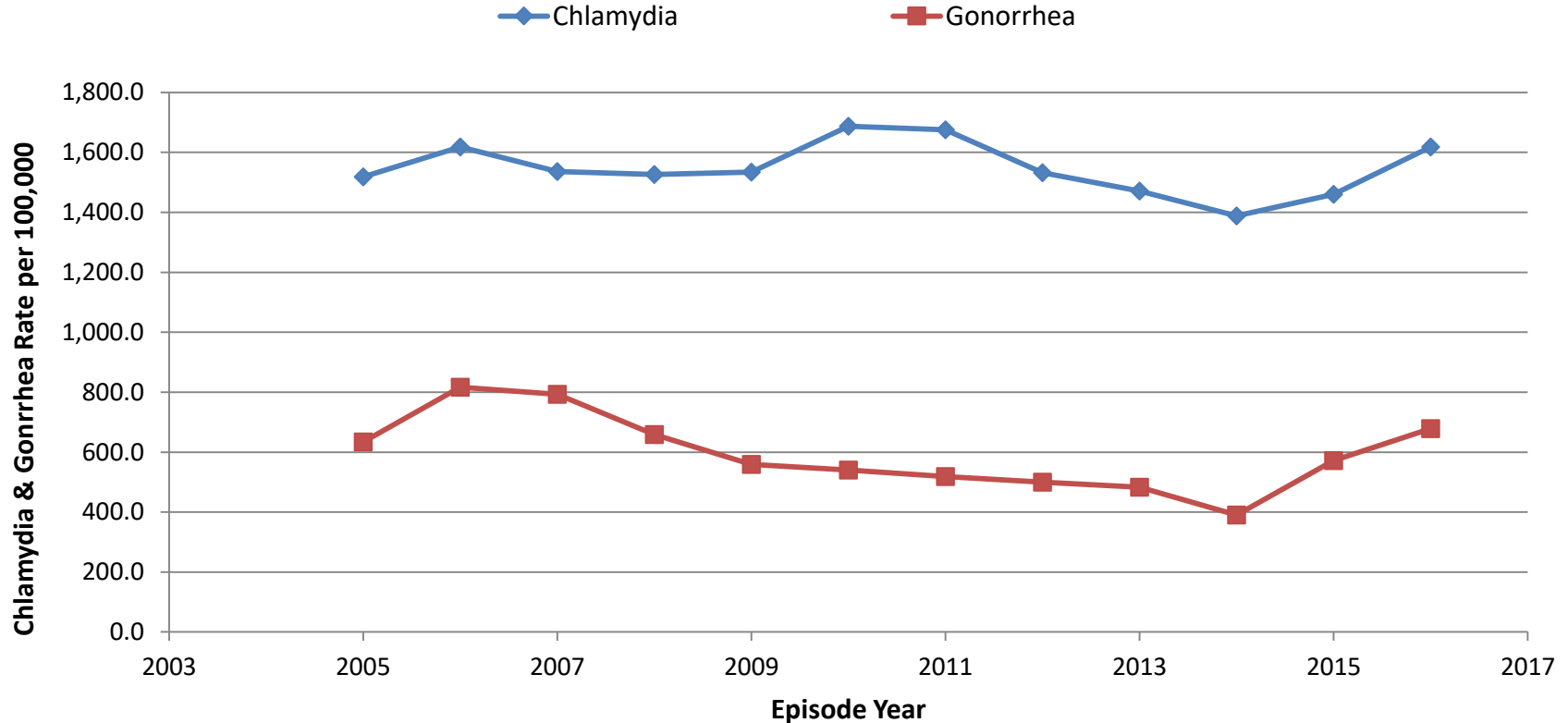


City of Milwaukee Health Department



# **Sexually Transmitted Disease (STD) and Human Immunodeficiency Disease (HIV) Reported in the City of Milwaukee 2016**

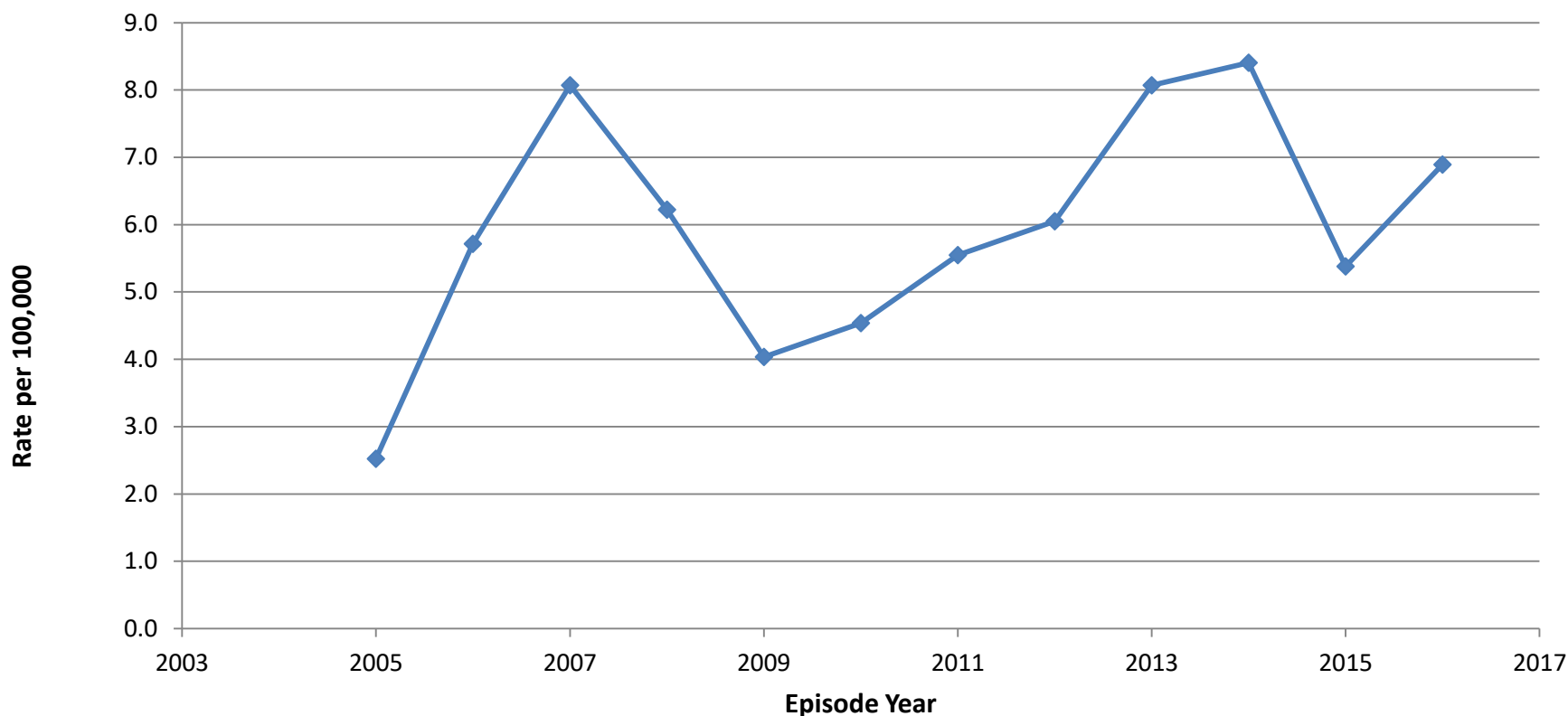
# Chlamydia & Gonorrhea Rates, City of Milwaukee, 2005-2016



Disease	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Chlamydia	1518.2	1618.6	1535.9	1526.1	1534.0	1686.9	1675.1	1531.9	1470.7	1388.1	1459.7	1617.8
Gonorrhea	634.0	816.4	792.7	659.2	559.1	540.0	519.0	500.0	482.8	389.9	571.6	678.5

Data sources: STD\*MIS for 2005-2007 and Wisconsin Electronic Disease Surveillance System (WEDSS) via PHAVR accessed on 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 population estimates.

## Primary & Secondary Syphilis Rate, City of Milwaukee, 2005-2016



Disease	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Primary and Secondary Syphilis	2.5	5.7	8.1	6.0	4.0	4.5	5.5	6.1	8.1	8.4	5.4	6.9

Data sources: STD\*MIS for 2005-2007 and WEDSS via PHAVR accessed 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 population estimates.

