



Public Health
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Shelby County Health Department

Shelby County Health Department
Epidemiology Program

**HIV Disease and STD Annual Surveillance Summary
2014**

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Shelby County HIV/AIDS and STD Annual Surveillance Statistics, 2014

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Table 1: New HIV Disease Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	326	35.2	351	37.6	381	40.5	301	32.1	287	30.6
Sex										
Male	239	54.0	248	55.7	267	59.5	225	50.3	209	46.7
Female	87	18.0	103	21.1	114	23.2	76	15.5	78	15.9
Age at Diagnosis										
0 to 9	*	*	*	*	*	*	*	*	*	*
10 to 14	0	0.0	*	*	0	0.0	0	0.0	*	*
15 to 19	19	† 26.5	26	36.7	28	40.7	17	† 25.5	26	39.0
20 to 24	60	90.3	70	101.2	80	111.6	77	107.9	64	89.7
25 to 34	98	75.6	76	57.7	101	76.0	90	67.6	80	60.1
35 to 44	64	51.3	78	63.2	63	51.2	43	35.3	51	41.9
45 to 54	56	42.2	74	56.5	55	42.8	50	39.7	35	27.8
55 to 64	26	24.7	18	† 16.3	46	40.6	16	† 14.0	19	† 16.6
65+	*	*	5	† 5.2	*	*	*	*	9	† 8.6
Race/Ethnicity										
White, Not Hispanic	16	† 4.5	28	7.8	45	12.7	25	7.1	32	9.1
Black, Not Hispanic	283	58.8	293	60.6	305	62.3	247	50.0	234	47.4
Hispanic, All Races	15	† 28.8	10	† 18.4	12	† 21.6	9	† 16.3	8	† 14.5
Other Race, Not Hispanic	12	† 34.3	20	55.4	19	† 47.6	20	54.3	13	† 35.3
Exposure Category	N	%	N	%	N	%	N	%	N	%
Male-to-male sex (MSM)	101	31%	120	34%	105	28%	160	53%	139	48%
Heterosexual Contact	93	29%	107	30%	89	23%	96	32%	107	37%
MSM & IDU	*	*	*	*	*	*	*	*	*	*
Injection drug use (IDU)	0	0%	*	*	0	0%	0	0%	0	0%
Perinatal Exposure	*	*	*	*	*	*	*	*	*	*
Hemophilia/blood	0	0%	*	*	0	0%	0	0%	0	0%
Not Reported/Identified	131	40%	117	33%	186	49%	44	15%	37	13%

Morbidity based on date of diagnosis. HIV disease cases include persons with a new diagnosis of HIV infection, which may include persons concurrently diagnosed with AIDS. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Rates among exposure category cannot be calculated, as population denominator data is unknown. Data exported July 1, 2015 from EHARS. † Rate is based on fewer than 20 events and therefore considered to be unreliable

Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 2: New HIV Disease Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Male Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	239	54.0	248	55.7	267	59.5	225	50.3	209	46.7
Age at Diagnosis										
0 to 9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10 to 14	*	*	*	*	0	0.0	0	0.0	0	0.0
15 to 19	15	†41.5	19	†53.4	22	63.0	*	*	23	68.1
20 to 24	51	155.6	60	175.0	69	194.1	70	197.3	55	155.1
25 to 34	77	123.0	57	90.0	78	121.6	71	110.4	63	97.9
35 to 44	37	62.0	52	87.4	38	64.3	28	46.4	33	54.7
45 to 54	39	62.8	44	72.4	29	48.2	29	49.4	19	†32.4
55 to 64	18	†36.6	12	†23.5	26	49.8	8	†15.4	11	†21.1
65+	*	*	*	*	5	†12.3	*	*	5	†11.7
Race/Ethnicity										
White, Not Hispanic	16	†9.2	24	13.8	41	23.7	21	12.3	22	12.9
Black, Not Hispanic	204	91.8	205	91.3	202	88.9	179	78.0	172	74.9
Hispanic, All Races	11	†37.9	6	†20.2	12	†39.2	8	†26.5	7	†23.2
Other Race, Not Hispanic	8	†47.5	13	†80.9	12	†66.6	17	†104	8	†49.0
Exposure Category										
	N	%	N	%	N	%	N	%	N	%
Male-to-male sex (MSM)	101	42%	120	48%	105	39%	160	71%	139	67%
Heterosexual contact	30	13%	37	15%	15	6%	25	11%	38	18%
MSM & IDU	*	*	*	*	*	*	*	*	*	*
Injection drug use (IDU)	*	*	0	0%	0	0%	*	*	0	0%
Perinatal Exposure	0	0%	*	*	*	*	0	0%	*	*
Not Reported/Identified	108	45%	88	35%	147	55%	40	18%	31	15%

Morbidity based on date of diagnosis. HIV disease cases include persons with a new diagnosis of HIV infection, which may include persons concurrently diagnosed with AIDS. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Rates among exposure category cannot be calculated, as population denominator data is unknown. Data exported July 1, 2015 from EHARS. † Rate is based on fewer than 20 events and therefore considered to be unreliable. Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 3: New HIV Disease Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Female Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	87	18.0	103	21.1	114	23.2	76	15.5	78	15.9
Age at Diagnosis										
0 to 9	*	*	*	*	*	*	*	*	*	*
10 to 14	0	0.0	0	0.0	0	0.0	0	0.0	*	*
15 to 19	*	*	7	† 19.8	6	† 17.7	*	*	*	*
20 to 24	9	† 26.8	10	† 28.7	11	† 30.5	7	† 19.5	9	† 25.1
25 to 34	21	31.3	19	† 27.8	23	33.5	19	† 27.6	17	† 24.7
35 to 44	27	41.4	26	40.6	25	39.1	15	† 23.7	18	† 28.5
45 to 54	17	† 24.1	30	42.8	26	38.0	21	31.3	16	† 23.9
55 to 64	8	† 12.0	6	† 10.2	20	32.8	8	† 13.0	8	† 13.0
65+	0	0.0	*	*	*	*	*	*	*	*
Race/Ethnicity										
White, Not Hispanic	0	0.0	*	*	*	*	*	*	10	† 5.6
Black, Not Hispanic	79	30.5	88	33.8	103	39.1	68	25.5	62	23.3
Hispanic, All Races	*	*	*	*	*	*	*	*	*	*
Other Race, Not Hispanic	*	*	7	† 38.1	7	† 34.7	*	*	5	† 27.5
Exposure Category										
	N	%	N	%	N	%	N	%	N	%
Heterosexual contact	63	72%	70	68%	74	65%	71	93%	69	89%
Injection drug use (IDU)	*	*	*	*	*	*	0	0%	*	*
Perinatal Exposure	*	*	*	*	*	*	*	*	*	*
Hemophilia/blood	0	0%	*	*	0	0%	0	0%	0	0%
Not Reported/Identified	23	26%	29	28%	39	34%	*	*	6	8%

Morbidity based on date of diagnosis. HIV disease cases include persons with a new diagnosis of HIV infection, which may include persons concurrently diagnosed with AIDS. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Rates among exposure category cannot be calculated, as population denominator data is unknown. Data exported July 1, 2015 from EHARS. † Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 4: New HIV Disease Cases and 3-Year Aggregated Rates (per 100,000 population) by Zip Code, Shelby County Residents, 2010-2014

Zip Code	2010 N	2011 N	2012 N	2013 N	2014 N	2010-2012 Rate	2011-2013 Rate	2012-2014 Rate
38002	*	*	*	*	*	† 4.3	† 5.9	† 5.9
38016	5	7	7	7	6	† 14.7	16.6	15.8
38017	*	*	*	5	5	† 4.1	† 6.2	† 7.5
38018+38028	*	*	5	*	*	† 7.9	† 9.4	† 8.7
38053	5	*	*	*	*	*	*	*
38103+38104+38105	23	23	44	24	27	71.8	71.2	74.3
38106+38126	37	29	31	19	19	93.6	82.7	72.2
38107+38108	37	25	30	21	20	84.2	71.8	67.1
38109	27	30	28	31	32	60.8	61.6	63.0
38111	11	18	22	17	15	40.7	43.5	41.2
38112+38122	17	16	18	9	19	39.8	34.6	37.0
38114	14	27	21	21	17	76.8	81.5	69.7
38115	22	22	31	25	23	63.9	62.3	63.1
38116	20	35	24	19	14	65.2	61.9	45.2
38117	5	*	7	0	*	*	*	*
38118	19	25	18	14	9	49.8	44.6	32.1
38119+38120	6	3	9	6	*	† 16.4	† 16.0	† 15.1
38125	11	13	18	10	12	38.7	36.2	35.3
38127	25	22	22	15	19	50.8	43.6	41.4
38128	13	15	15	22	11	31.9	39.8	36.7
38133	*	*	*	*	5	† 6.4	† 6.5	† 13.1
38134	8	9	14	10	7	24.6	25.4	23.9
38135	*	5	*	*	*	*	*	*
38138+38139	*	*	0	0	*	*	*	*
38141	10	7	8	9	7	37.1	35.6	35.6
Other	*	*	0	*	*	...	...	...
Total	326	351	381	301	287	38.0	36.9	34.6

Morbidity based on date of diagnosis. HIV disease cases include persons with a new diagnosis of HIV infection, which may include persons concurrently diagnosed with AIDS. Case counts of less than five have been suppressed. "Other" includes PO Boxes, unique addresses and unknown zip codes. Data exported July 1, 2015 from EHARS. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 5: New AIDS Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	293	31.6	249	26.7	226	24.1	311	33.2	191	20.4
Sex										
Male	200	45.2	169	38.0	144	32.1	207	46.2	133	29.7
Female	93	19.2	80	16.4	82	16.7	104	21.2	58	11.9
Age at Diagnosis										
0 to 9	0	0.0	*	*	*	*	*	*	7	†5.2
10 to 14	0	0.0	0	0.0	0	0.0	*	*	6	†9.2
15 to 19	*	*	7	†9.9	*	*	44	66.0	24	36.0
20 to 24	32	48.2	22	31.8	16	†22.4	91	127.5	38	53.3
25 to 34	66	50.9	53	40.3	59	44.4	52	39.1	38	28.6
35 to 44	91	72.9	58	47.0	63	51.2	52	42.7	37	30.4
45 to 54	67	50.5	60	45.8	52	40.5	40	31.8	20	15.9
55 to 64	22	20.9	28	25.4	22	19.5	16	†14.0	16	†14.0
65+	8	†8.5	7	†7.2	*	*	*	*	*	*
Missing	*	...	*	...	8	...	7	...	*	...
Race/Ethnicity										
White, Not Hispanic	27	7.6	16	†4.5	22	6.2	20	5.7	10	†2.9
Black, Not Hispanic	251	52.2	216	44.7	192	39.3	210	42.5	147	29.8
Hispanic, All Races	*	*	8	†14.7	6	†10.8	12	†21.7	*	*
Other Race, Not Hispanic	*	*	9	†25.0	6	†15.1	69	187.3	*	*
Exposure Category	N	%	N	%	N	%	N	%	N	%
Male-to-male sex (MSM)	94	32%	80	32%	69	31%	127	41%	77	40%
Heterosexual Contact	106	36%	87	35%	68	30%	90	29%	62	33%
MSM & IDU	*	*	*	*	*	*	*	*	*	*
Injection drug use (IDU)	5	2%	*	*	*	*	*	*	*	*
Perinatal Exposure	0	0%	*	*	*	*	20	6%	17	9%
Hemophilia/blood	*	*	0	0%	0	0%	*	*	0	0%
Not Reported/Identified	86	29%	74	30%	83	37%	68	22%	33	17%

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Rates among exposure category cannot be calculated, as population denominator data is unknown. Data exported July 1, 2015 from EHARS. † Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 6: New AIDS Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Male Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	200	45.2	169	38.0	144	32.1	207	46.2	133	29.7
Age at Diagnosis										
0 to 9	0	0.0	0	0.0	0	0.0	*	*	*	*
10 to 14	0	0.0	0	0.0	0	0.0	*	*	*	*
15 to 19	0	0.0	*	*	*	*	30	88.8	20	59.2
20 to 24	25	76.3	19	†55.5	16	†45.0	65	183.2	32	90.2
25 to 34	49	78.3	33	52.1	39	60.8	36	56.0	28	43.6
35 to 44	55	92.1	39	65.6	34	57.5	30	49.7	24	39.8
45 to 54	45	72.5	39	64.2	29	48.2	26	44.3	16	†27.3
55 to 64	17	†34.5	20	39.1	16	†30.7	12	†23.0	7	†13.4
65+	6	†15.9	5	†12.8	*	*	*	*	*	*
Missing	3	...	*	...	6	...	4	...	1	...
Race/Ethnicity										
White, Not Hispanic	22	12.7	15	†8.6	20	11.6	14	†8.2	9	†5.3
Black, Not Hispanic	168	75.6	141	62.8	114	50.2	139	60.6	103	44.9
Hispanic, All Races	*	*	5	†16.8	5	†16.4	10	†33.1	*	*
Other Race, Not Hispanic	*	*	8	†49.8	5	†27.8	44	269.2	*	*
Exposure Category										
	N	%	N	%	N	%	N	%	N	%
Male-to-male sex (MSM)	94	47%	80	47%	69	48%	127	61%	77	58%
Heterosexual Contact	42	21%	31	18%	19	13%	20	10%	22	17%
MSM & IDU	*	*	*	*	*	*	*	*	*	*
IDU	*	*	*	*	*	*	*	*	*	*
Injection drug use (IDU)	0	0%	0	0%	0	0%	8	4%	6	5%
Infected blood products	*	*	0	0%	0	0%	*	*	0	0%
Not Reported/Identified	60	30%	53	31%	54	38%	47	23%	26	20%

