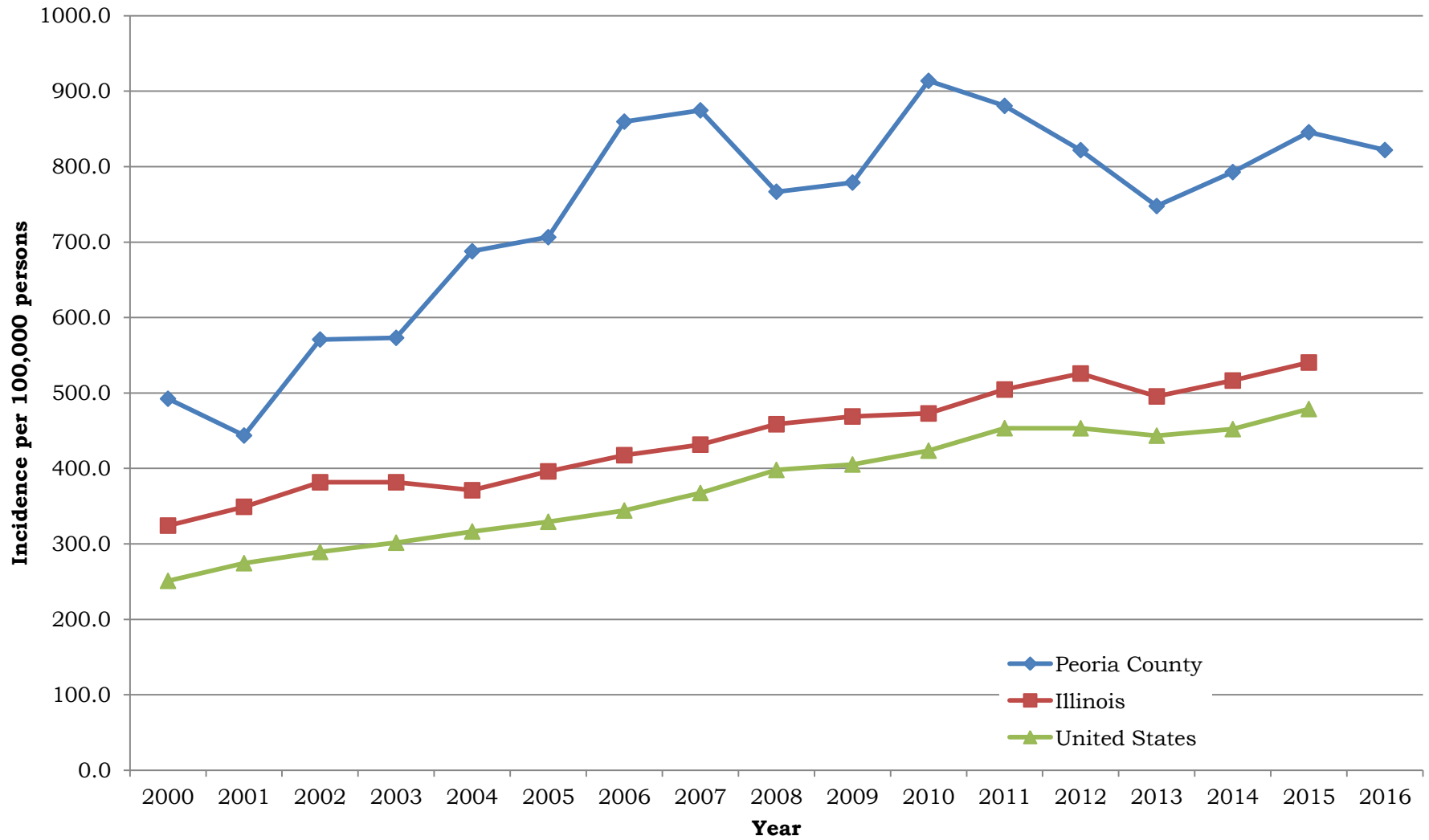
Year	Women, ages 15-44		Men, ages 15-44		Total, ages 15-44	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
2000	676	1697.6	175	462.1	851	1103.8
2001	618	1598.7	170	455.5	788	1037.1
2002	766	1993.8	242	651.8	1008	1334.3
2003	752	1981.6	261	710.9	1013	1356.8
2004	917	2421.1	304	834.1	1221	1638.4
2005	935	2478.5	322	883.0	1257	1694.3
2006	1145	3055.8	384	1046.4	1529	2061.6
2007	1118	2980.6	457	1236.3	1575	2122.6
2008	986	2631.8	379	1030.1	1365	1838.2
2009	1010	2656.5	416	1116.8	1426	1894.6
2010	1169	3089.4	491	1333.4	1660	2223.4
2011	1123	2566.2	484	1313.4	1607	2155.6
2012	1050	2785.4	453	1240.5	1503	2013.0
2013	950	2508.6	427	1159.1	1381	1835.2
2014	1008	2661.8	437	1186.2	1447	1922.9
2015	1050	2595.2	481	1389.2	1544	2051.7
2016	1021	2720.9	484	1315.1	1502	2022.0

**Table 6: Chlamydia - Number of Reported Cases and Incidence among Women and Men Ages 15-24, Peoria County, Illinois, 2000-2016**