# Comparison of 2016 STD and HIV Rates in the City of Milwaukee, Milwaukee County, Wisconsin, and the U.S.

	City of Milwaukee		Milwaukee County		Wisconsin		U.S.	
Infection	Cases	Rate**	Cases	Rate**	Cases	Rate**	Cases	Rate**
Chlamydia	9,627	1,617.8	10,766	1,129	26,432	470	1,598,354	497.3
Gonorrhea	4,039	679.0	4,323	453	6,467	115	468,514	145.8
P&S syphilis	41	6.9	46	4.9	132	2.3	27,814	8.7
HIV	104	17.3	115	12.0	221	3.8	39,513*	12.3*

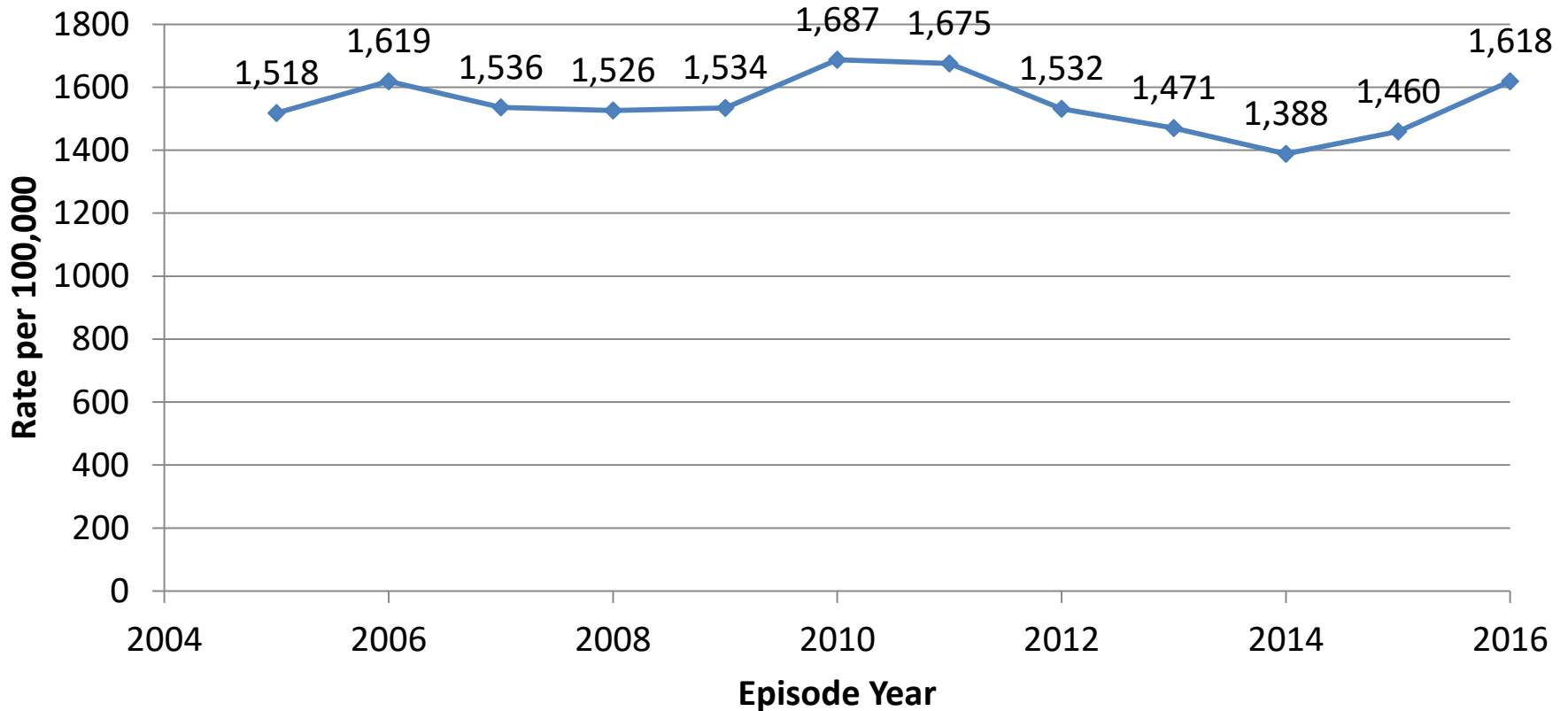
Data sources: Wisconsin PHAVR, accessed 10/4/2017; Wisconsin Department of Health Services (WI DHS), Sexually Transmitted Disease in Wisconsin 2016: Milwaukee County; WI DHS, Sexually Transmitted Disease in Wisconsin 2016: Reported Cases; WI DHS HIV/AIDS Surveillance Annual Review, 2016: Addendum: City of Milwaukee; Centers for Disease Control and Prevention (CDC) 2016 Sexually Transmitted Diseases Surveillance; 2010 U.S. Census

\*2015 numbers were used from latest surveillance report: CDC Diagnoses of HIV Infection in the United States and Dependent Areas, 2015.

\*\*All rates in Table 1 are defined as number of cases per 100,000 population. Please note that different data sources may have used different population data for the denominator of the rate.

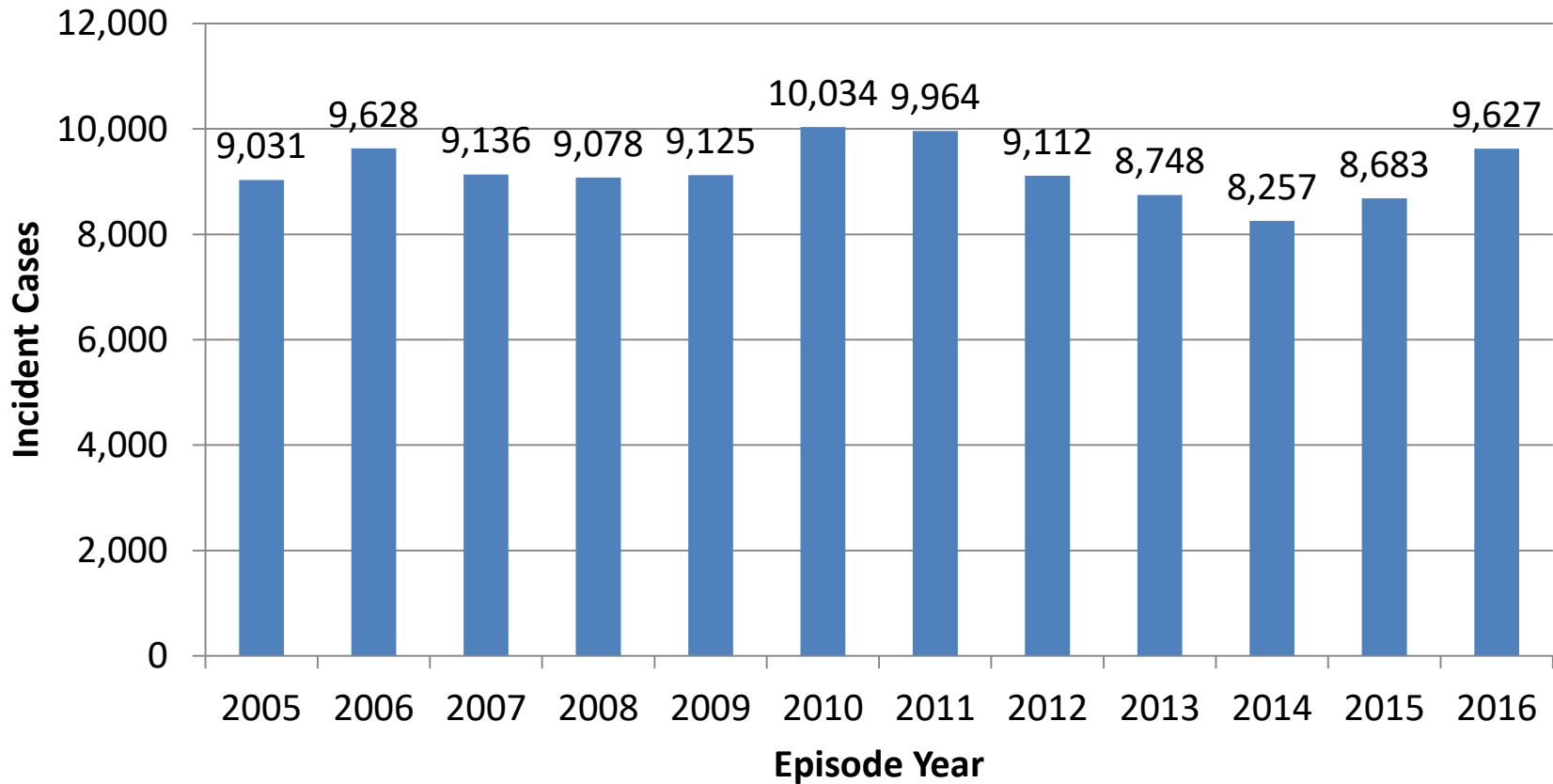
# **Chlamydia Cases Reported in the City of Milwaukee – 2016 Update**

## Chlamydia Rates in the City of Milwaukee, Rates per 100,000, 2005-2016



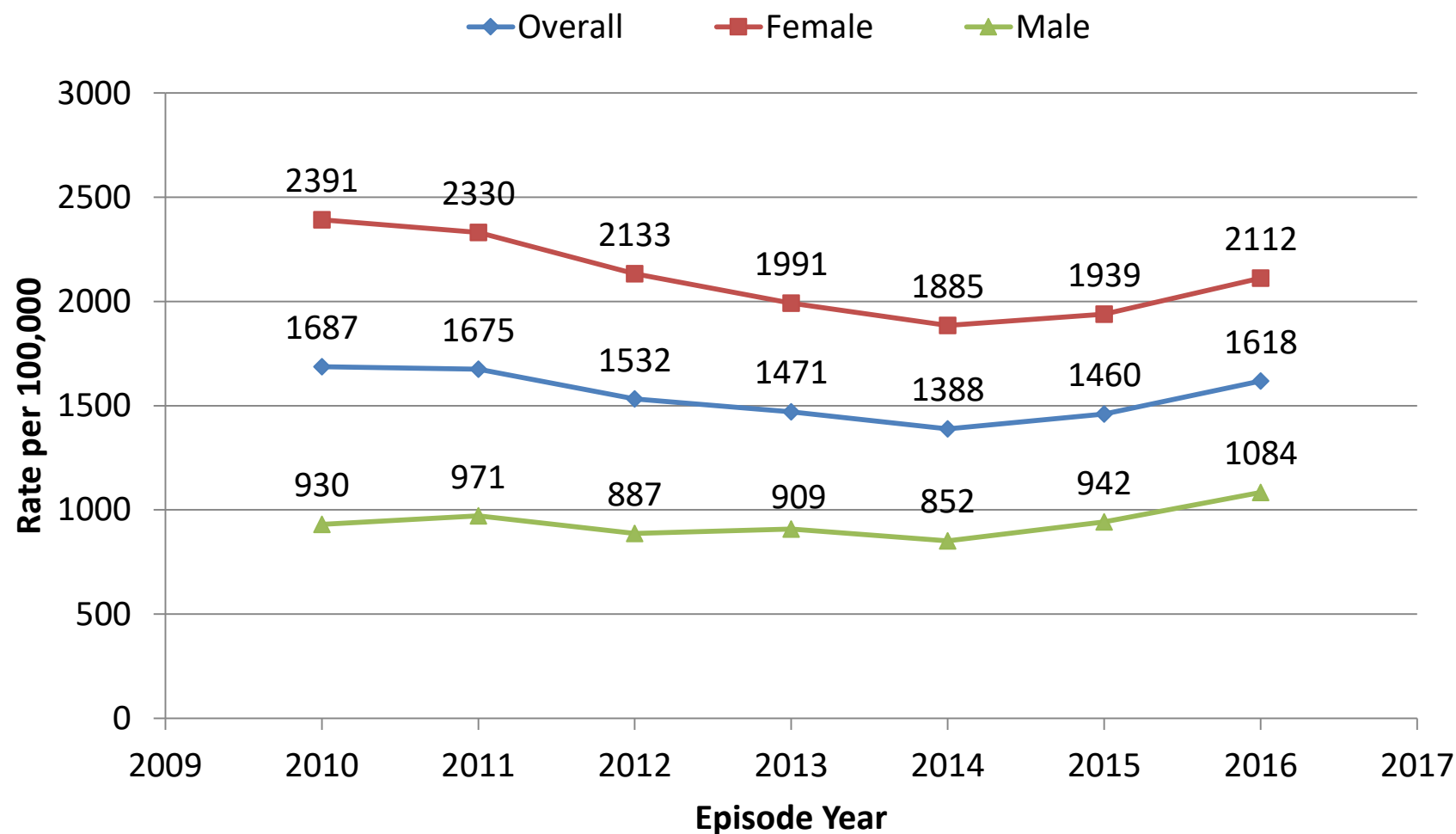
Data sources: STD-MIS for 2005-2007 and the Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2016, via PHAVR 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