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Rates among exposure category cannot be calculated, as population denominator data is unknown. Data exported July 1, 2015 from EHARS. † Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 7: New AIDS Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Female Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	93	19.2	80	16.4	82	16.7	104	21.2	58	11.9
Age at Diagnosis										
0 to 9	0	0.0	*	*	*	*	*	*	6	†9.1
10 to 14	0	0.0	0	0.0	0	0.0	*	*	*	*
15 to 19	*	*	*	*	0	0.0	14	†42.6	*	*
20 to 24	7	†20.8	*	*	0	0.0	26	72.4	6	†16.8
25 to 34	17	†25.4	20	29.3	20	29.1	16	†23.3	10	†14.6
35 to 44	36	55.2	19	†29.7	29	45.3	22	34.8	13	†20.6
45 to 54	22	31.1	21	29.9	23	33.6	14	†20.9	*	*
55 to 64	5	†7.5	8	†13.5	6	†9.9	*	*	9	†14.6
65+	*	*	*	*	0	0.0	*	*	*	*
Missing	3	...	2	...	*	...	3	...	0	0.0
Race/Ethnicity										
White, Not Hispanic	5	†2.8	*	*	*	*	6	†3.4	*	*
Black, Not Hispanic	83	32.1	75	28.8	78	29.6	71	26.6	44	16.5
Hispanic, All Races	*	*	*	*	*	*	*	*	*	*
Other Race, Not Hispanic	*	*	*	*	*	*	25	137.5	12	†66.0
Exposure Category										
	N	%	N	%	N	%	N	%	N	%
Heterosexual contact	64	69%	56	70%	49	60%	70	67%	40	69%
Injection drug use (IDU)	*	*	*	*	*	*	0	0%	*	*
Perinatal Exposure	*	*	*	*	*	*	*	*	*	*
Hemophilia/blood	0	0%	0	0%	0	0%	*	*	0	0%
Not Reported/Identified	26	28%	21	26%	29	35%	21	20%	7	12%

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Rates among exposure category cannot be calculated, as population denominator data is unknown. Data exported July 1, 2015 from EHARS. † Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 8: People Living with HIV/AIDS and Rates (per 100,000 population) by Selected Characteristics, Shelby County Residents, as of December 31, 2014

	Living with HIV		Living with AIDS		Living with HIV or AIDS	
	N	Rate	N	Rate	N	Rate
TOTAL	3,128	333.0	3,092	329.2	6,220	662.1
Sex						
Male	2,096	467.8	2,140	477.6	4,236	945.3
Female	1,032	210.1	952	193.8	1,984	403.8
Current Age						
0 to 9	*	*	12	† 8.9	13	† 9.7
10 to 14	10	† 15.4	11	† 16.9	21	32.2
15 to 19	*	*	42	63.0	49	73.5
20 to 24	139	194.7	166	232.6	305	427.3
25 to 34	876	657.6	438	328.8	1,314	986.4
35 to 44	810	664.8	801	657.4	1,611	1,322.2
45 to 54	790	627.0	969	769.1	1,759	1,396.1
55 to 64	385	335.7	531	463.0	916	798.7
65+	110	104.4	122	115.8	232	220.1
Race/Ethnicity						
White, Not Hispanic	365	103.5	330	93.6	695	197.1
Black, Not Hispanic	2,670	540.1	2,532	512.2	5,202	1,052.2
Hispanic, All Races	68	122.6	80	144.2	148	266.7
Other Race, Not Hispanic	25	67.9	150	407.0	175	474.8
Exposure Category						
	N	%	N	%	N	%
Male-to-male sex (MSM)	1,184	38%	1,306	42%	2,490	40%
Heterosexual Contact	990	32%	971	31%	1,961	32%
MSM & IDU	31	1%	48	2%	79	1%
Injection drug use (IDU)	66	2%	114	4%	180	3%
Perinatal Exposure	19	1%	49	2%	68	1%
Hemophilia/blood	10	0%	15	1%	25	0%
Not Reported/Identified	828	26%	589	19%	1,417	23%

Note: This represents the number of persons reported to be currently living with HIV or AIDS in Shelby County as of December 31, 2014. Data exported July 1, 2015 from EHARS. Rates among exposure category cannot be calculated because population denominator data is unknown. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. . † Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimates (2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 9: People Living with HIV/AIDS and Rates (per 100,000 population) by Selected Characteristics, Shelby County Male Residents, as of December 31, 2014

	Living with HIV		Living with AIDS		Living with HIV or AIDS	
	N	Rate	N	Rate	N	Rate
TOTAL	2,096	467.8	2,140	477.6	4,236	945.3
Current Age						
0 to 9	*	*	*	*	*	*
10 to 14	5	†15.2	*	*	*	*
15 to 19	*	*	31	91.8	35	103.6
20 to 24	118	332.6	122	343.9	240	676.5
25 to 34	629	977.3	299	464.6	928	1,441.9
35 to 44	490	811.0	486	804.4	976	1,615.4
45 to 54	524	890.9	716	1,217.3	1,240	2,108.2
55 to 64	259	495.5	395	755.6	654	1,251.0
65+	66	153.7	88	204.9	154	358.5
Race/Ethnicity						
White, Not Hispanic	291	169.5	287	167.2	578	336.6
Black, Not Hispanic	1,736	755.7	1,693	737.0	3,429	1,492.7
Hispanic, All Races	51	168.4	61	201.4	112	369.7
Other Race, Not Hispanic	18	†110.2	99	605.7	117	715.8
Exposure Category						
	N	%	N	%	N	%
Male-to-male sex (MSM)	1,184	56%	1,306	61%	2,490	59%
Heterosexual Contact	268	13%	286	13%	554	13%
MSM & IDU	31	1%	48	2%	79	2%
Injection drug use (IDU)	43	2%	65	3%	108	3%
Perinatal Exposure	9	0%	16	1%	25	1%
Hemophilia/blood	7	0%	12	1%	19	0%
Not Reported/Identified	554	26%	407	19%	961	23%

Note: This represents the number of persons reported to be currently living with HIV or AIDS in Shelby County as of December 31, 2014. Data exported July 1, 2015 from EHARS. Rates among exposure category cannot be calculated because population denominator data is unknown. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. . † Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimates (2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 10: People Living with HIV/AIDS and Rates (per 100,000 population) by Selected Characteristics, Shelby County Female Residents, as of December 31, 2014

	Living with HIV		Living with AIDS		Living with HIV or AIDS	
	N	Rate	N	Rate	N	Rate
TOTAL	1,032	210.1	952	193.8	1,984	403.8
Current Age						
0 to 9	0	0.0	11	† 16.6	11	† 16.6
10 to 14	*	*	9	† 28.0	14	† 43.5
15 to 19	*	*	11	† 33.5	14	† 42.6
20 to 24	21	58.5	44	122.6	65	181.0
25 to 34	247	358.8	139	201.9	386	560.6
35 to 44	320	505.0	315	497.1	635	1,002.1
45 to 54	266	396.0	253	376.7	519	772.6
55 to 64	126	203.7	136	219.9	262	423.5
65+	44	70.5	34	54.5	78	124.9
Race/Ethnicity						
White, Not Hispanic	74	40.9	43	23.8	117	64.7
Black, Not Hispanic	934	349.9	839	314.3	1,773	664.1
Hispanic, All Races	17	† 67.5	19	† 75.4	36	142.9
Other Race, Not Hispanic	7	† 38.5	51	280.3	58	318.8
Exposure Category						
	N	%	N	%	N	%
Heterosexual contact	722	70%	685	72%	1,407	71%
Injection drug use (IDU)	23	2%	49	5%	72	4%
Perinatal Exposure	*	*	*	*	43	2%
Hemophilia/blood	*	*	*	*	6	0%
Not Reported/Identified	274	27%	182	19%	456	23%

*Note: This represents the number of persons reported to be currently living with HIV or AIDS in Shelby County as of December 31, 2014. Data exported July 1, 2015 from EHARS. Rates among exposure category cannot be calculated because population denominator data is unknown. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. . † Rate is based on fewer than 20 events and therefore considered to be unreliable.
Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimates (2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.*

Table 11: People Living with HIV/AIDS and Rates (per 100,000 population) by Zip Code, Shelby County Residents, as of December 31, 2014

Zip Code	Living with HIV		Living with AIDS		Living with HIV or AIDS	
	N	Rate	N	Rate	N	Rate
38002	*	*	*	*	20	50.7
38016	47	111.7	45	106.9	92	218.6
38017	*	*	22	45.3	38	78.2
38018+38028	51	120.4	33	77.9	84	198.3
38053	21	74.4	28	99.2	49	173.6
38103+38104+38105	302	708.8	318	746.3	620	1,455.1
38106+38126	189	593.4	231	725.3	420	1,318.6
38107+38108	206	583.8	240	680.1	446	1,263.8
38109	193	400.7	227	471.3	420	872.0
38111	122	279.1	120	274.5	242	553.5
38112+38122	146	352.8	162	391.5	308	744.3
38114	115	407.6	149	528.1	264	935.7
38115	164	393.2	135	323.7	299	716.9
38116	156	371.3	176	418.9	332	790.2
38117	31	117.0	32	120.8	63	237.7
38118	114	267.4	142	333.1	256	600.4
38119+38120	42	112.3	43	114.9	85	227.2
38125	72	190.7	86	227.8	158	418.4
38127	146	324.0	190	421.6	336	745.5
38128	124	284.8	128	294.0	252	578.7
38133	*	*	*	*	28	137.5
38134	98	226.6	88	203.5	186	430.0
38135	25	86.7	33	114.4	58	201.1
38138+38139	*	*	*	*	22	54.8
38141	53	236.1	67	298.4	120	534.5
Other	658	...	364	...	1,022	...
Total	3,128	333.0	3,092	329.2	6,220	662.1

Morbidity based on date of diagnosis. HIV disease cases include persons with a new diagnosis of HIV infection, which may include persons concurrently diagnosed with AIDS. Case counts of less than five have been suppressed; rates based on fewer than 20 events are considered unreliable and have also been suppressed. "Other" includes PO Boxes, unique addresses and unknown zip codes. Data exported July 1, 2015 from EHARS.

Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimate (2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 12: Incidence of HIV/AIDS Death Cases and Age-Adjusted Mortality Rates (per 100,000 population) by Selected Characteristics, Shelby County Residents, 2010-2014

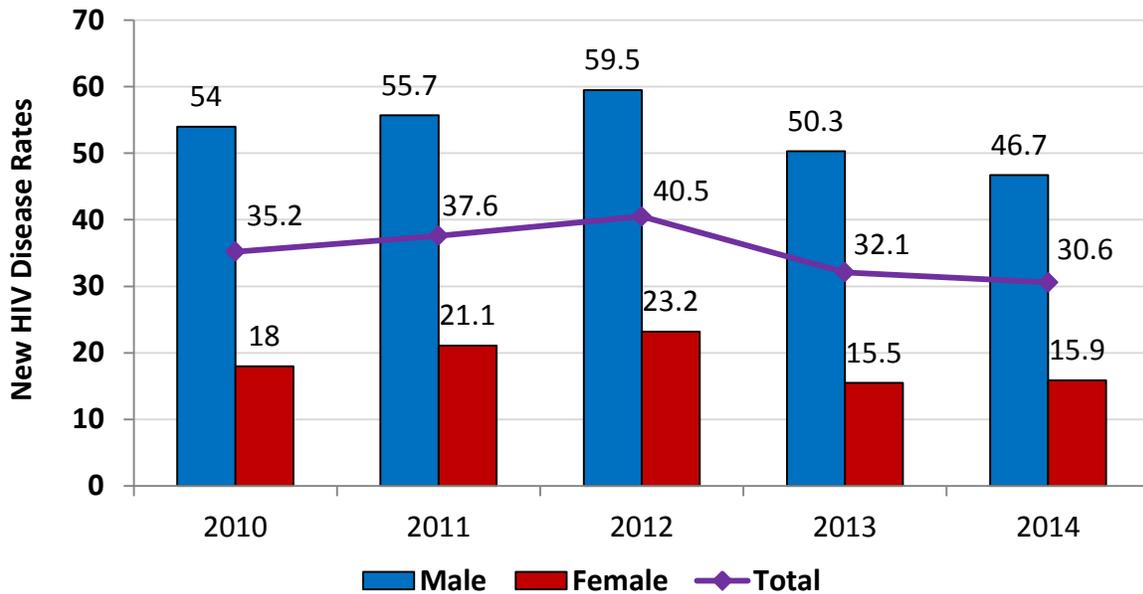
	2010		2011		2012		2013		2014*	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	145	15.7	122	13.1	109	11.6	136	14.5	53	5.7
Sex										
Male	93	21.1	81	18.2	74	16.5	97	21.7	32	7.2
Female	52	10.8	41	8.4	35	7.2	39	8.0	21	4.3
Age at Death										
20 to 24	*	*	*	*	*	*	*	*	*	*
25 to 34	18	† 13.9	18	† 13.7	14	† 10.6	*	*	*	*
35 to 44	41	32.9	29	23.5	31	25.2	35	28.8	13	† 10.7
45 to 54	46	34.7	37	28.3	33	25.7	35	27.8	13	† 10.4
55 to 64	26	24.7	27	24.5	26	23.0	36	31.4	14	† 12.3
65+	*	*	*	*	*	*	17	† 16.2	8	† 7.6
Race/Ethnicity										
White, Not Hispanic	18	† 5.1	14	† 3.9	*	*	*	*	5	† 1.5
Black, Not Hispanic	123	25.6	105	21.7	100	20.5	117	23.7	46	9.4
Hispanic, All Races	*	*	*	*	0	0.0	0	0.0	*	*
Other Race, Not Hispanic	*	*	*	*	*	*	*	*	*	*