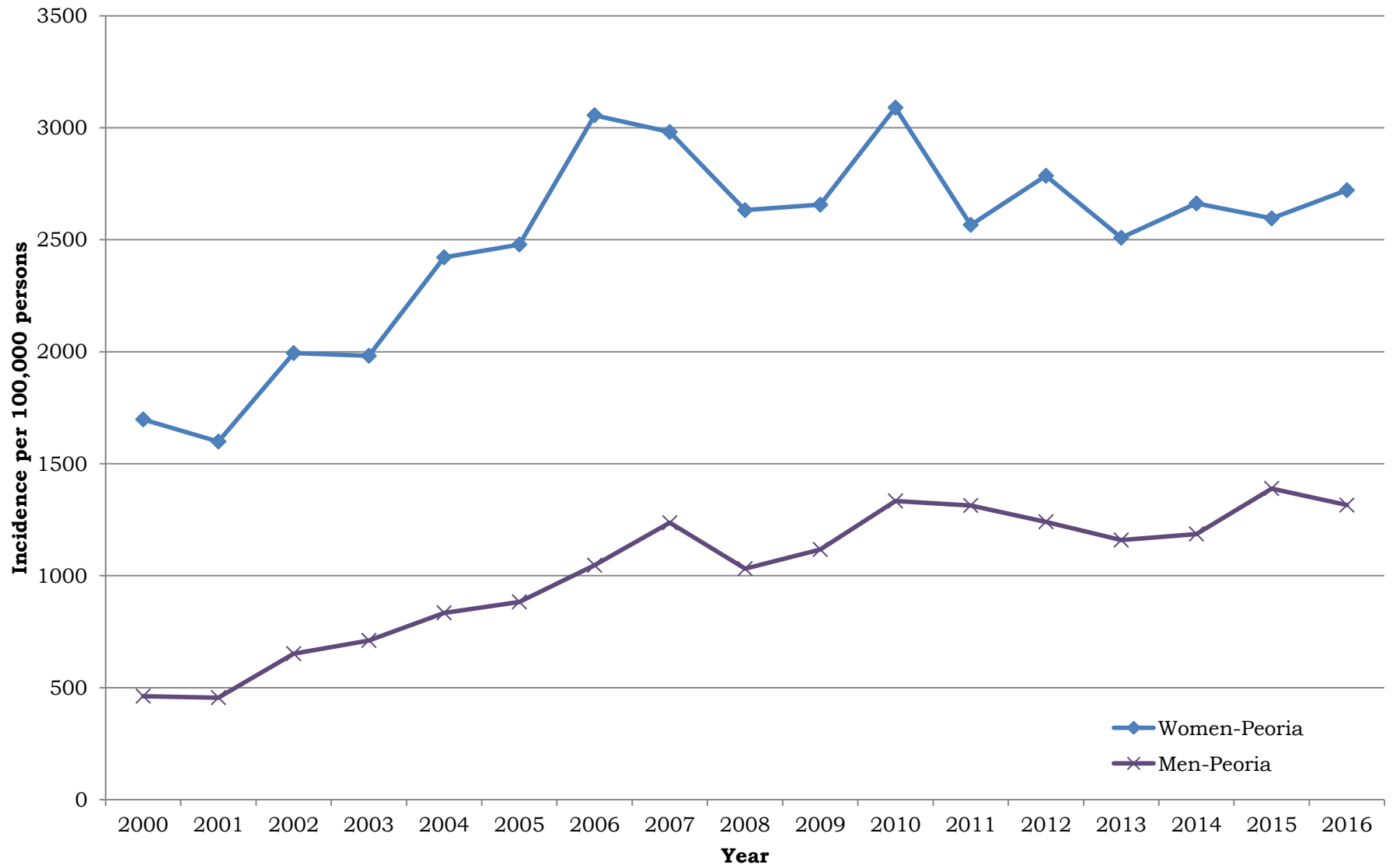
Year	Women, ages 15-24		Men, ages 15-24		Total, ages 15-24	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
2000	551	4086.6	115	868.7	666	2492.4
2001	509	3783.5	114	859.8	623	2332.3
2002	630	4668.7	155	1175.4	785	2942.2
2003	619	4621.1	171	1303.4	790	2979.4
2004	777	5855.8	217	1657.5	994	3770.7
2005	772	5781.9	221	1689.2	993	3756.4
2006	929	7013.4	276	2092.2	1205	4557.8
2007	938	7018.9	303	2296.5	1241	4672.8
2008	789	5865.7	263	1999.4	1052	3754.1
2009	831	6063.9	288	2164.6	1119	4143.1
2010	971	7092.8	358	2720.4	1329	4949.7
2011	911	6761.7	350	2691.1	1261	4762.3
2012	830	6229.8	310	2378.2	1140	4325.1
2013	737	5598.2	286	2208.5	1027	3932.6
2014	771	5856.4	286	2208.5	1059	4055.1
2015	792	5943.7	322	2501.9	1123	4285.0
2016	781	5997.1	274	2143.6	1057	4123.4



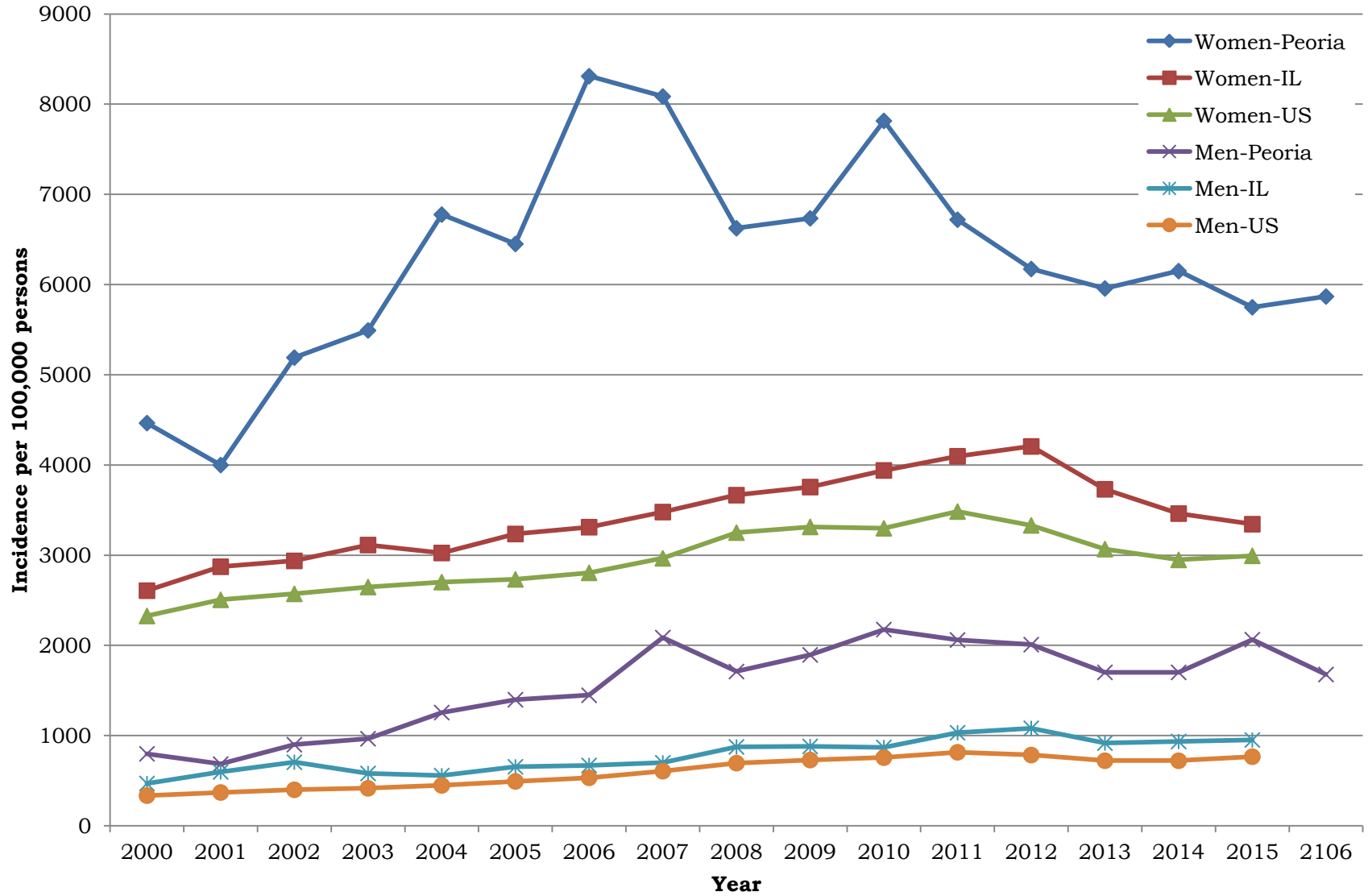
**Figure 1: Chlamydia Incidence among Total Population, 2000-2016: Peoria County, Illinois, and United States**