## Chlamydia Incidence in the City of Milwaukee, 2005-2016



Data sources: STD-MIS for 2005-2007 and the Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2016, via PHAVR 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

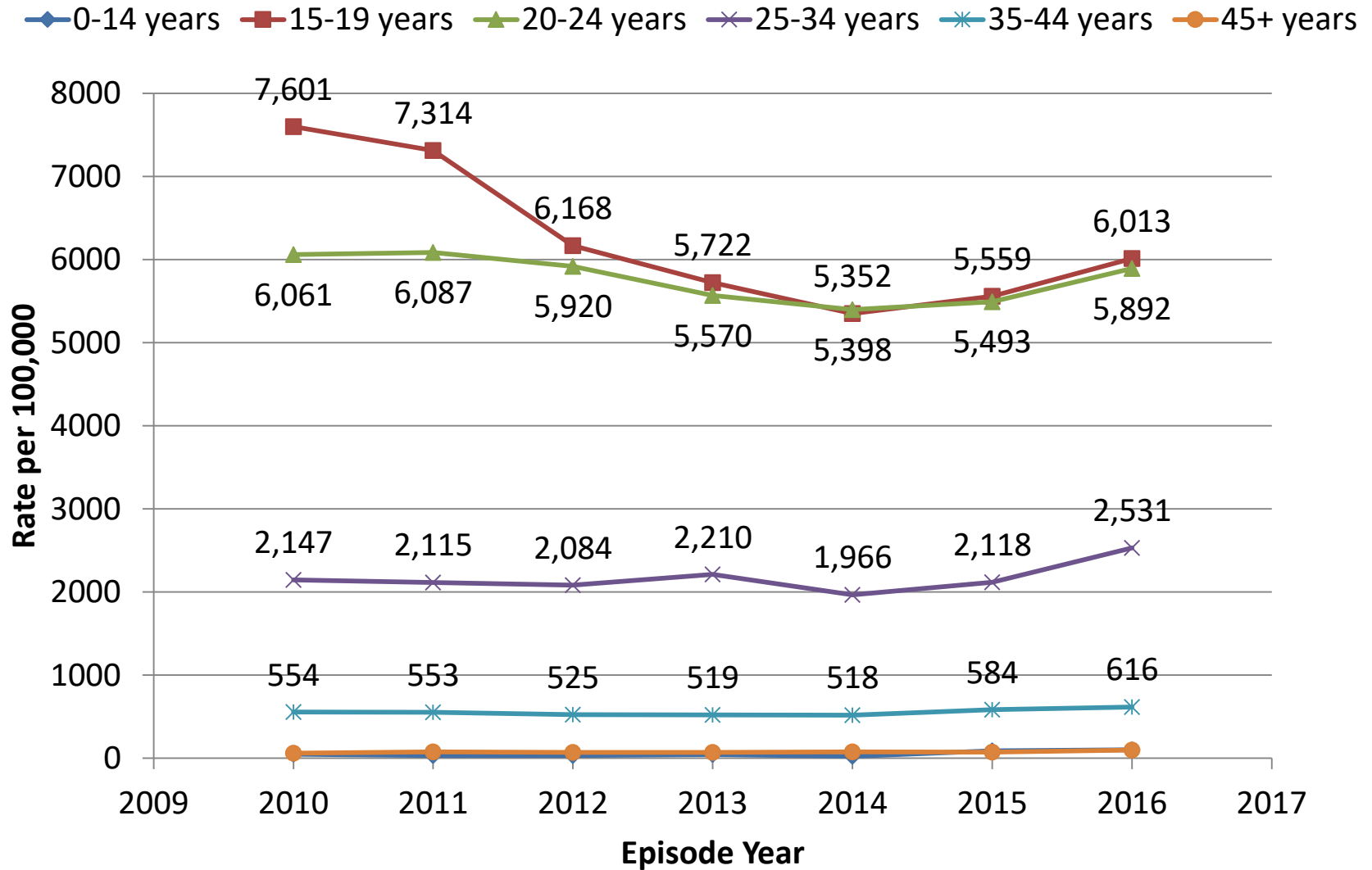
## Chlamydia Rates by Sex, City of Milwaukee, 2010-2016



Data sources: WEDSS, accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data.