Deaths less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Data exported July 1, 2015 from EHARS. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

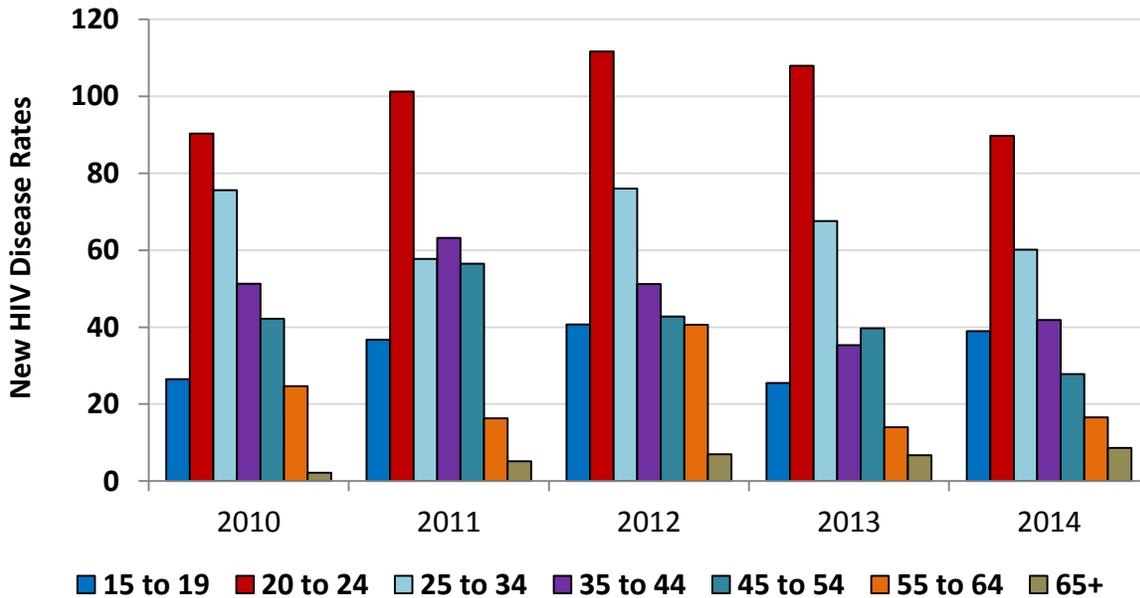
*: Preliminary data, subject to change.

Figure 1. New HIV Disease Rates (per 100,000 population) by Sex, Shelby County Residents, 2010-2014



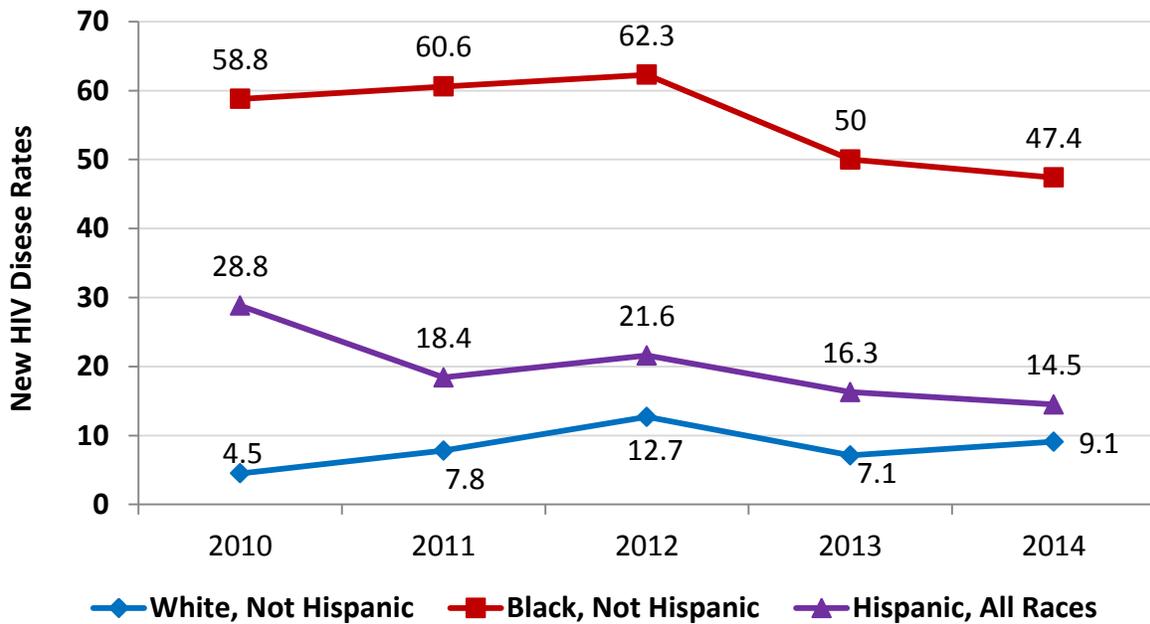
Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 2. New HIV Disease Rates (per 100,000 population) by Age Group, Shelby County Residents, 2010-2014



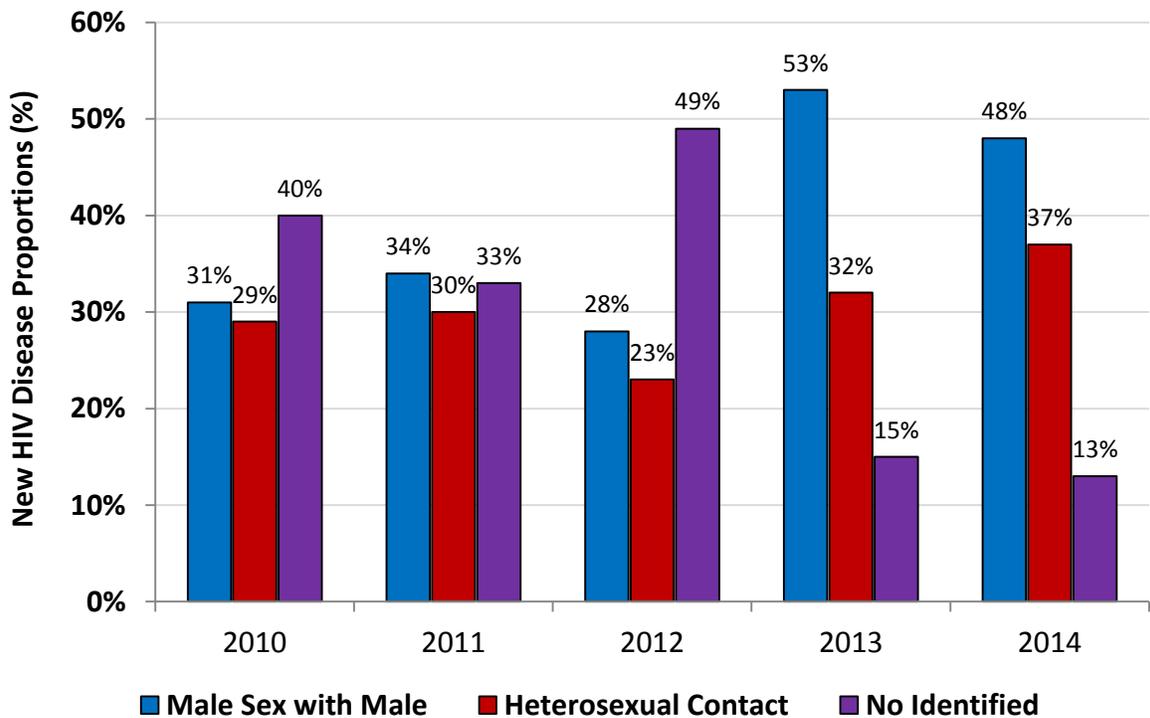
Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 3. New HIV Disease Rates (per 100,000 population) by Race, Shelby County Residents, 2010-2014



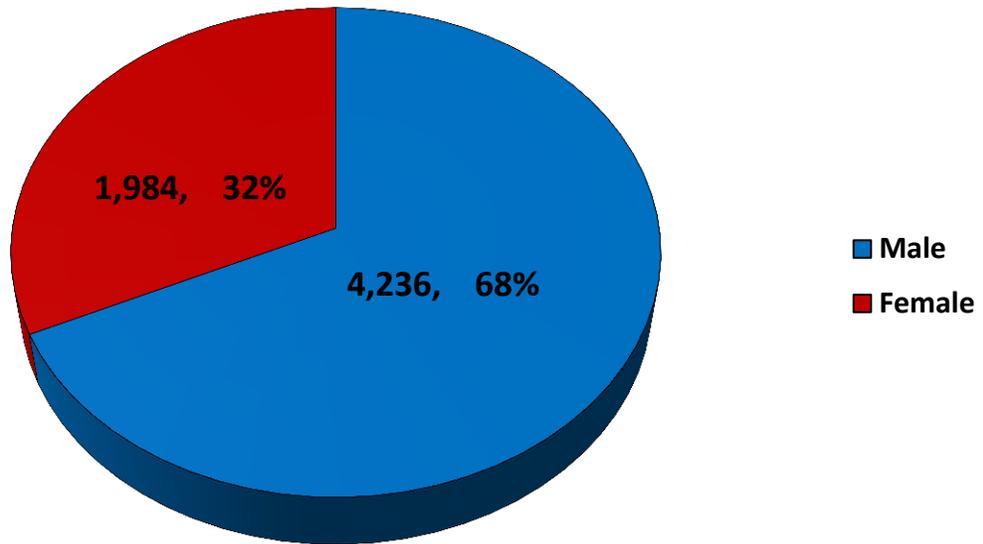
Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 4. Proportion of New HIV Disease Cases by Risk, Shelby County Residents , 2010-2014



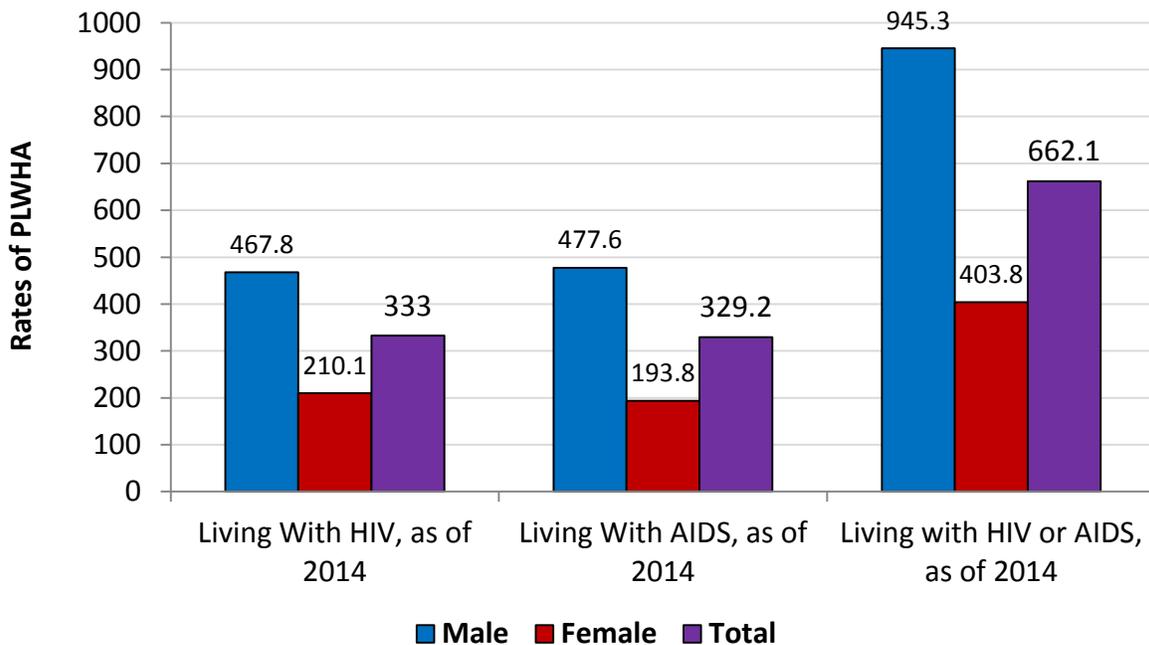
Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 5. Proportion of People Living with HIV/AIDS by Sex, Shelby County Residents, as of December 31, 2014



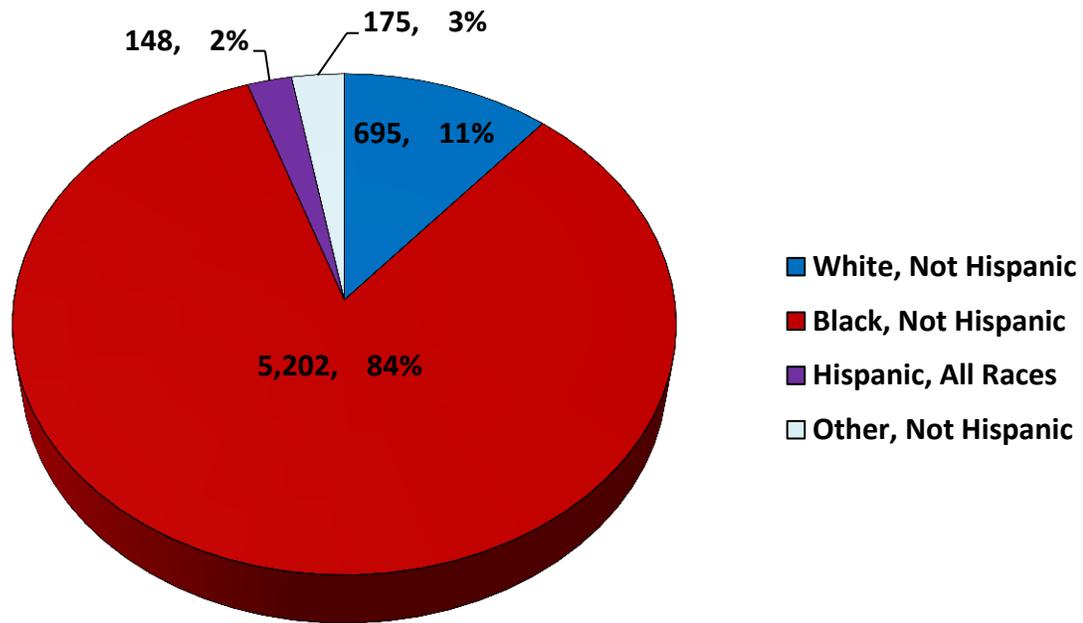
Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimates (2013).