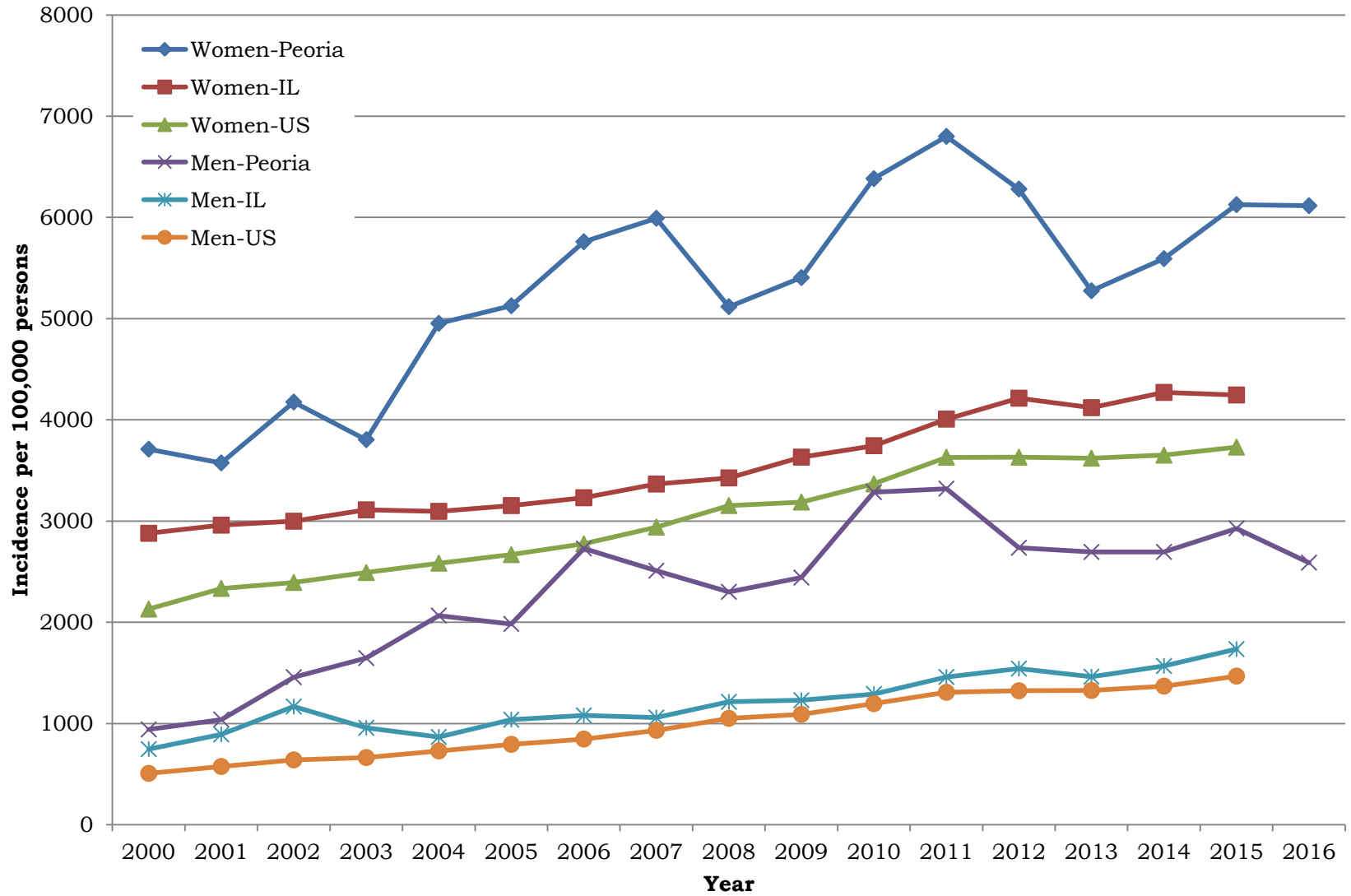
**Figure 2: Chlamydia Incidence among Women and Men Ages 15-44, 2000-2016: Peoria County**



**Figure 3: Chlamydia Incidence among Women and Men Ages 15-19, 2000-2016: Peoria County, Illinois, and United States**



**Figure 4: Chlamydia Incidence among Women and Men Ages 20-24, 2000-2016: Peoria County, Illinois, and United States**



## **Gonorrhea Infection**

In 2016, 580 confirmed cases of Gonorrhea infections were reported to the Peoria City/County Health Department; an overall incidence of 310.0 per 100,000 population. Of the 580 cases, 51.0% or 296 cases were women with an incidence of 306.8 cases per 100,000 females. Men accounted for 49.0% of Chlamydia; an incidence of 311.1 cases per 100,000 men. (Table 7 & 10) The total Gonorrhea incidence for Peoria County remains greater than that of Illinois and the United States and increased by 28.8% from 2015. (Figure 5)

### **Geography, Age and Race**

Gonorrhea infection rates differs greatly by geography, age and race within Peoria County, with those living in 61603, 61604, and 61605, ages 15-29 years and individuals reporting a race of African American/Black having the highest incidence. (Table 8 & 9)

These three zip codes account for 34% of the total county population but 81.4% of all cases. (Table 2) The incidence of Gonorrhea in 61603, 61604 and 61605 varies from 5.0 to 12.5 times greater than the incidence of the remaining population of Peoria County.