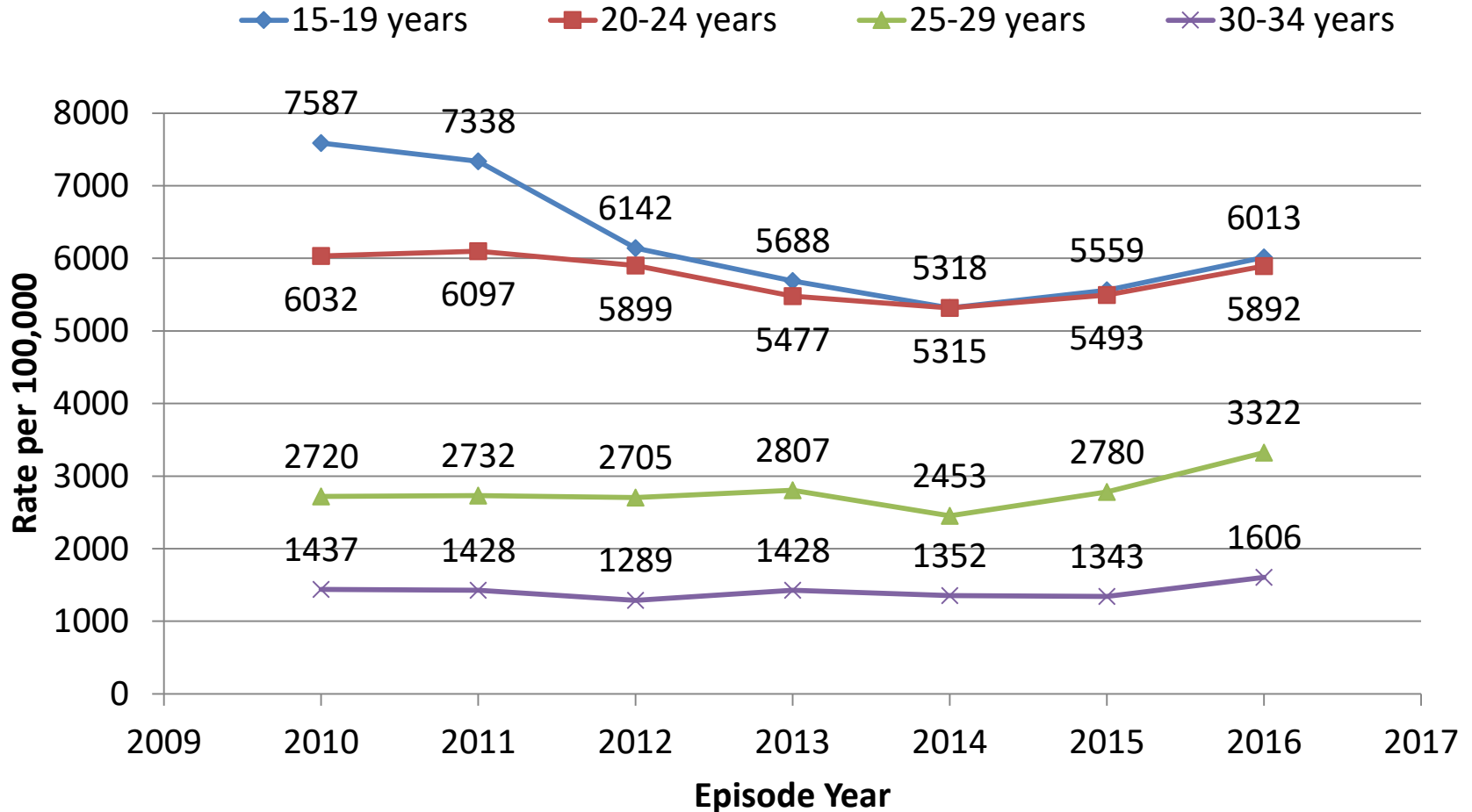


# Chlamydia Rates by Age Group, City of Milwaukee, 2010-2016



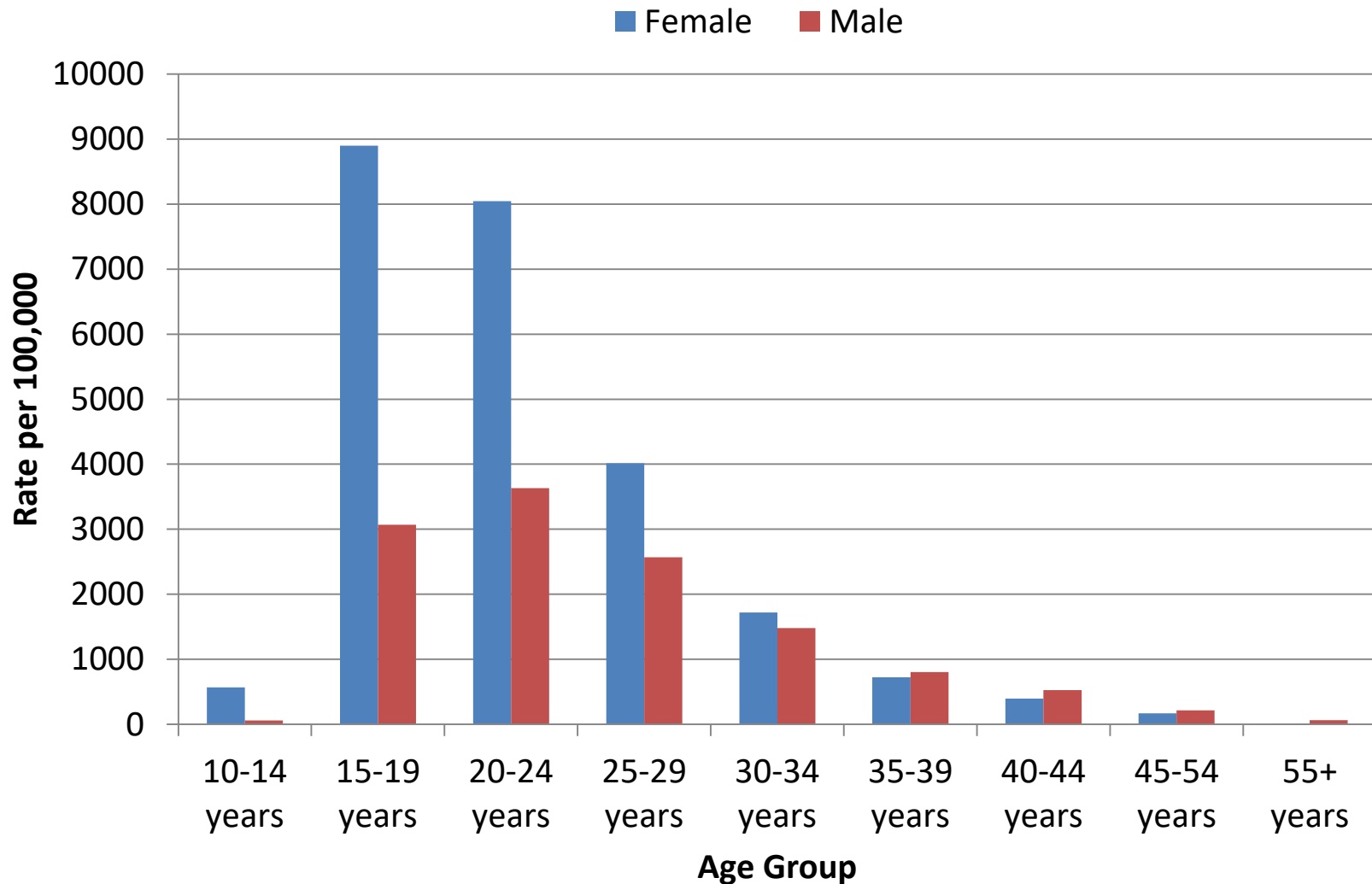
Data sources: WEDSS, accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data.

# Chlamydia Rates in Adolescents and Young Adults, City of Milwaukee, 2010-2016



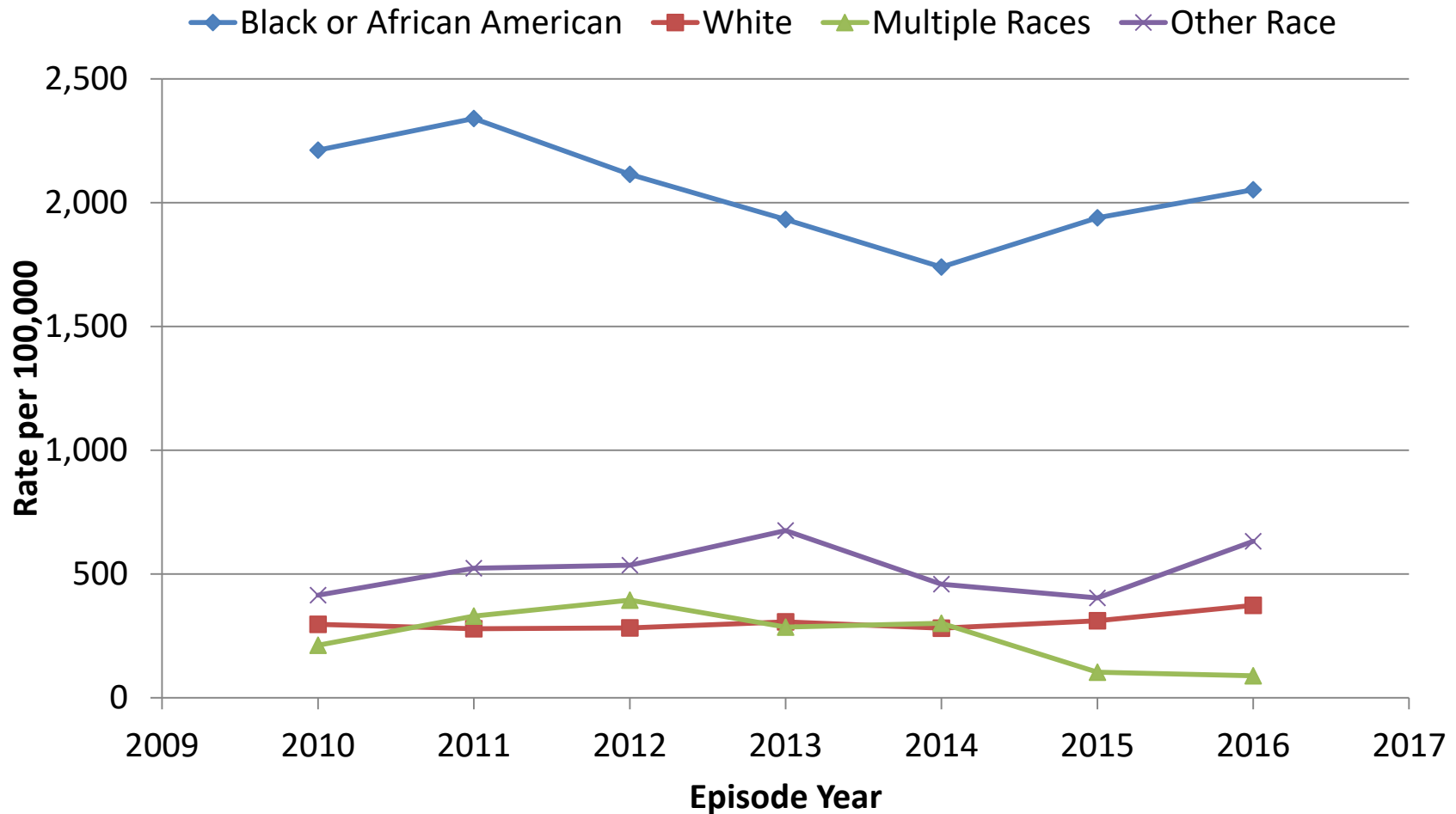
Data sources: WEDSS, accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data.