Figure 6. Prevalence Rate of People Living with HIV/AIDS (per 100,000 population) by Sex, Shelby County Residents, as of December 31, 2014



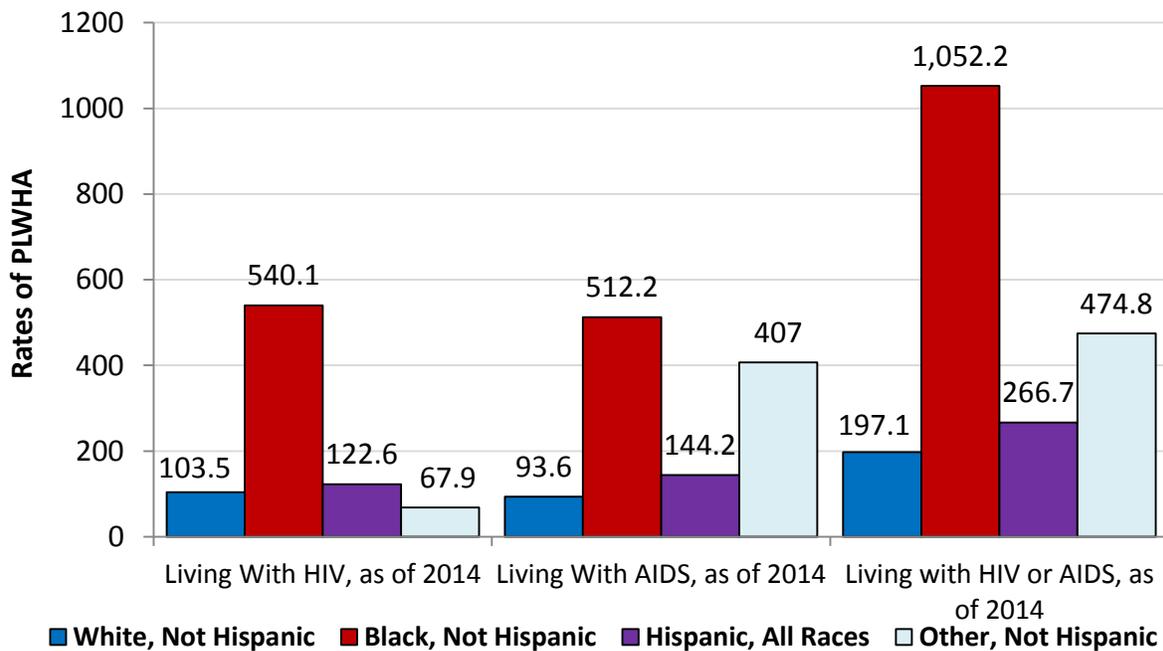
Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimates (2013).

Figure 7. Number and Percentage of People living with HIV/AIDS by Race/Ethnicity, Shelby County Residents, as of December 31, 2014



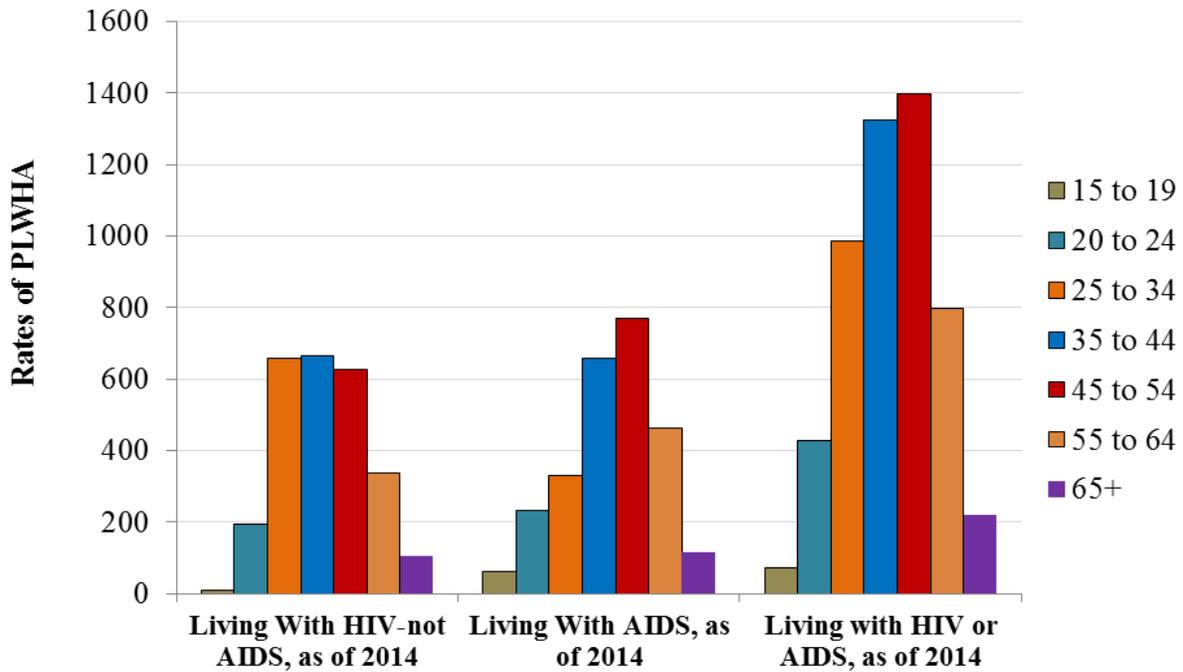
Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimates (2013).

Figure 8. Prevalence Rate of People living with HIV/AIDS (per 100,000 population) by Race/Ethnicity, Shelby County Residents, as of December 31, 2014



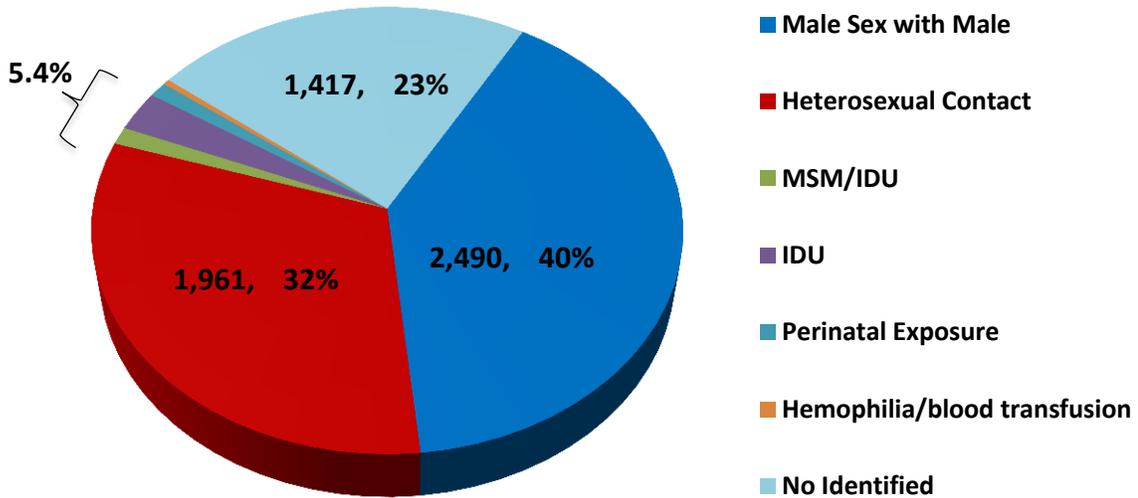
Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimates (2013).

Figure 9. Prevalence Rate of People living with HIV/AIDS (per 100,000 population) by Age Group, Shelby County Residents, as of December 31, 2014



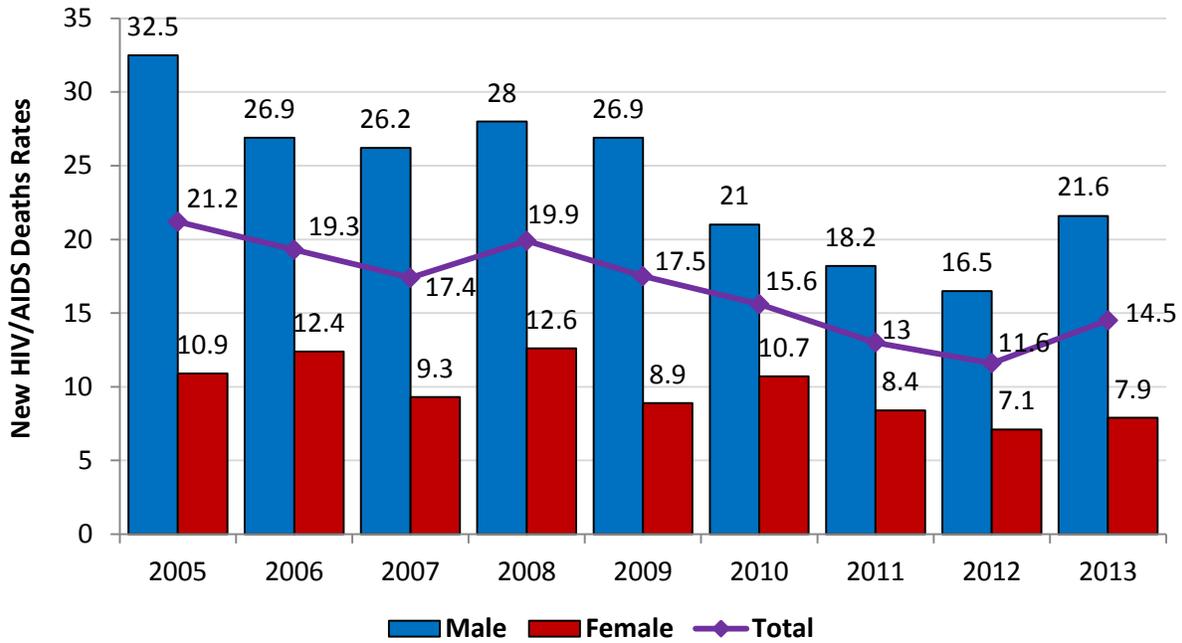
Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimates (2013).

Figure 10. Number and Percentage of People living with HIV/AIDS by Risk Exposure Category, Shelby County Residents, as of December 31, 2014



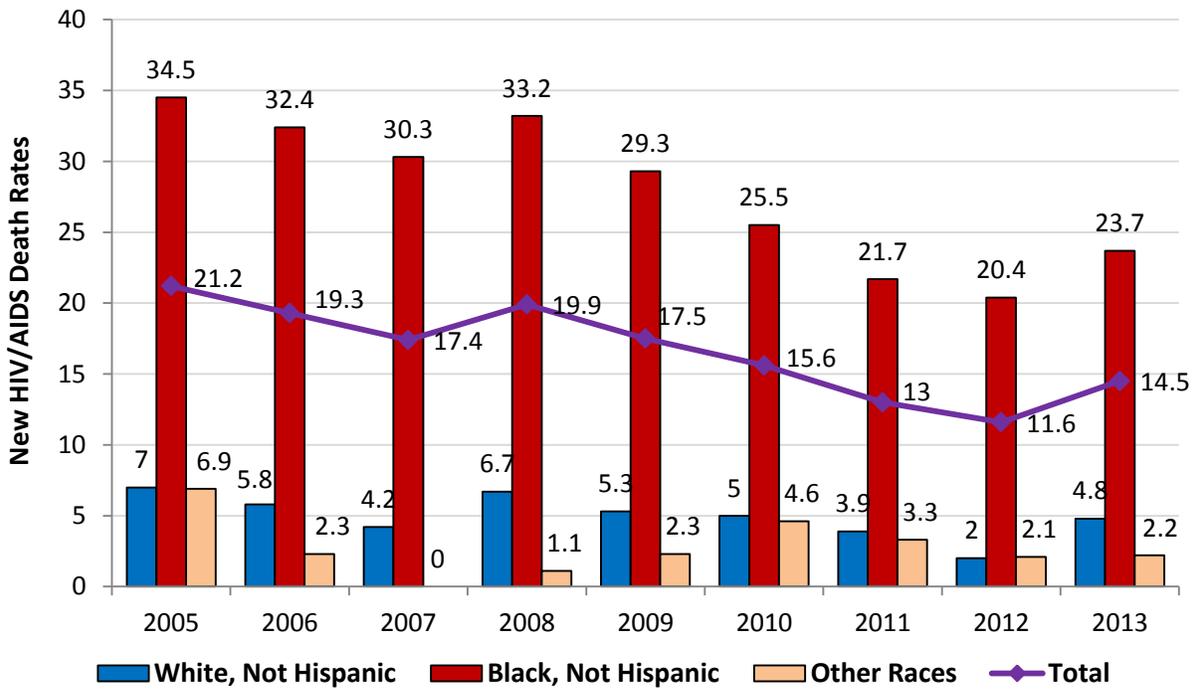
Data source: Enhanced HIV/AIDS Reporting System (EHARS); American Community Survey 1-year Population Estimates (2013).

Figure 11. Incidence of HIV/AIDS Deaths Rates (per 100,000 population) by Sex, Shelby County Residents, 2005-2013



Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2005-2009,2011,2012,2013).