Among women, 20-24 years age group had the highest incidence rate of Gonorrhea with the next highest age group being 15-19 year old. African American/Black women had an incidence rate 16 times greater than White women. For Peoria County men, the highest incidence rate is found among 20-24 years olds followed by men ages 25-29 years. By race, African American/Black men had an incidence rate 30 times that of White men. Table 11 focuses on the highest reproductive ages of 15-44 years. Historical trend for women and men can be found in Figure 6.

As noted in Table 9, the highest incidence for both women and men were found among those ages 15-29 years. (Table 12) Peoria County rates among 15-24 years olds are more than double those of the nation and the state. (Figure 7 & 8)

**Table 7: Gonorrhea - Number of Reported Cases and Incidence, Peoria County, Illinois, 2016**

	Cases	Incidence per 100,000 population
<b>Total Cases</b>	580	310.0
<b>Gender</b>		
Women	296	306.8
Men	282	311.1

**Table 8: Gonorrhea - Number of Reported Cases and Incidence in Specific Zip Codes and Remaining County, by Age, Peoria County, Illinois, 2016**

Population	61603		61604		61605		Remaining Peoria County	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
Total	159	947.8	139	436.8	174	1097.2	108	88.1
15-19 y.o.	43	3884.4	23	1225.4	34	2552.6	17	211.6
20-24 y.o.	48	3178.8	51	2627.5	64	6020.7	35	399.0

**Table 9: Gonorrhea - Number of Reported Cases and Incidence in Women and Men, by Age and Race, Peoria County, Illinois, 2016**

	Women (N=296)		Men (N=282)	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
<b>Race</b>				
White	57	79.9	33	49.2
African American / Black	218	1253.8	231	1498.5
Other	--	--	--	--
Unknown	18	--	10	--
<b>Age</b>				
10-14 years	--	--	0	0.0
15-19 years	74	1180.2	43	687.5
20-24 years	123	1821.4	74	1133.8
25-29 years	55	826.3	70	1072.5
30-34 years	18	287.1	33	512.7
35-39 years	16	276.4	21	331.0
40-44 years	--	--	11	233.3
≥ 45 years	--	--	30	20.2

**Table 10: Gonorrhea - Number of Reported Cases and Incidence among Women and Men, Peoria County, Illinois, 2000-2016**

Year	Women		Men		Total	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
2000	361	379.5	275	312.3	636	347.2
2001	318	336.0	261	294.2	579	317.5
2002	348	366.9	280	318.7	628	343.8
2003	312	329.4	236	269.3	548	300.5
2004	313	330.3	246	280.1	559	306.1
2005	335	353.2	265	301.1	600	328.1
2006	487	513.3	313	353.4	800	436.1
2007	533	560.3	371	417.2	904	491.1
2008	456	478.2	324	362.2	780	422.1
2009	383	397.8	277	305.6	660	353.1
2010	299	310.7	220	243.8	519	278.3
2011	414	430.2	236	260.9	650	348.1
2012	385	399.1	245	269.8	630	336.4
2013	317	326.6	226	247.4	543	288.2
2014	267	276.7	181	199.7	449	240.0
2015	240	248.5	224	247.1	467	249.5
2016	296	306.8	282	311.1	580	310.0

**Table 11: Gonorrhea - Number of Reported Cases and Incidence among Women and Men Ages 15-44, Peoria County, Illinois, 2000-2016**