## Age-specific Chlamydia Rates by Sex, City of Milwaukee, 2016



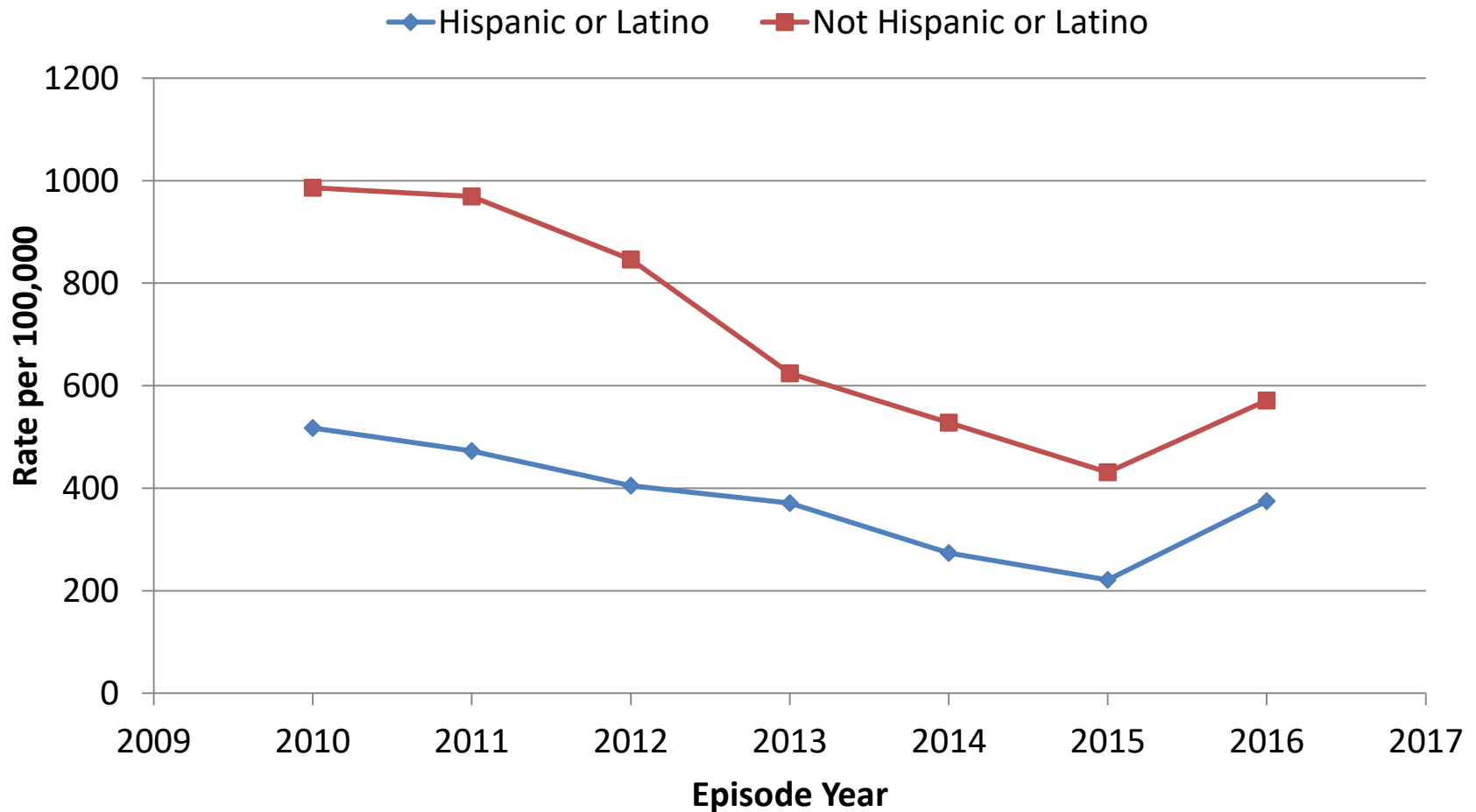
Data sources: WEDSS, accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data.

## Chlamydia Rates by Race, City of Milwaukee, 2010-2016



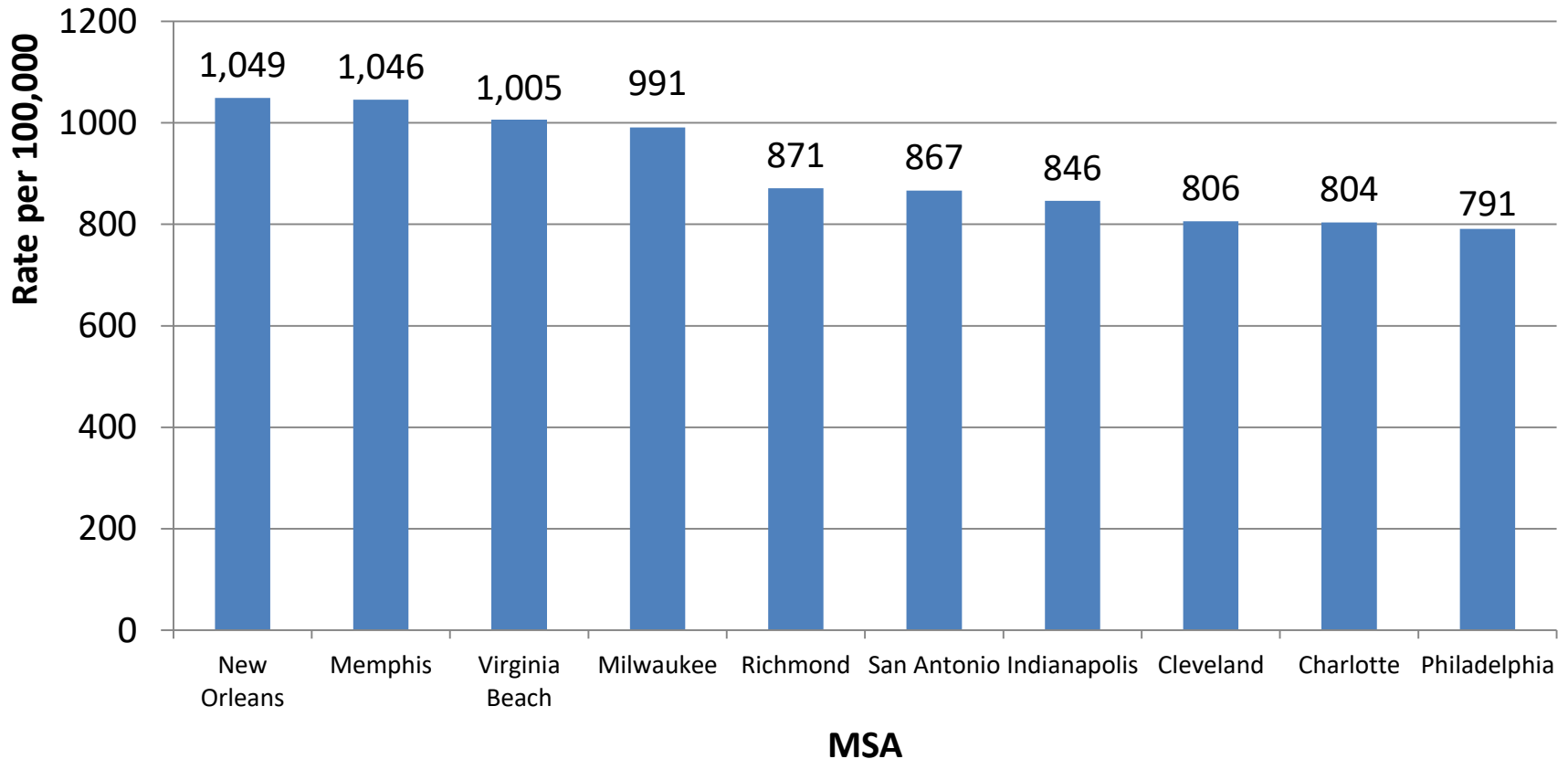
Data sources: WEDSS accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data. Please note that a relatively high proportion of cases were missing information on race.

## Chlamydia Rates by Ethnicity, City of Milwaukee, 2010-2016



Data sources: WEDSS, accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data. Please note that a relatively high proportion of cases were missing information on ethnicity.

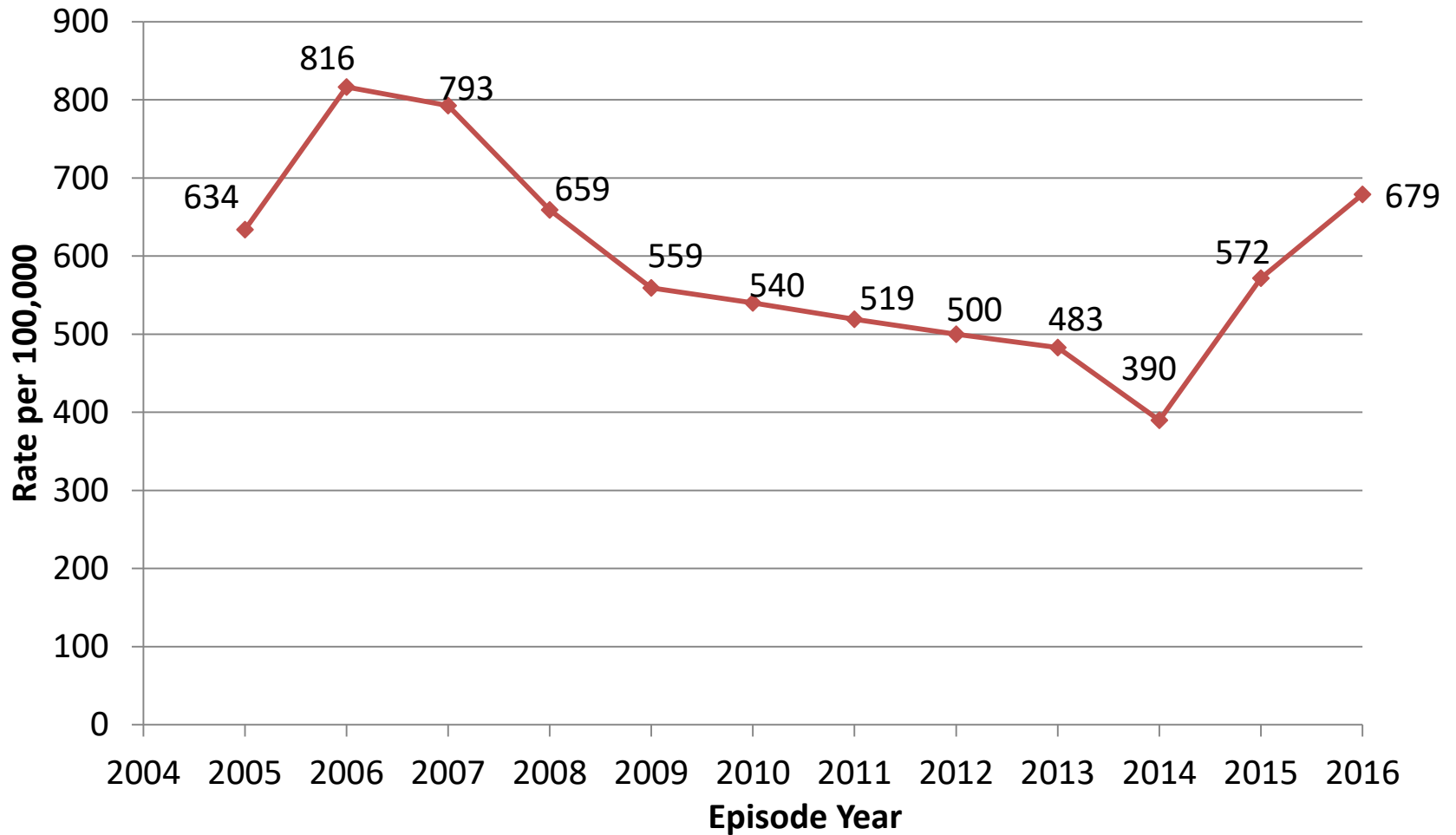
## U.S. Metropolitan Statistical Areas (MSAs) with the Highest Incidence of Reported Chlamydia Cases, 2016



Data source: CDC STD Surveillance 2016. Please note that the "Milwaukee" MSA depicted in the graph above is the Milwaukee-Waukesha-West Allis MSA, which consists of Milwaukee, Ozaukee, Washington, and Waukesha Counties.