Figure 12. Incidence of HIV/AIDS Deaths Rates (per 100,000 population) by Race/Ethnicity, Shelby County Residents, 2005-2013



Data source: Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2005-2009,2011,2012,2013).

Table 13: New Syphilis Cases and Rates (per 100,000 population) by Stage of Disease, Shelby County Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL, All Stages	700	75.5	552	59.0	556	59.1	530	56.4	397	42.3
Total, Early Syphilis	374	40.3	274	29.3	261	27.7	243	25.9	175	18.6
Primary and Secondary	142	15.3	110	11.8	99	10.5	89	9.5	74	7.9
Early Latent	232	25.0	164	17.5	162	17.2	154	16.4	101	10.8
Total, Late Syphilis	315	34.0	271	29.0	293	31.1	285	30.3	220	23.4
Latent, Unkown Duration	66	7.1	64	6.8	*	*	*	*	*	*
Late Latent	249	26.8	207	22.1	220	23.4	216	23.0	220	23.4
Neurosyphilis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Congenital Syphilis	11	† 1.2	7	† 0.7	*	*	*	*	*	*

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Early, late and total Syphilis Rates expressed per 100,000 persons; congenital syphilis rates expressed per 100,000 live births. † Rate is based on fewer than 20 events and therefore considered to be unreliable. Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 nonulation data

Table 14: New Primary and Secondary Syphilis Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	142	15.3	110	11.8	99	10.5	89	9.5	74	7.9
Sex										
Male	114	25.8	91	20.4	80	17.8	75	16.7	55	12.3
Female	28	5.8	19	† 3.9	19	† 3.9	14	† 2.8	19	† 3.9
Age at Diagnosis										
0 to 9	0	0.0	*	*	0	0.0	0	0.0	0	0.0
10 to 14	0	0.0	*	*	0	0.0	0	0.0	*	*
15 to 19	10	† 13.9	9	† 12.7	18	† 26.1	11	† 16.5	14	† 21.0
20 to 24	36	54.2	34	49.1	25	34.9	31	43.4	27	37.8
25 to 34	52	40.1	36	27.3	27	20.3	32	24.0	19	† 14.3
35 to 44	26	20.8	15	† 12.1	15	† 12.2	10	† 8.2	10	† 8.2
45 to 54	16	† 12.0	11	† 8.4	*	*	*	*	*	*
55 to 64	*	*	*	*	*	*	*	*	*	*
65+	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Race/Ethnicity										
White, Not Hispanic	9	† 2.5	7	† 1.9	*	*	*	*	*	*
Black, Not Hispanic	127	26.4	102	21.1	94	19.2	85	17.2	71	14.4
Hispanic, All Races	*	*	*	*	*	*	*	*	*	*
Other Race, Not Hispanic	*	*	*	*	0	0.0	0	0.0	0	0.0

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Individuals reporting a specified race but unknown ethnicity are categorized within the known racial category. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 15: New Primary and Secondary Syphilis Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Male Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	114	25.8	91	20.4	80	17.8	75	16.7	55	12.3
Age at Diagnosis										
0 to 9	0	0.0	*	*	0	0.0	0	0.0	0	0.0
10 to 14	0	0.0	*	*	0	0.0	0	0.0	0	0.0
15 to 19	8	† 22.1	5	† 14.0	11	† 31.5	6	† 17.8	12	† 35.5
20 to 24	26	79.3	31	90.4	20	56.2	27	76.1	19	† 53.5
25 to 34	48	76.6	30	47.3	25	39.0	29	45.1	16	† 24.9
35 to 44	21	35.2	13	† 21.8	13	† 22.0	9	† 14.9	5	† 8.3
45 to 54	9	† 14.5	8	† 13.2	7	† 11.6	*	*	*	*
55 to 64	*	*	*	*	*	*	*	*	*	*
65+	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Race/Ethnicity										
White, Not Hispanic	9	† 5.2	7	† 4.0	*	*	*	*	*	*
Black, Not Hispanic	101	45.4	83	36.9	76	33.4	72	31.3	53	23.1
Hispanic, All Races	*	*	*	*	*	*	*	*	*	*
Other Race, Not Hispanic	*	*	*	*	0	0.0	0	0.0	0	0.0

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Individuals reporting a specified race but unknown ethnicity are categorized within the known racial category †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013

Table 16: New Primary and Secondary Syphilis Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Female Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	28	5.8	19	† 3.9	19	† 3.9	14	† 2.8	19	† 3.9
Age at Diagnosis										
0 to 9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10 to 14	0	0.0	0	0.0	0	0.0	0	0.0	*	*
15 to 19	*	*	*	*	7	† 20.6	5	† 15.2	*	*
20 to 24	10	† 29.7	*	*	5	† 13.8	*	† 11.1	8	† 22.3
25 to 34	*	*	6	† 8.8	*	*	*	*	*	*
35 to 44	5	† 7.7	*	*	*	*	*	*	5	† 7.9
45 to 54	7	† 9.9	*	*	*	*	*	*	0	0.0
55 to 64	0	0.0	*	*	*	*	0	0.0	0	0.0
65+	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Race/Ethnicity										
White, Not Hispanic	0	0.0	0	0.0	0	0.0	*	*	0	0.0
Black, Not Hispanic	26	10.0	19	† 7.3	18	† 6.8	13	† 4.9	18	† 6.7
Hispanic, All Races	*	*	0	0.0	*	*	0	0.0	*	*
Other Race, Not Hispanic	*	*	0	0	*	*	*	*	0	0.0

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Individuals reporting a specified race but unknown ethnicity are categorized within the known racial category. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013

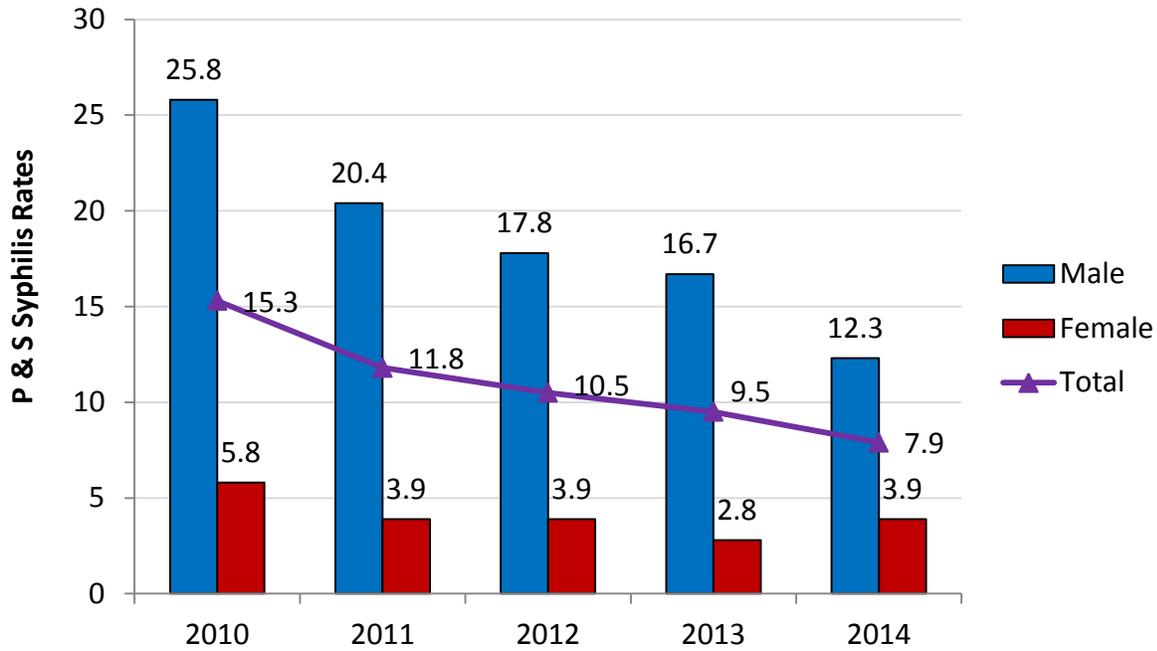
Table 17: New Syphilis Cases (all stages) and 3-Year Aggregated Rates (per 100,000 population) by Zip Code, Shelby County Residents, 2010-2014

Zip Code	2010 N	2011 N	2012 N	2013 N	2014 N	2010-2012 Rate	2011-2013 Rate	2012-2014 Rate
38002	*	*	*	*	*	*	*	*
38016	*	8	11	13	10	17.0	25.3	26.9
38017	*	*	0	*	*	† 2.7	† 2.7	† 1.4
38018+38028	*	6	6	10	5	*	17.3	16.5
38053	8	*	*	*	*	† 14.3	† 7.1	† 8.3
38103+38104+38105	53	29	44	38	24	100.5	86.8	82.9
38106+38126	58	38	46	42	25	137.0	131.9	118.3
38107+38108	95	67	37	34	24	182.1	130.3	89.7
38109	59	48	55	49	35	115.9	105.2	96.2
38111	36	48	36	42	27	95.8	96.1	80.0
38112+38122	45	24	16	15	13	66.3	44.3	35.4
38114	46	44	34	38	30	153.6	137.0	120.5
38115	33	26	42	47	29	86.0	91.9	94.3
38116	38	39	38	40	26	94.9	92.8	82.5
38117	*	*	*	*	*	14.0	13.8	12.6
38118	46	31	37	36	26	91.6	81.3	77.4
38119+38120	12	8	8	8	*	25.5	21.4	† 16.0
38125	15	16	19	12	17	46.1	41.5	42.4
38127	56	47	38	26	24	103.9	82.1	65.1
38128	21	27	27	27	35	55.7	62.0	68.1
38133	7	5	5	5	*	*	*	*
38134	17	8	20	7	10	35.8	27.0	28.5
38135	6	5	*	6	*	† 15.2	† 16.2	† 11.6
38138+38139	0	*	*	*	*	† 2.5	† 5.0	† 4.1
38141	20	10	14	17	14	65.3	60.9	66.8
Other	14	6	7	8	7	—	—	—
Total	700	552	556	530	397	65.0	58.5	53.0

Morbidity based on report date. Case counts of less than five have been suppressed; 3-year aggregated rates based on fewer than 20 events are considered unreliable and have also been suppressed. "Other" includes PO Boxes, unique addresses and unknown zip codes. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

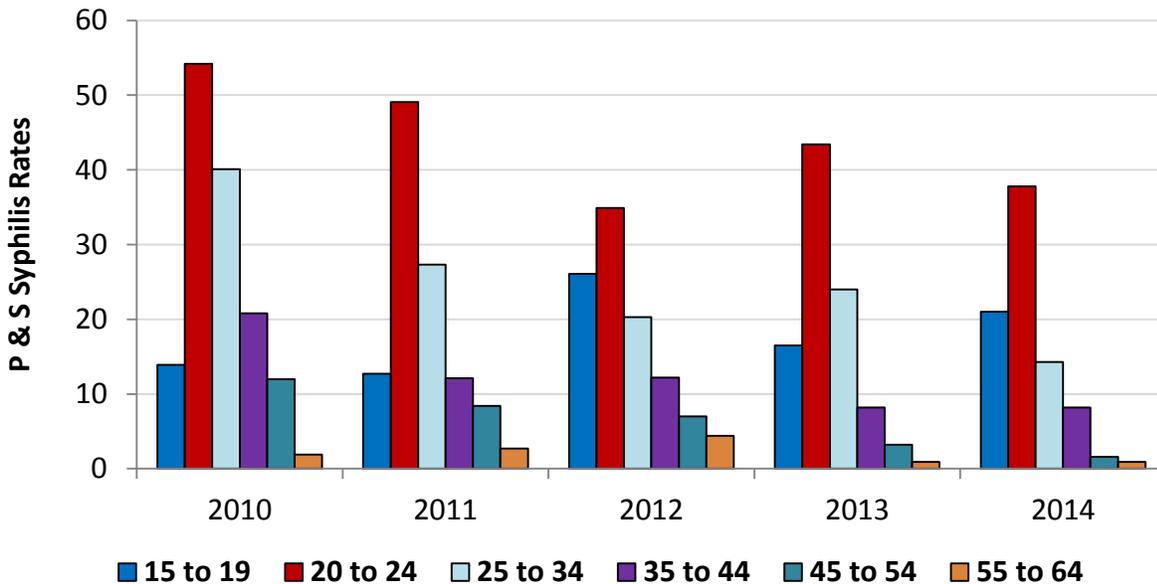
Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census Population Estimates (2010)

Figure 13. New Primary and Secondary Syphilis Rates (per 100,000 population) by Sex, Shelby County Residents, 2010-2014