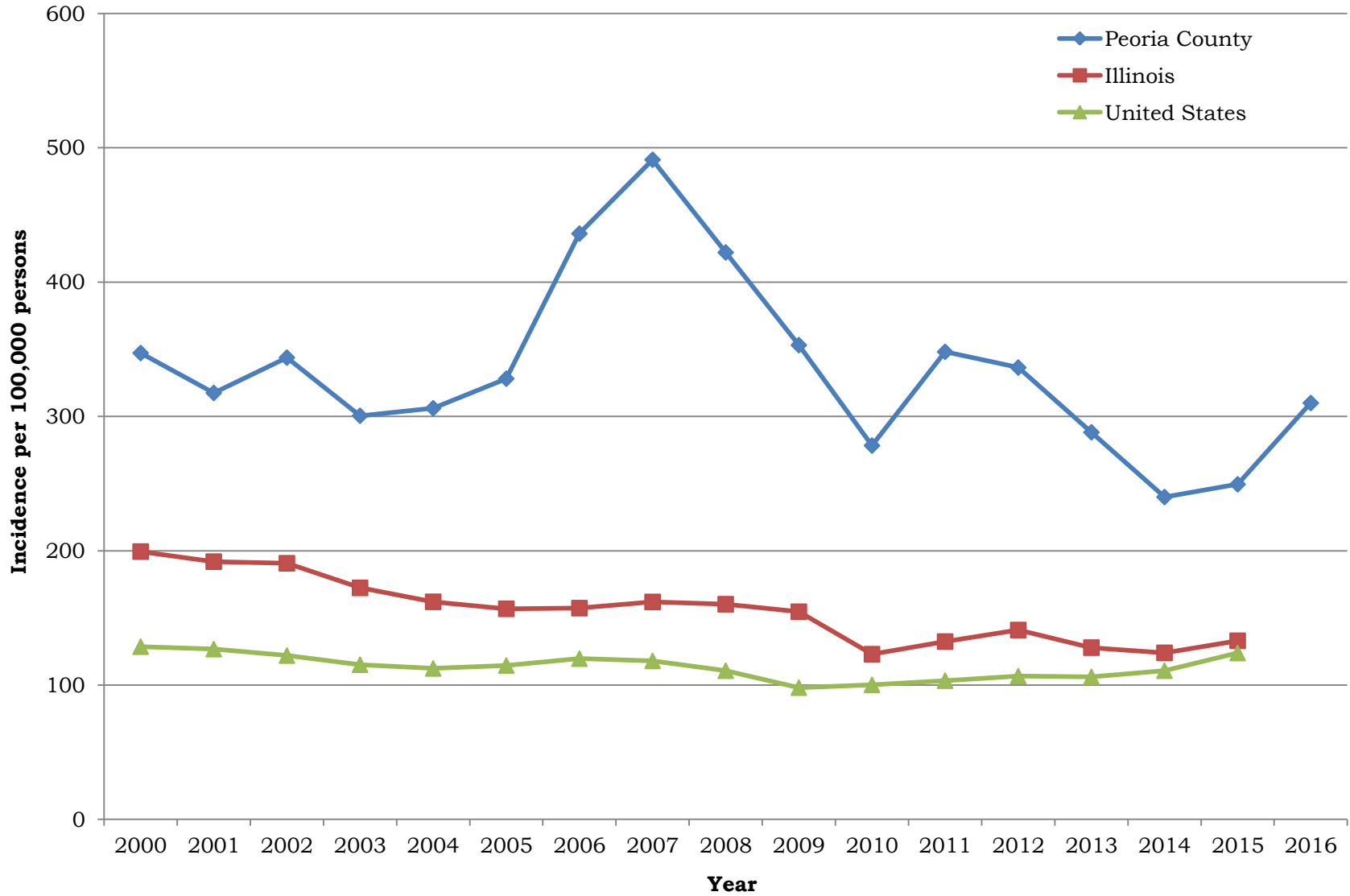
Year	Women, ages 15-44		Men, ages 15-44		Total, ages 15-44	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
2000	346	868.9	270	712.9	616	799.0
2001	309	799.4	254	680.5	563	741.0
2002	334	869.4	259	697.6	593	784.9
2003	297	782.6	227	618.3	524	701.8
2004	307	810.6	231	633.8	538	721.9
2005	331	877.4	251	688.3	582	784.5
2006	474	1264.0	292	795.7	766	1032.8
2007	517	1378.3	359	971.2	876	1180.5
2008	445	1187.8	309	839.9	754	1015.4
2009	373	981.1	263	706.1	636	845.0
2010	291	769.0	213	578.5	504	675.1
2011	408	932.3	232	629.6	640	858.5
2012	377	1000.1	239	654.5	616	825.0
2013	308	813.3	216	586.3	524	696.4
2014	262	691.9	175	475.0	438	582.1
2015	234	578.4	216	623.9	453	602.0
2016	291	775.5	252	684.7	545	733.7



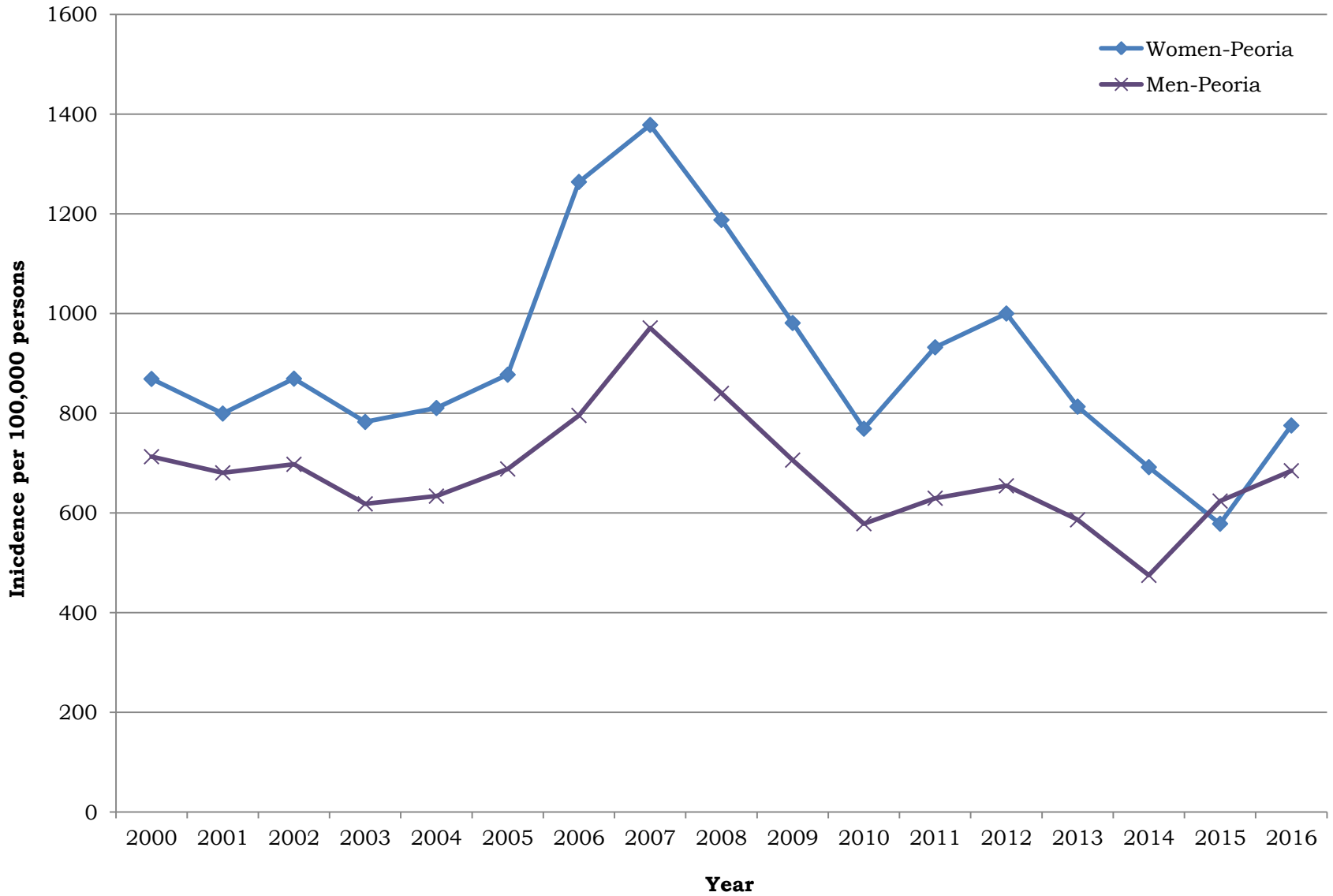
**Table 12: Gonorrhea - Number of Reported Cases and Incidence among Women and Men Ages 15-24, Peoria County, Illinois, 2000-2016**