# **Gonorrhea Cases Reported in the City of Milwaukee – 2016 Update**

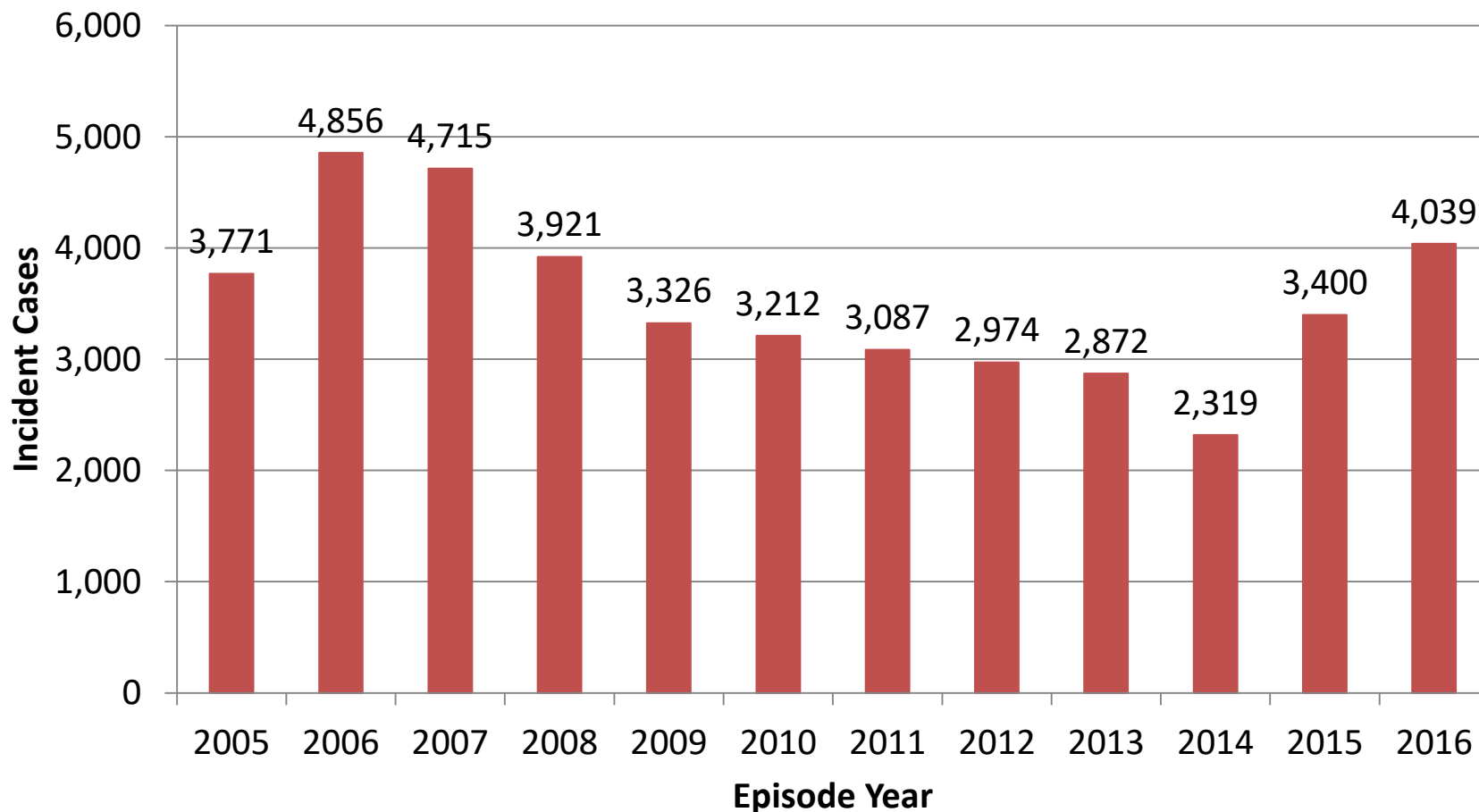
## Gonorrhea Rates, City of Milwaukee, 2005-2016



Data sources: STD-MIS for 2005-2007 and the Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2016, via PHAVR 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