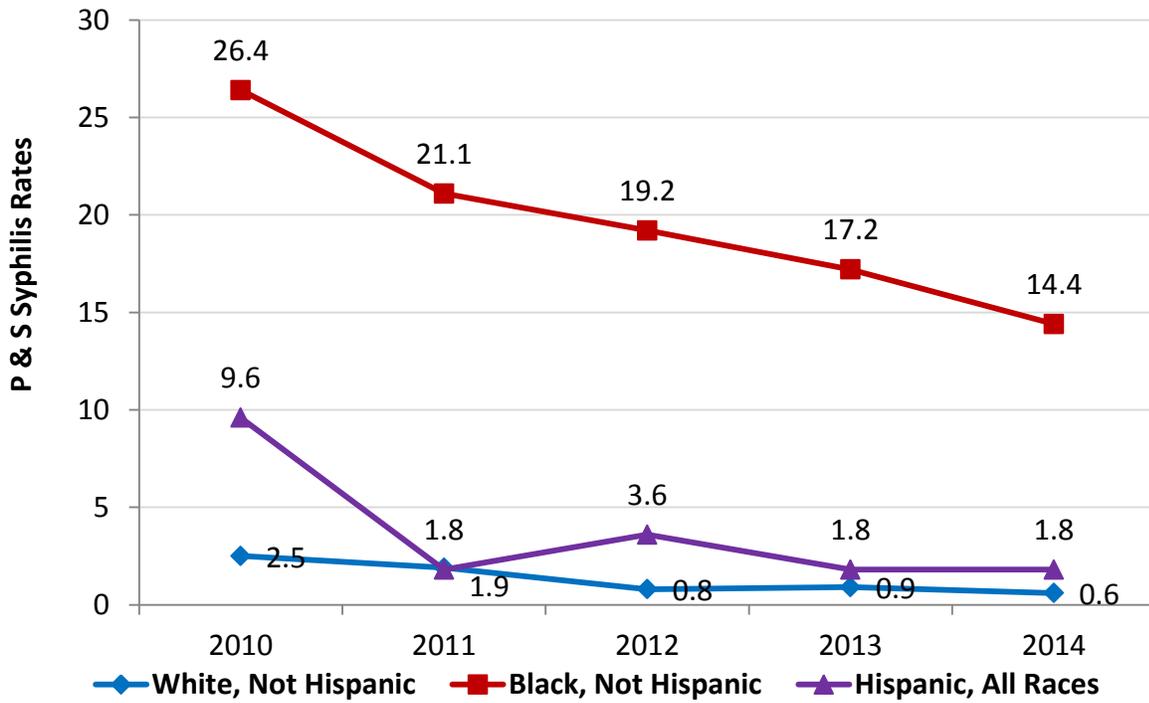
Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 14. New Primary and Secondary Syphilis Rates (per 100,000 population) by Age Group, Shelby County Residents, 2010-2014



Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 15. New Primary and Secondary Syphilis Rates (per 100,000 population) by Race, Shelby County Residents, 2010-2014



Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Table 18: New Chlamydia Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	9,970	1,074.8	9,797	1,047.7	9,926	1,055.1	8,503	905.1	8,084	860.5
Sex										
Male	2,295	518.5	2,486	557.8	2,581	574.6	2,379	530.9	2,140	477.6
Female	7,673	1,582.1	7,311	1,493.9	7,345	1,494.1	6,124	1,246.4	5,943	1,209.5
Unknown	2	...	0	...	0	...	0	...	1	...
Age at Diagnosis										
0 to 9	13	†9.9	7	†5.4	8	†6.1	*	*	8	†5.9
10 to 14	137	198.3	139	195.7	162	231.3	144	220.4	85	130.1
15 to 19	3,857	5,371.9	3,588	5,054.4	3,694	5,362.7	2,876	4,312.8	2,666	3,997.9
20 to 24	3,503	5,271.6	3,540	5,115.5	3,540	4,938.1	3,202	4,485.0	3,046	4,266.5
25 to 34	1,899	1,463.5	1,902	1,443.8	1,883	1,416.0	1,737	1,303.9	1,830	1,373.7
35 to 44	376	300.9	438	354.4	447	362.8	395	324.2	327	268.4
45 to 54	137	103.1	130	99.2	142	110.3	108	85.7	85	67.5
55 to 64	39	36.9	42	38.0	41	36.2	31	27.0	28	24.4
65+	7	†7.4	7	†7.2	7	†6.9	*	*	7	†6.6
Unknown	2	...	4	...	2	...	2	...	*	...
Race/Ethnicity										
White, Not Hispanic	577	160.7	620	172.0	608	171.0	525	148.8	505	143.2
Black, Not Hispanic	9,000	1,869.4	8,936	1,846.4	9,046	1,847.7	7,684	1,554.2	7,260	1,468.5
Hispanic, All Races	221	424.2	176	322.3	211	378.7	210	378.4	228	410.8
Other Race, Not Hispanic	55	157.1	54	149.4	60	150.2	77	208.9	62	168.2
Unknown	117	...	11	...	1	...	7	...	29	...

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Individuals reporting a specified race but unknown ethnicity are categorized within the known racial category. †Rate is based on fewer than 20 events and therefore considered to be unreliable. Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 19: New Chlamydia Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Male Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	2,295	518.5	2,486	557.8	2,581	574.6	2,379	530.9	2,140	477.6
Age at Diagnosis										
0 to 9	5	†7.5	*	*	*	*	*	*	*	*
10 to 14	10	†28.3	18	†50.2	17	†48.5	30	90.7	7	†21.2
15 to 19	703	1,941.9	702	1,970.2	854	2,445.4	650	1,923.8	601	1,778.7
20 to 24	794	2,421.2	864	2,520.0	840	2,362.3	864	2,435.1	792	2,232.2
25 to 34	559	892.6	632	997.1	598	931.7	586	910.5	547	849.9
35 to 44	147	246.1	189	317.7	190	321.1	171	283.0	125	206.9
45 to 54	56	90.1	55	90.5	59	98.0	57	96.9	43	73.1
55 to 64	16	†32.5	16	†31.3	14	†26.8	16	†30.6	18	†34.4
65+	5	†13.2	*	*	5	†12.2	*	*	5	†11.6
Unknown	0	...	3	...	*	...	1	...	*	...
Race/Ethnicity										
White, Not Hispanic	111	63.6	144	82.3	151	87.2	140	81.5	133	77.4
Black, Not Hispanic	2,101	944.9	2,289	1,018.4	2,380	1,046.8	2,152	936.8	1,941	844.9
Hispanic, All Races	33	113.6	26	87.2	31	101.2	47	155.1	35	115.5
Other Race, Not Hispanic	22	130.6	24	149.3	18	†99.9	36	220.2	19	†116.2
Unknown	28	...	3	...	1	...	4	...	12	...

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Individuals reporting a specified race but unknown ethnicity are categorized within the known racial category. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 20: New Chlamydia Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Female Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	7,673	1,582.1	7,311	1,493.9	7,345	1,494.1	6,124	1,246.4	5,943	1,209.5
Age at Diagnosis										
0 to 9	8	† 12.3	*	*	*	*	*	*	7	† 10.5
10 to 14	127	375.9	121	343.9	145	414.4	114	353.6	78	242.0
15 to 19	3,152	8,854.7	2,886	8,162.2	2,840	8,362.5	2,226	6,766.6	2,064	6,274.1
20 to 24	2,709	8,048.8	2,676	7,664.3	2,700	7,473.2	2,338	6,510.4	2,254	6,276.5
25 to 34	1,340	1,996.2	1,270	1,858.0	1,285	1,867.9	1,151	1,671.6	1,283	1,863.3
35 to 44	229	351.0	249	388.5	257	401.2	224	353.5	202	318.8
45 to 54	81	114.5	75	106.8	83	121.2	51	75.9	42	62.5
55 to 64	23	34.3	26	43.8	27	44.2	15	† 24.2	10	† 16.2
65+	*	*	*	*	*	*	*	*	*	*
Unknown	*	...	1	...	2	...	1	...	*	...
Race/Ethnicity										
White, Not Hispanic	466	252.3	476	256.8	457	250.5	385	212.7	372	205.6
Black, Not Hispanic	6,898	2,662.6	6,647	2,548.0	6,666	2,525.8	5,532	2,072.0	5,318	1,991.9
Hispanic, All Races	188	815.7	150	605.1	180	717.7	163	646.8	193	765.8
Other Race, Not Hispanic	33	181.7	30	163.0	42	207.7	41	225.3	43	236.3
Unknown	88	...	8	...	0	...	3	...	17	...

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Individuals reporting a specified race but unknown ethnicity are categorized within the known racial category. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

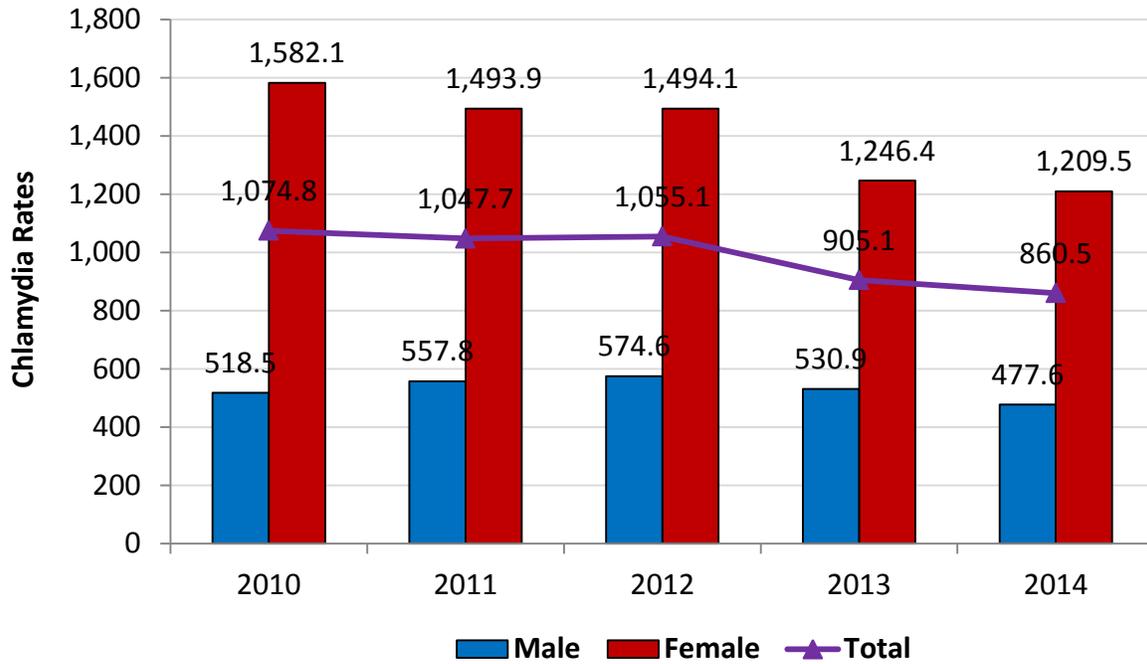
Table 21: New Reported Chlamydia Infections and 3-Year Aggregated Rates (per 100,000 population) by Zip Code, Shelby County Residents, 2010-2014

Zip Code	2010 N	2011 N	2012 N	2013 N	2014 N	2010-2012 Rate	2011-2013 Rate	2012-2014 Rate
38002	90	80	79	74	66	213.2	196.8	185.0
38016	135	156	180	183	163	364.4	410.9	416.4
38017	78	87	89	82	91	174.1	176.8	179.5
38018+38028	119	109	127	145	118	282.1	299.7	306.8
38053	122	126	122	110	101	441.5	422.7	393.2
38103+38104+38105	262	314	313	219	210	709.4	661.8	580.4
38106+38126	813	829	749	592	553	2,306.4	2,270.8	1,982.0
38107+38108	697	578	664	499	450	1,774.3	1,644.4	1,523.5
38109	921	913	868	719	722	1,933.0	1,730.0	1,597.8
38111	474	481	469	419	448	1,137.1	1,043.6	1,018.5
38112+38122	454	394	410	313	348	981.1	899.7	862.6
38114	551	616	545	464	419	2,121.0	1,919.8	1,687.0
38115	617	750	684	624	609	1,747.2	1,644.6	1,531.9
38116	768	740	740	582	612	1,854.6	1,635.9	1,534.3
38117	72	68	68	74	88	265.4	264.1	289.3
38118	734	759	761	644	566	1,812.0	1,691.7	1,540.8
38119+38120	137	121	148	150	130	370.1	373.2	381.2
38125	306	304	350	338	320	885.2	875.6	889.7
38127	1,022	855	953	808	697	2,084.8	1,934.6	1,817.8
38128	726	614	639	559	546	1,470.4	1,386.8	1,334.8
38133	84	67	83	47	47	375.2	322.3	289.6
38134	250	237	245	238	229	581.7	554.8	548.6
38135	120	102	116	120	95	367.5	390.5	382.4
38138+38139	35	40	37	32	35	93.0	90.3	86.2
38141	268	285	313	267	236	1,285.1	1,284.1	1,211.4
Other	119	176	178	202	189	—	—	—
Total	9,974	9,801	9,930	8,504	8,088	1,067.4	1,008.8	947.6

Morbidity based on report date. Case counts of less than five and the corresponding rates have been suppressed. "Other" includes PO Boxes, unique addresses and unknown zip codes.