Year	Women, ages 15-24		Men, ages 15-24		Total, ages 15-24	
	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population	Cases	Incidence per 100,000 population
2000	263	1950.6	143	1080.2	406	1519.4
2001	217	1613.0	168	1267.1	385	1441.3
2002	246	1823.0	151	1145.1	397	1488.0
2003	240	1791.7	144	1097.6	384	1448.2
2004	229	1725.8	127	970.1	356	1350.5
2005	252	1887.4	149	1138.9	401	1516.9
2006	363	2740.4	173	1311.4	536	2027.4
2007	392	2933.3	207	1568.9	599	2255.4
2008	327	2431.0	205	1558.5	532	1999.6
2009	277	2021.3	164	1232.6	441	1632.8
2010	224	1636.2	121	919.5	345	1284.9
2011	292	2167.3	147	1130.2	439	1657.9
2012	283	2124.1	145	1112.4	428	1623.8
2013	217	1648.3	127	980.7	344	1317.3
2014	195	1481.2	100	772.2	296	1133.4
2015	170	1275.8	101	784.8	274	1045.5
2016	197	1512.7	117	915.3	315	1228.8

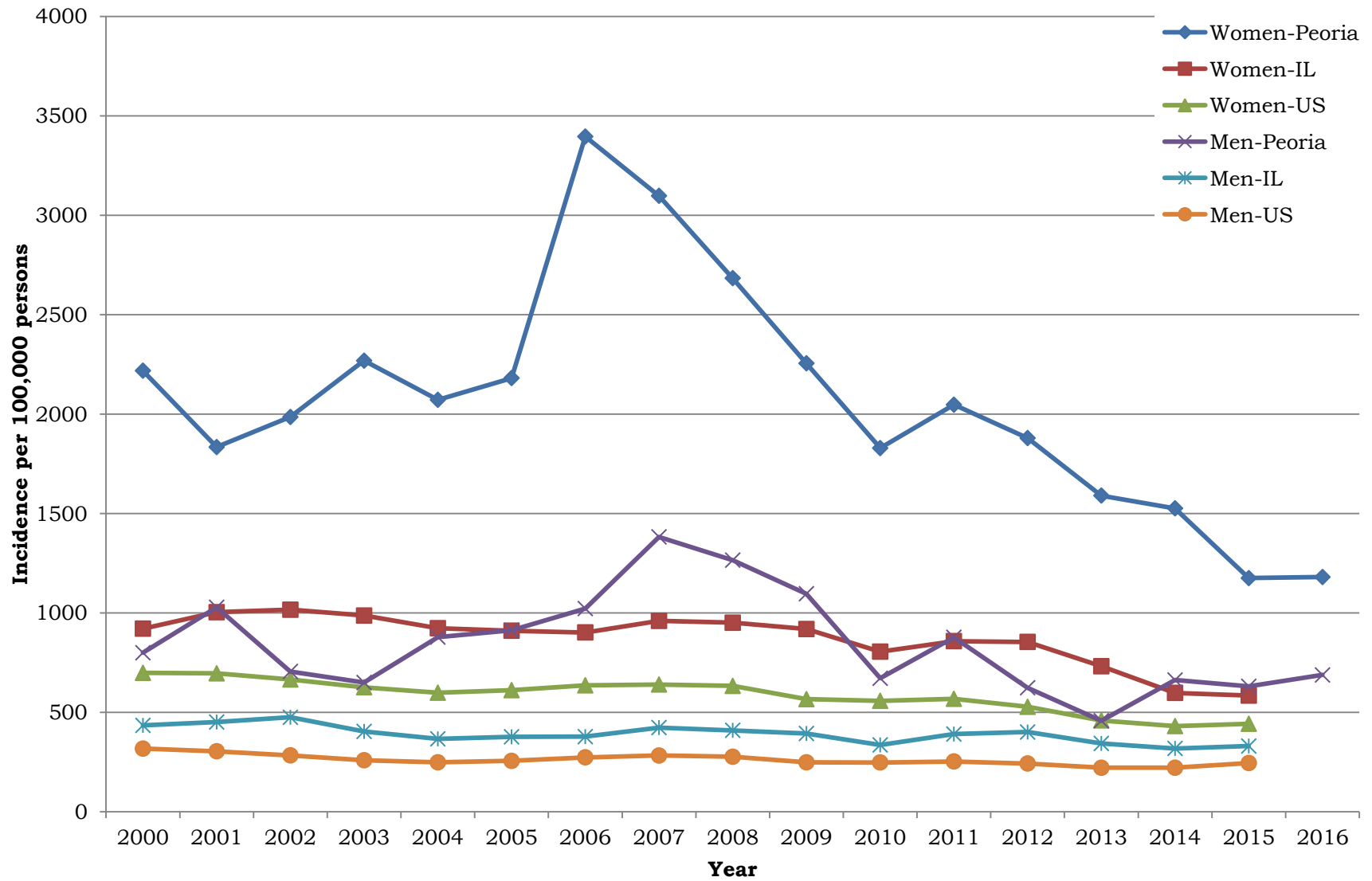
**Figure 5: Gonorrhea Incidence among Total Population, 2000-2016: Peoria County, Illinois and United States**