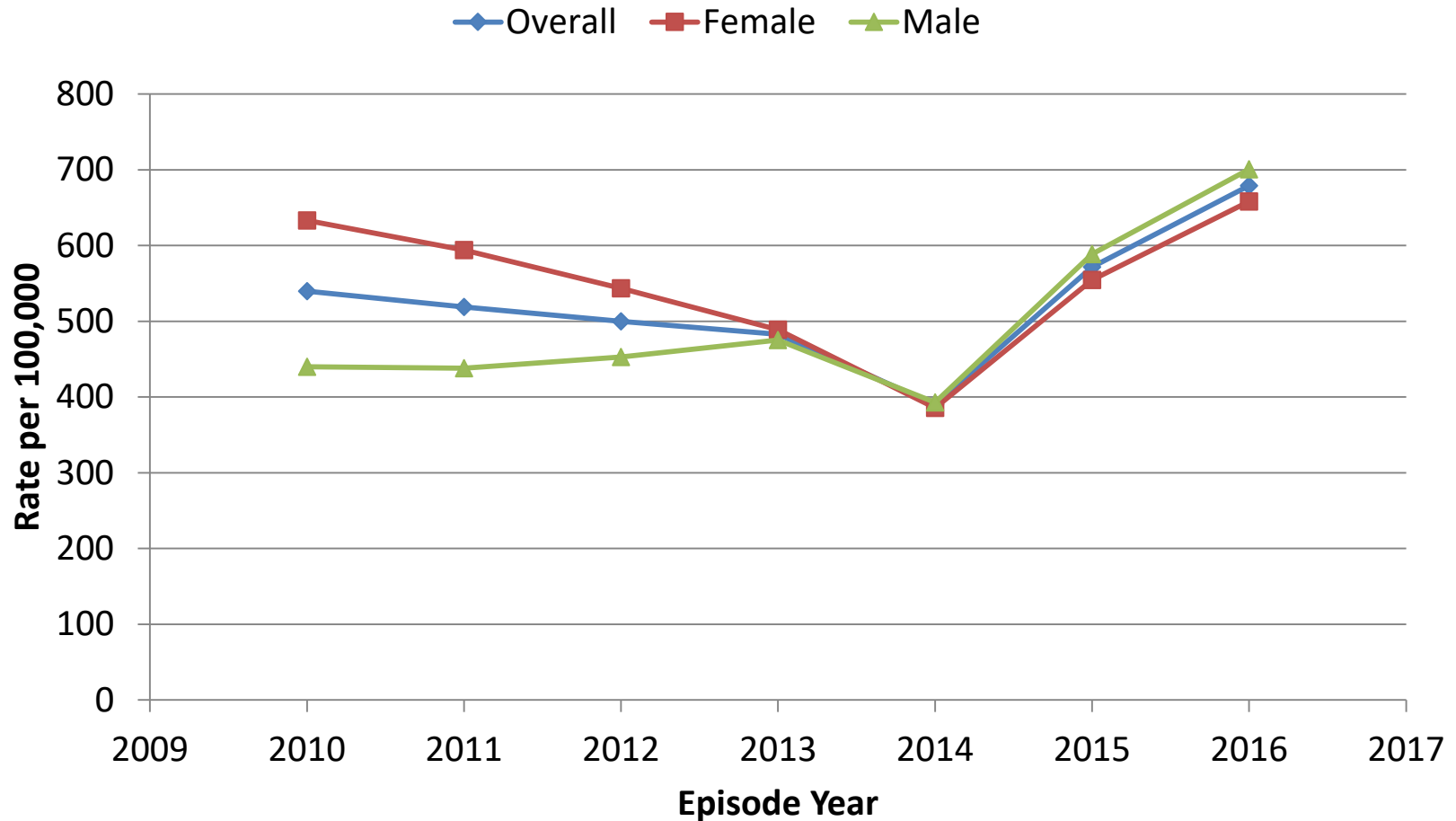


## Incident Cases of Gonorrhea, City of Milwaukee, 2005-2016



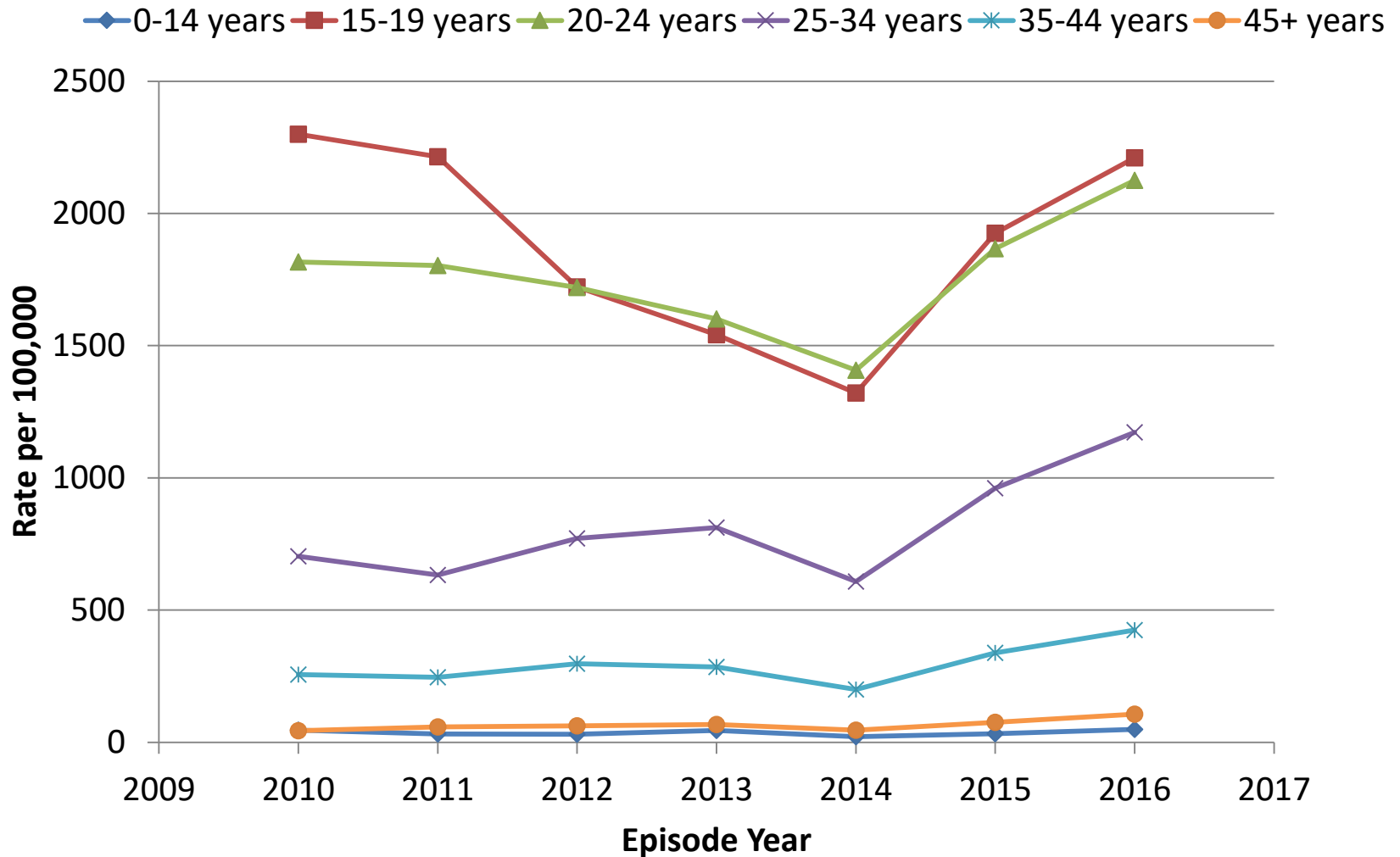
Data sources: STD-MIS for 2005-2007 and the Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2016, via PHAVR 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

## Gonorrhea Rates by Sex, City of Milwaukee, 2010-2016



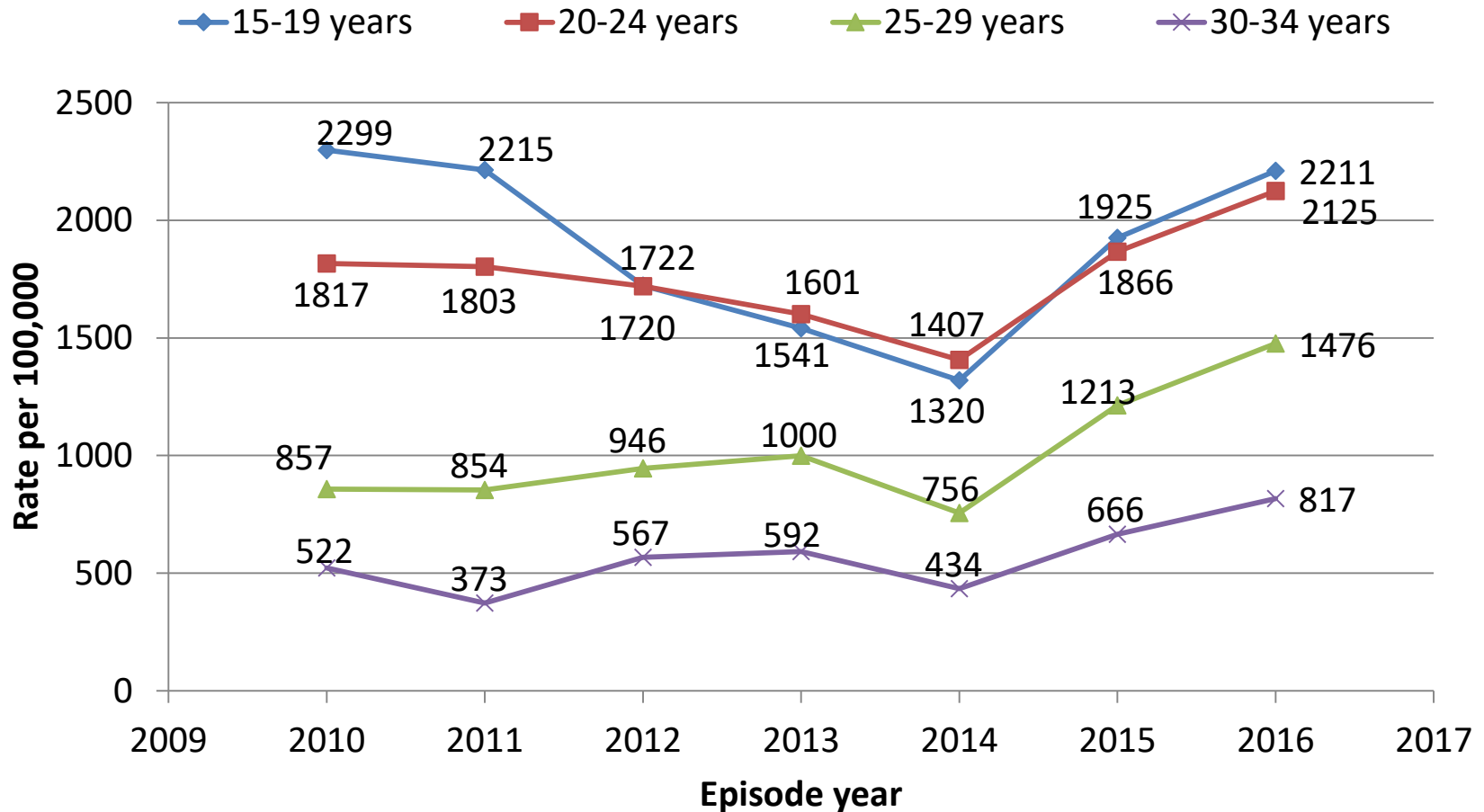
Data sources: WEDSS, accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data.

## Gonorrhea Rates by Age Group, City of Milwaukee, 2010-2016



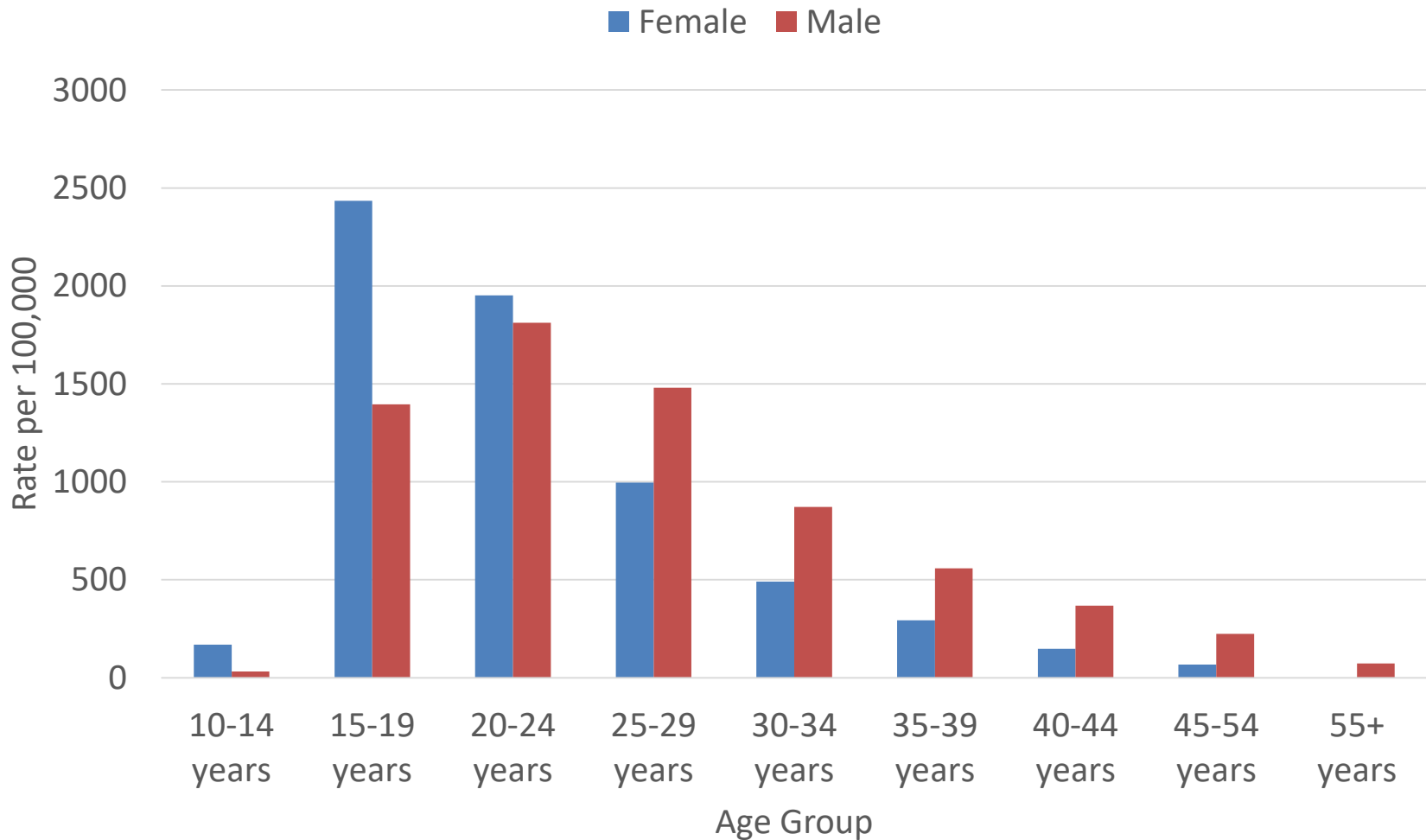
Data sources: WEDSS, accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data.