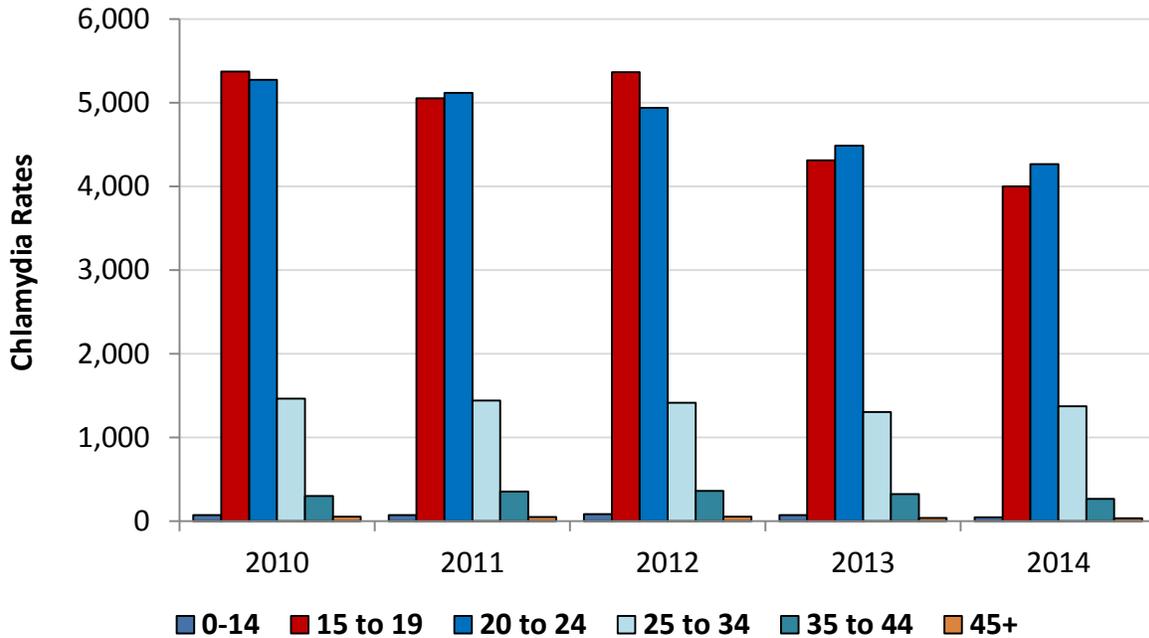
Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census Population Estimates (2010)

Figure 16. New Chlamydia Rates (per 100,000 population) by Sex, Shelby County Residents, 2010-2014



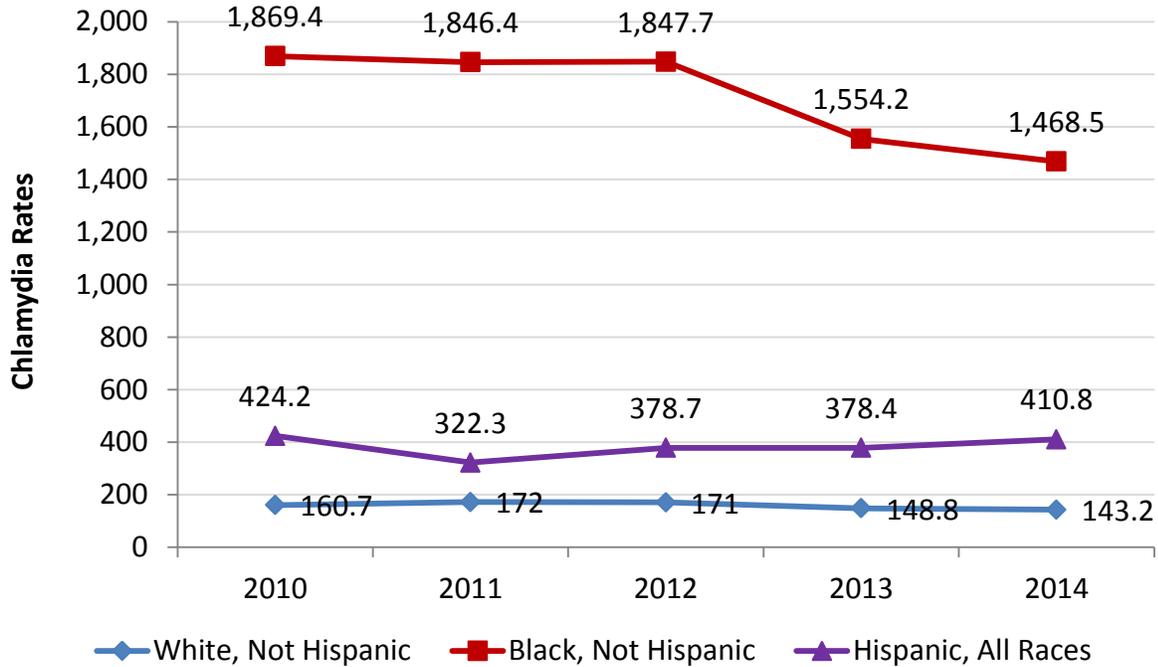
Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 17. New Chlamydia Rates (per 100,000 population) by Age Group, Shelby County Residents, 2010-2014



Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 18. New Chlamydia Rates (per 100,000 population) by Race, Shelby County Residents, 2010-2014



Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Table 22: New Gonorrhea Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	3,478	374.9	3,379	361.4	3,679	391.1	2,515	267.7	2,160	229.9
Sex										
Male	1,533	346.3	1,461	327.8	1,699	378.3	1,271	283.6	1,045	233.2
Female	1,945	401.0	1,918	391.9	1,980	402.8	1,244	253.2	1,115	226.9
Age at Diagnosis										
0 to 9	5	† 3.8	*	*	*	*	5	† 3.7	0	0.0
10 to 14	44	63.7	44	61.9	58	82.8	35	53.6	27	41.3
15 to 19	1,215	1,692.2	1,183	1,666.5	1,271	1,845.2	734	1,100.7	611	916.2
20 to 24	1,178	1,772.8	1,211	1,750.0	1,250	1,743.7	909	1,273.2	777	1,088.3
25 to 34	747	575.7	666	505.6	761	572.3	572	429.4	519	389.6
35 to 44	190	152.0	171	138.4	208	168.8	164	134.6	143	117.4
45 to 54	78	58.7	82	62.6	88	68.4	62	49.2	58	46.0
55 to 64	16	† 15.1	17	† 15.4	30	26.5	33	28.8	19	† 16.6
65+	*	*	*	*	8	† 7.9	*	*	6	† 5.7
Unknown	*	...	0	...	*	...	*	...	0	...
Race/Ethnicity										
White, Not Hispanic	103	28.7	104	28.9	155	43.6	118	33.5	96	27.2
Black, Not Hispanic	3,315	688.6	3,248	671.1	3,481	711.0	2,368	479.0	2,026	409.8
Hispanic, All Races	27	51.8	16	† 29.3	25	44.9	19	34.2	22	39.6
Other Race, Not Hispanic	12	† 34.3	9	† 24.9	18	† 45.1	10	† 27.1	10	† 27.1
Unknown	21	...	2	...	0	...	0	...	6	...

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Individuals reporting a specified race but unknown ethnicity are categorized within the known racial category. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 23: New Gonorrhea Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Male Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	1,533	346.3	1,461	0.0	1,699	0.0	1,271	0.0	1,045	0.0
Age at Diagnosis										
0 to 9	*	*	0	0.0	*	*	0	0.0	0	0.0
10 to 14	*	*	7	† 19.5	9	† 25.7	11	† 33.2	*	*
15 to 19	413	1,140.8	379	1,063.7	477	1,365.9	297	879.0	235	695.5
20 to 24	518	1,579.6	515	1,502.1	538	1,513.0	443	1,248.6	362	1,020.3
25 to 34	394	629.1	369	582.2	433	674.6	332	515.8	287	445.9
35 to 44	128	214.3	113	189.9	149	251.8	110	182.1	95	157.2
45 to 54	62	99.8	60	98.7	65	107.9	52	88.4	40	68.0
55 to 64	13	† 26.4	16	† 31.3	20	38.3	26	49.7	19	† 36.3
65+	*	*	*	*	5	† 12.2	0	0.0	*	*
Unknown	0	...	*	...	*	...	0	...	0	...
Race/Ethnicity										
White, Not Hispanic	33	18.9	42	24.0	67	38.7	61	35.5	54	31.4
Black, Not Hispanic	1,468	660.2	1,399	622.5	1,609	707.7	1,193	519.3	971	422.7
Hispanic, All Races	15	51.6	11	† 36.9	14	† 45.7	10	33.0	9	† 29.7
Other Race, Not Hispanic	3	† 17.8	8	† 49.8	9	† 49.9	7	† 42.8	6	† 36.7
Unknown	14	...	1	...	0	...	0	...	5	...

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Individuals reporting a specified race but unknown ethnicity are categorized within the known racial category. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

Table 24: New Gonorrhea Cases and Rates (per 100,000 population) by Selected Characteristics, Shelby County Female Residents, 2010-2014

	2010		2011		2012		2013		2014	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
TOTAL	1,945	401.0	1,918	391.9	1,980	402.8	1,244	253.2	1,115	226.9
Age at Diagnosis										
0 to 9	*	*	*	*	*	*	5	† 7.5	0	0.0
10 to 14	41	121.3	37	105.2	49	140.0	24	74.4	24	74.4
15 to 19	802	2,253.0	804	2,273.9	794	2,338.0	437	1,328.4	376	1,143.0
20 to 24	660	1,961.0	696	1,993.4	712	1,970.7	466	1,297.6	415	1,155.6
25 to 34	353	525.9	297	434.5	328	476.8	240	348.6	232	336.9
35 to 44	62	95.0	58	90.5	59	92.1	54	85.2	48	75.7
45 to 54	16	† 22.6	22	31.3	23	33.6	10	† 14.9	18	† 26.8
55 to 64	*	*	*	*	10	† 16.4	7	† 11.3	0	0.0
65+	*	*	*	*	*	*	*	*	*	*
Unknown	2	...	0	...	0	...	*	...	*	...
Race/Ethnicity										
White, Not Hispanic	70	37.9	62	33.5	88	48.2	57	31.5	42	23.2
Black, Not Hispanic	1,847	712.9	1,849	708.8	1,872	709.3	1,175	440.1	1,055	395.2
Hispanic, All Races	12	† 52.1	5	† 20.2	11	† 43.9	9	† 35.7	13	† 51.6
Other Race, Not Hispanic	9	† 49.5	*	*	9	† 44.5	*	*	*	*
Unknown	7	...	*	...	0	-	*	...	*	...

Morbidity based on date of diagnosis. Case counts of less than five and the corresponding rates have been suppressed. In categories with only one cell suppression, the next smallest cell was suppressed to prohibit back-calculation. Individuals reporting a specified race but unknown ethnicity are categorized within the known racial category. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013). 2014 Population data was unavailable during the time of analysis, therefore 2014 rates were calculated using 2013 population data.

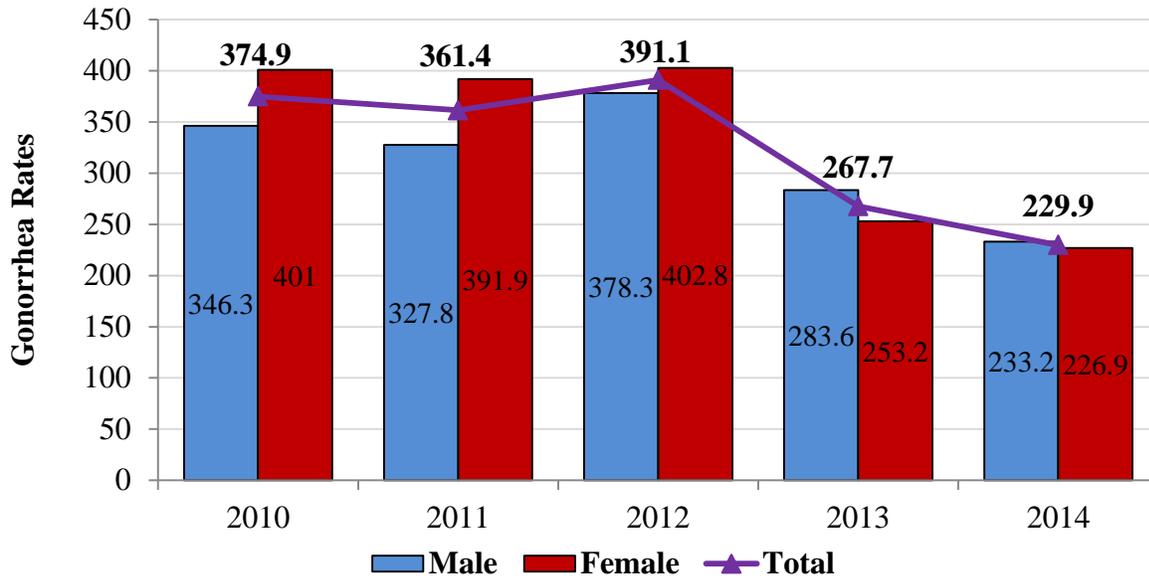
Table 25: New Gonorrhea Cases and 3 Year Aggregated Rates (per 100,000 population) by Zip Code, Shelby County Residents, 2010-2014

Zip Code	2,010 N	2,011 N	2,012 N	2,013 N	2,014 N	2010-2012 Rate	2011-2013 Rate	2012-2014 Rate
38002	23	15	23	*	10	52.2	45.6	41.4
38016	39	40	42	46	40	93.6	101.3	101.3
38017	22	12	19	15	16	36.3	31.5	34.3
38018+38028	36	47	35	22	26	93.8	81.8	65.3
38053	29	33	36	28	22	117.0	114.5	101.6
38103+38104+38105	78	106	120	88	76	242.6	245.6	222.2
38106+38126	304	357	318	220	163	944.4	936.6	733.6
38107+38108	257	241	270	160	159	702.8	633.8	556.3
38109	330	306	338	196	177	696.8	581.3	492.0
38111	199	184	180	132	122	449.6	378.1	330.9
38112+38122	150	127	169	102	91	347.8	320.6	291.6
38114	240	241	246	144	110	900.7	745.5	590.7
38115	240	227	235	195	161	598.0	525.0	472.3
38116	247	258	300	188	163	664.1	591.8	516.5
38117	22	28	30	24	31	102.1	103.1	106.9
38118	272	240	294	207	153	647.9	579.3	511.3
38119+38120	37	33	47	35	28	106.7	102.4	98.0
38125	104	91	131	77	66	300.6	263.9	241.8
38127	368	333	363	217	182	783.8	675.2	563.5
38128	210	208	194	150	150	454.7	422.5	378.1
38133	16	17	18	16	13	81.8	83.4	76.9
38134	72	55	63	64	57	151.0	140.2	141.8
38135	21	30	25	21	18	82.6	87.8	73.9
38138+38139	6	5	9	*	11	16.6	† 14.1	19.1
38141	117	93	106	85	72	468.9	421.6	390.4
Other	39	55	68	64	43	...	...	...
Total	3,478	3,382	3,679	2,515	2,160	378.7	342.2	298.5

Morbidity based on report date. Case counts of less than five have been suppressed; 3-year aggregated rates based on fewer than 20 events are considered unreliable and have also been suppressed. "Other" includes PO Boxes, unique addresses and unknown zip codes. †Rate is based on fewer than 20 events and therefore considered to be unreliable.