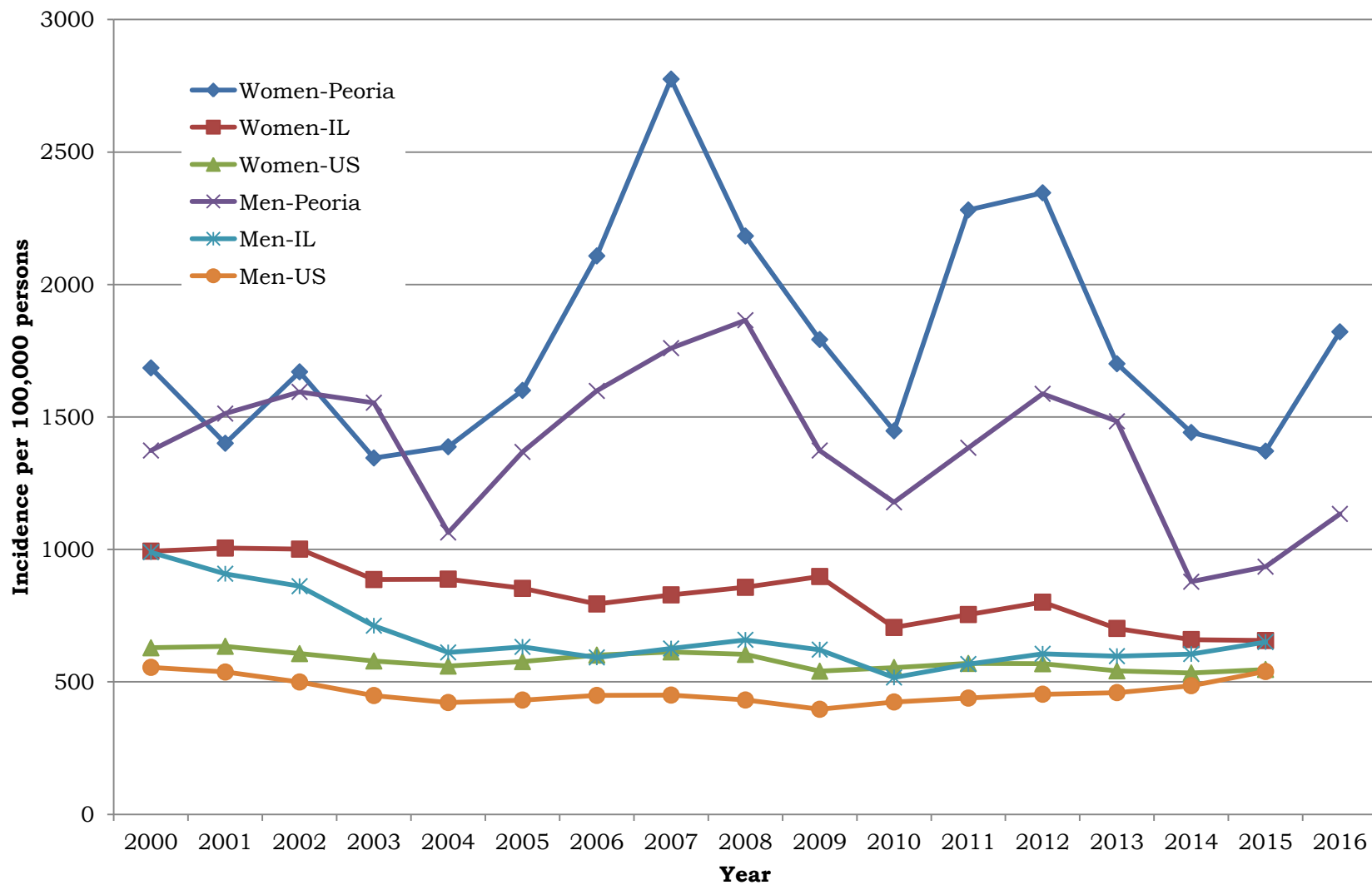
**Figure 6: Gonorrhea Incidence among Women and Men Ages 15-44, 2000-2016: Peoria County**



**Figure 7: Gonorrhea Incidence among Women and Men Ages 15-19, 2000-2016: Peoria County, Illinois and United States**



**Figure 8: Gonorrhea Incidence among Women and Men Ages 20-24, 2000-2016: Peoria County, Illinois, and United States**



## Peoria County Testing by Providers

In 2016, identification of positive Chlamydia and Gonorrhea cases were diagnosed primarily within the hospital emergency departments. Tables 13 and 14 identify testing providers by risk groups; gender, age, race, and zip code.

Of women who tested positive for Chlamydia, over 40% are identified through the Emergency Department or an OB/GYN office. Approximately 29% of African American/Blacks positive for Chlamydia were tested within the emergency departments; compared to 20% of Whites. Two out of five positive Gonorrhea patients were tested in emergency departments; more than the next three test providers combined.

**Table 13: Percentage of Utilization of Testing Sites Types for Chlamydia Testing, Peoria County, 2016**

Types	Total	Gender		Age Group			Race		Zip Code		
		Women	Men	15-19 y.o.	20-24 y.o.	25-29 y.o.	White	African American/Black	61603	61604	61605
Emergency Department	24.2	22.9	27.1	23.0	25.2	29.5	19.9	28.9	31.1	23.0	29.6
OB/GYN	13.1	19.4	0.0	10.8	14.9	11.9	11.1	5.3	9.4	10.8	14.0
Medical Groups	12.9	13.1	12.3	11.2	13.0	9.0	19.0	11.7	6.5	6.1	3.0
Planned Parenthood	12.2	14.3	7.9	15.6	11.5	9.4	17.8	11.1	12.1	12.5	11.0
PCCHD	11.1	4.1	25.8	5.7	12.0	16.4	10.2	13.0	13.8	11.4	16.4
Heartland	10.9	14.2	3.8	10.1	13.0	9.8	3.9	15.0	12.1	11.9	9.6
Ambulatory	6.4	4.1	11.1	3.4	6.3	9.0	8.4	6.3	6.5	13.6	7.7
Other	6.1	4.6	9.3	10.6	4.1	4.9	9.0	4.5	4.8	9.7	--
In-School Clinics	3.0	3.2	2.6	9.5	0.0	0.0	--	4.3	3.7	--	7.7

**Table 14: Percentage of Utilization of Testing Sites Types for Gonorrhea Testing, Peoria County, 2016**

Types	Total	Gender		Age Group			Race		Zip Code		
		Women	Men	15-19 y.o.	20-24 y.o.	25-29 y.o.	White	African American/Black	61603	61604	61605
Emergency Department	40.5	39.5	41.9	43.6	43.4	41.6	37.4	43.3	46.5	35.3	46.0
PCCHD	16.1	6.4	26.3	12.8	11.6	16.8	12.1	16.7	11.9	18.7	18.4
Ambulatory	10.9	06.8	14.9	4.3	8.6	15.2	19.8	8.7	08.8	14.4	05.2
Medical Groups	10.7	14.5	6.7	6.8	15.7	8.8	14.3	10.4	13.2	10.1	06.3
Heartland	8.4	15.5	1.1	9.4	9.6	8.0	--	9.6	09.4	05.0	12.6
Planned Parenthood	4.3	11.7	5.7	6.8	5.6	--	6.6	3.8	03.8	04.3	--
OB/GYN	4.1	7.5	8.1	--	5.1	4.0	--	2.4	--	05.8	04.0
Other	3.8	2.4	4.9	6.9	--	4.8	--	3.5	--	05.8	--
In School Clinics	1.2	--	--	6.0	0.0	0.0	0.0	1.6	--	--	--

## Partnership for a Healthy Community: Reproductive Health

In December 2016, the Peoria County Board of Health approved the Tri-County Community Health Improvement Plan (CHIP) 2017-2020. The CHIP provides a systematic approach to address health issues identified through a community-drive process. Reproductive Health is one of the four priorities to be addressed in collaboration with community partners.

The goal of the Reproductive Health priority is to **Improve and Promote Reproductive and Sexual Health of Adolescents and Young Adults.**

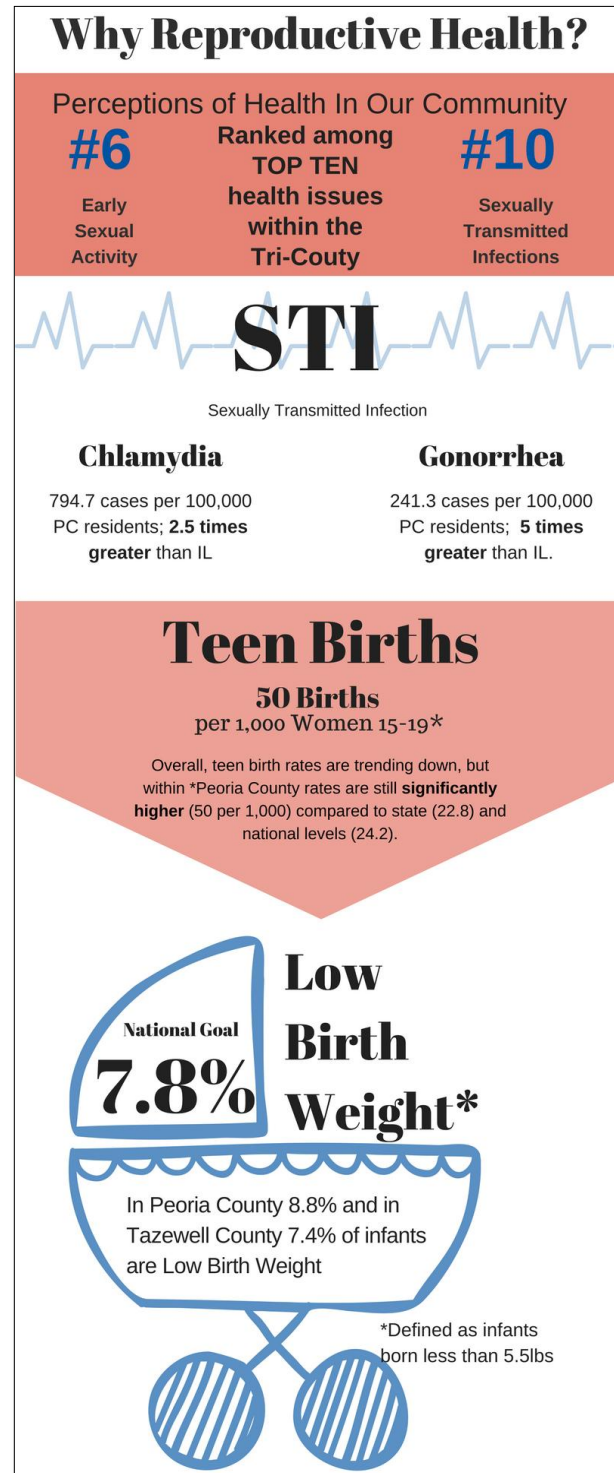
National benchmark objectives and evidence-based strategies to achieve the Reproductive Health goal are listed below.

### Objectives

- Reduction of total preterm births among Peoria County black women.
- Reduce gonorrhea rates among men and women.
- Reduce pregnancies among females age 15-19 years.

### Strategies

- Preconception care and contraception
- Service Learning Programs
- Comprehensive Risk Reduction Sexual Education
- Behavioral and Biomedical Interventions to prevent HIV and other STIs
- Parenting and Caregiver Interventions.



## **Data Sources**

### *Peoria County Chlamydia and Gonorrhea data:*

This report presents information on the cases and rates of Chlamydia infection and Gonorrhea infection within Peoria County. Both of these diseases are notifiable reportable diseases in Illinois. By law, both private and public facilities must report confirmed cases to the local public health jurisdiction. The Peoria City/County Health Department investigates and conducts follow-up for treatment of both Chlamydia and Gonorrhea before submission to the Illinois Department of Public Health. The case values utilized in the report are for the year 2016. Once finalized data has been processed by the Illinois Department of Public Health and validated by the Centers for Disease Control and Prevention, an updated report will be published.

### *Population data:*

Incidence rates were calculated using population estimates from U.S. Census American Community Survey 5-year estimates. Information includes estimates on total population, gender, race, and age groups for Peoria County, Illinois, United States and specific zip codes.

### *Data limitations:*

It is important to note that cases are reported only among positive tests, thus rates are under-reported as not all physicians necessarily test. In addition, rates among women are higher as standard screening and testing practices comply with national recommendations than are available for men.

### *Partnership for a Health Community*

Additional information including data and improvement planning can be found at [www.healthyhoi.com](http://www.healthyhoi.com).

For additional information, please contact:

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