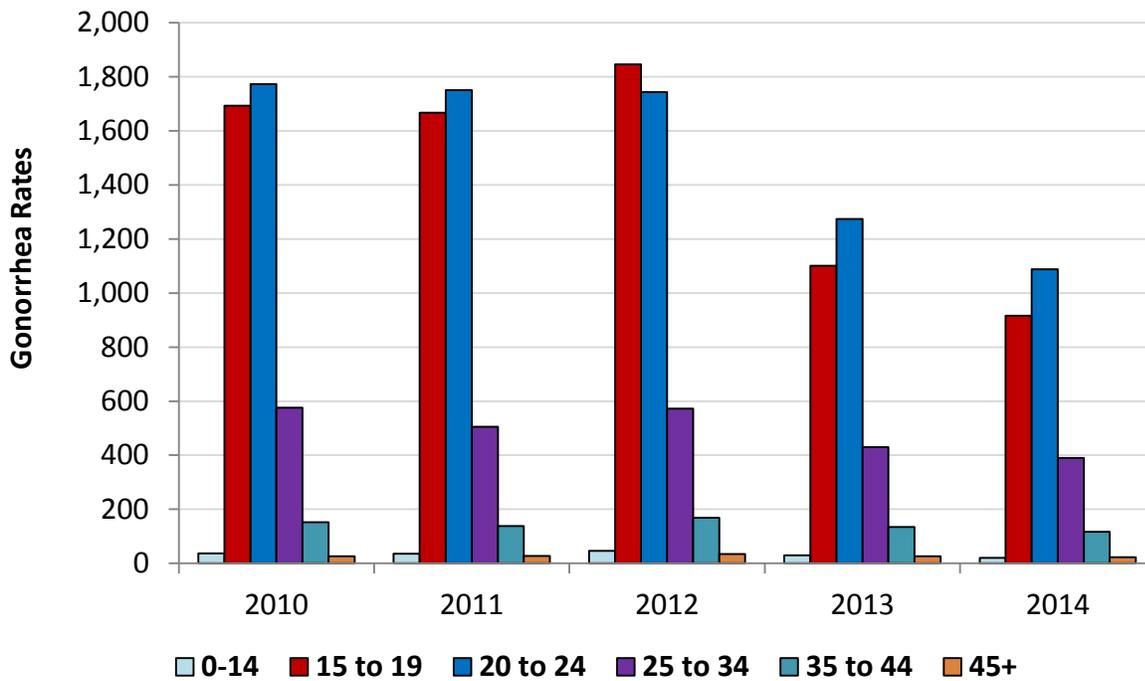
Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census Population Estimates (2013)

Figure 19. New Gonorrhea Rates (per 100,000 population) by Gender, Shelby County Residents, 2010-2014



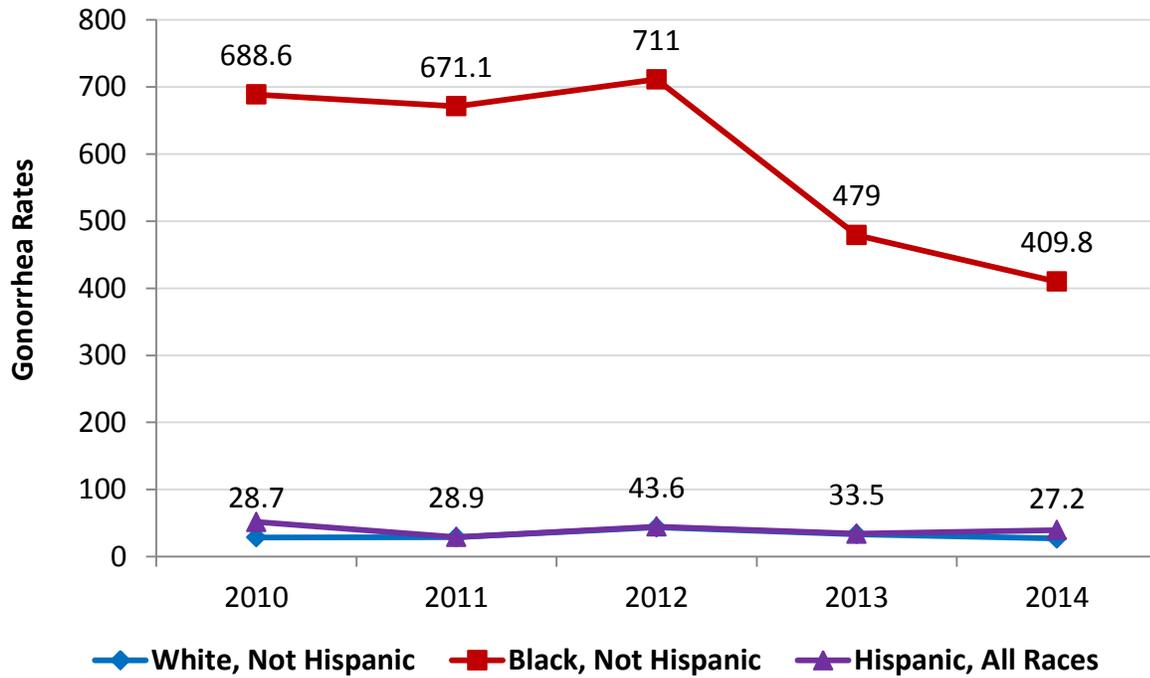
Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 20. New Gonorrhea Rates (per 100,000 population) by Age Group, Shelby County Residents, 2010-2014



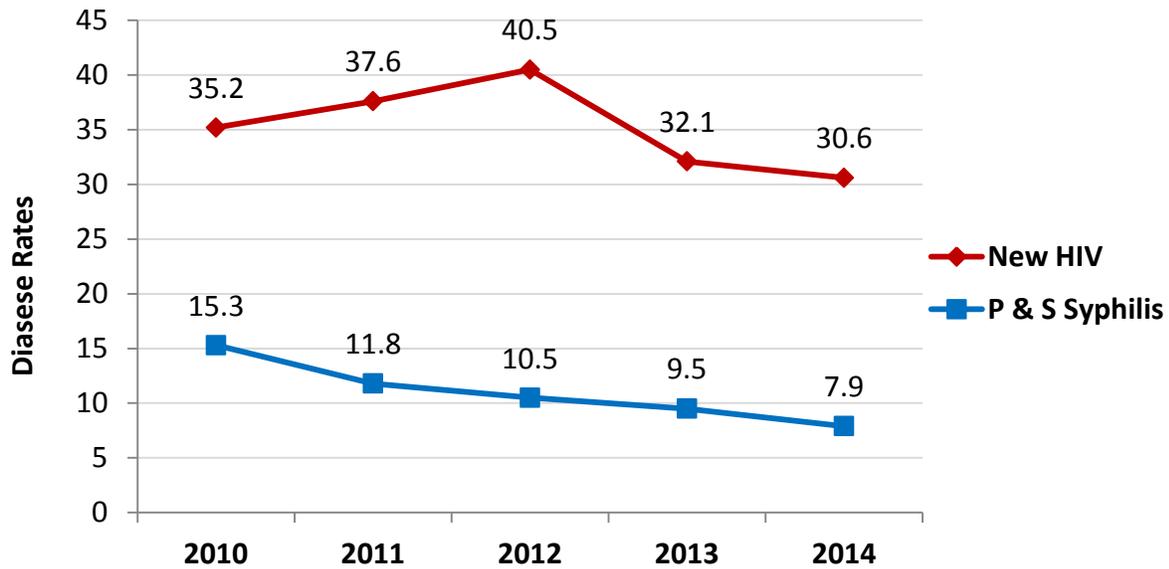
Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 21. New Gonorrhea Rates (per 100,000 population) by Race, Shelby County Residents, 2010-2014



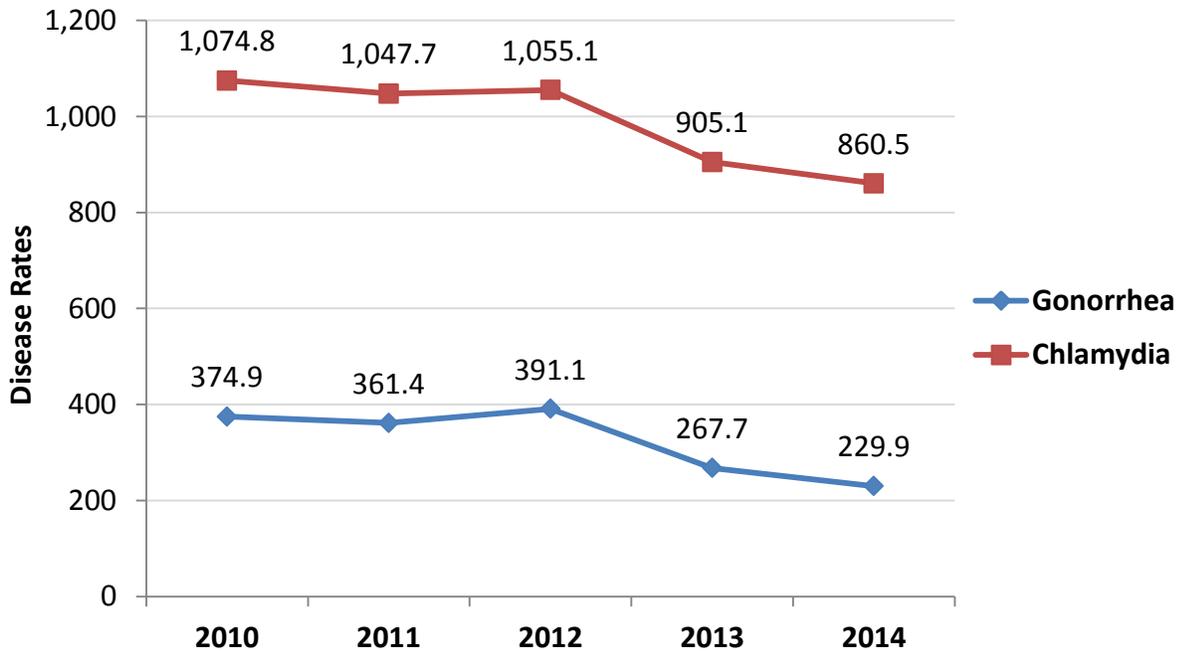
Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 22. New HIV/AIDS and Early Syphilis Rates (per 100,000 population) in Shelby County Residents, 2010 - 2014



Data Source: Patient Reporting Investigation Surveillance Manager (PRISM); Enhanced HIV/AIDS Reporting System (EHARS); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

Figure 23. New Chlamydia and Gonorrhea Rates (per 100,000 population) in Shelby County Residents, 2010 - 2014



Data Source: Patient Reporting Investigation Surveillance Manager (PRISM) (July 15, 2015 from PRISM); Decennial Census 2010 population; American Community Survey 1-year Population Estimates (2011,2012,2013).

HIV/AIDS Surveillance Data

Tennessee Department of Health, HIV/STD Program. Enhanced HIV/AIDS Reporting System, 2014. Nashville, Tennessee.

Note: "In 1984, the Tennessee Department of Health established a surveillance system to track newly diagnosed AIDS cases. This surveillance system was expanded in 1993 to include confidential, name-based HIV reporting. Standardized case report forms are used; these forms collect sociodemographic information, mode of exposure, laboratory and clinical information, vital status (i.e., living or dead), and referrals for treatment or services. Based on state evaluations (Tennessee HIV/AIDS Program), HIV infection reporting is estimated to be >95% complete for persons who have tested positive for HIV. HIV surveillance data may underestimate the number of recently infected persons because some infected persons either do not know they are infected or have not sought testing. Persons who have tested positive in an anonymous, or out-of-state, test site and have not sought medical care, where they would be confidentially tested, are not included in HIV surveillance statistics. Therefore, HIV infection data can only provide minimum estimates of the number of persons purported to be HIV-infected. In addition, newly reported cases may be reported to the health department at any point along the clinical spectrum of disease when first diagnosed. Consequently, HIV infection data do not necessarily represent characteristics of persons who have been recently infected with HIV." ¹

STD Case Reporting

Tennessee Department of Health, HIV/STD Program. Patient Reporting and Investigation Surveillance Manager, 2014; Nashville, Tennessee.

Note: "The Tennessee Department of Health HIV/STD/AIDS Section conducts statewide surveillance to determine the number of reported cases of STDs and to monitor trends. Other services include partner counseling and, to help reduce the spread of STDs, referral services for examination and treatment....STD surveillance data can serve as a surrogate marker for unsafe sexual practices and demonstrate the prevalence of changes in a specific behavior (e.g., rates of rectal gonorrhoea). STD data are widely available at the state and local level. Because of shorter incubation time periods between exposure and infection, STDs can serve as a marker of recent unsafe sexual behavior. In addition, certain STDs (i.e., ulcerative STDs) can facilitate transmission and/or acquisition of HIV infection. Finally, changes in trends of STDs may indicate changes in community sexual norms, such as unprotected sex. Some STDs are reportable, but requirements for reporting vary across states. Reporting of STDs from private sector providers may be less complete. Although STD risk behaviors result from unsafe sexual behavior, they do not necessarily correlate with HIV risk." ¹

¹ Tennessee Department of Health, 2005. 2005 Tennessee Integrated Epidemiologic Profile for HIV/AIDS Prevention and Care Planning. Website: http://health.state.tn.us/STD/PDFs/Epi_Profile2005.pdf