## Gonorrhea Rates in Adolescents and Young Adults, City of Milwaukee, 2010-2016



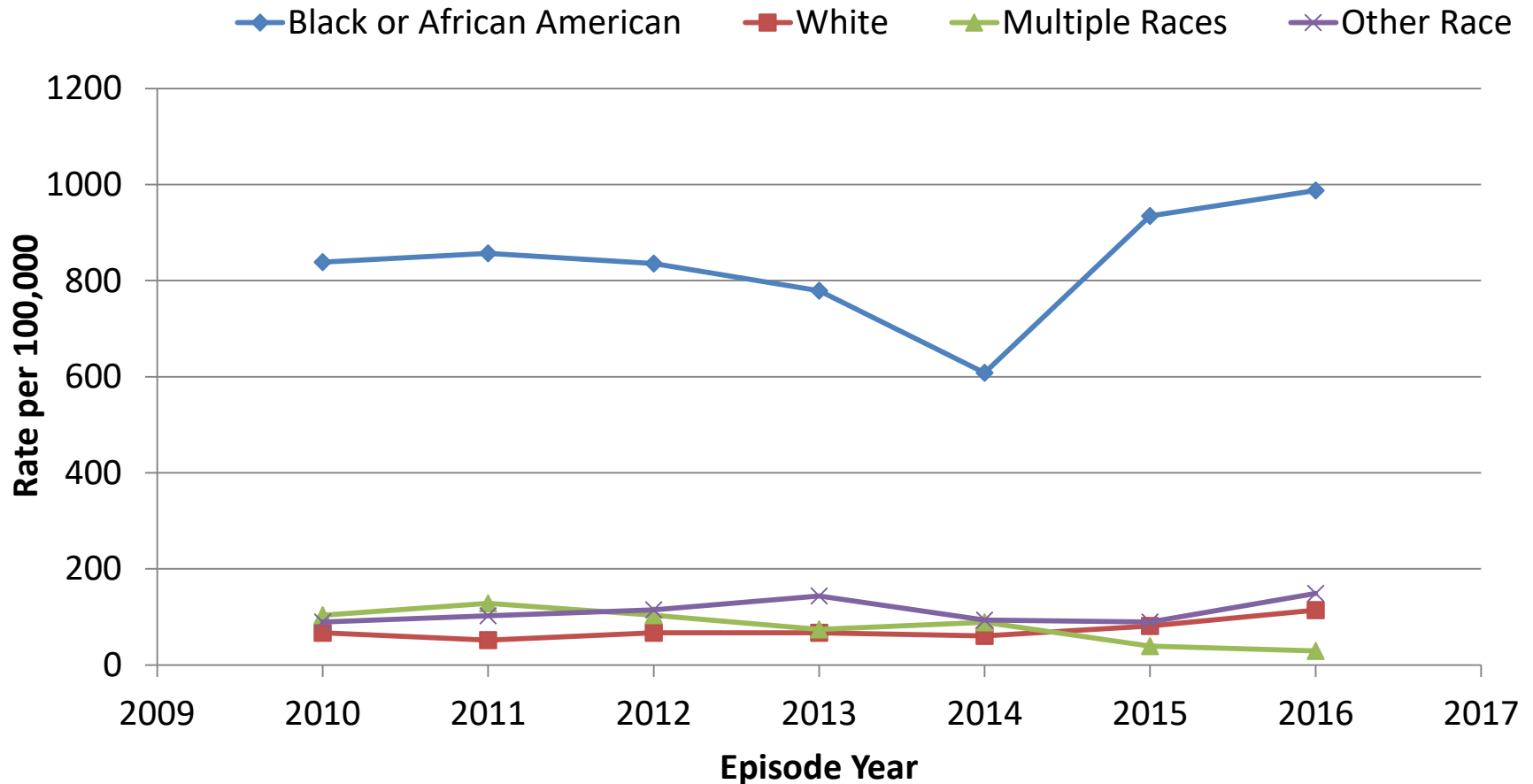
Data sources: WEDSS, accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data.

## Age-specific Gonorrhea Rates by Sex, City of Milwaukee, 2016



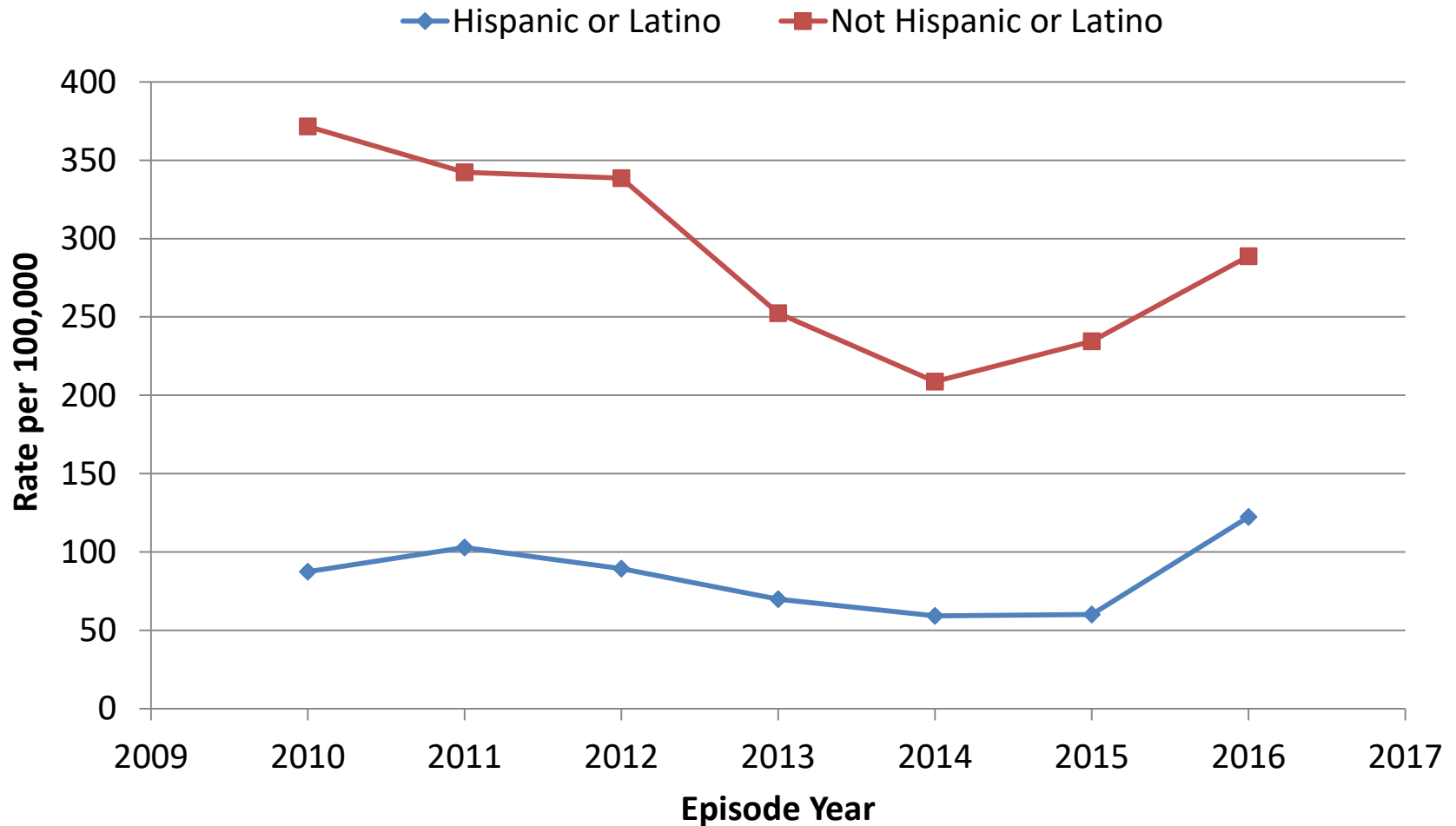
Data sources: WEDSS, accessed via PHIN AVR 11/18/2016. Rates calculated per 100,000 based on 2010 U.S. Census data.

## Gonorrhea Rates by Race, City of Milwaukee, 2010-2016



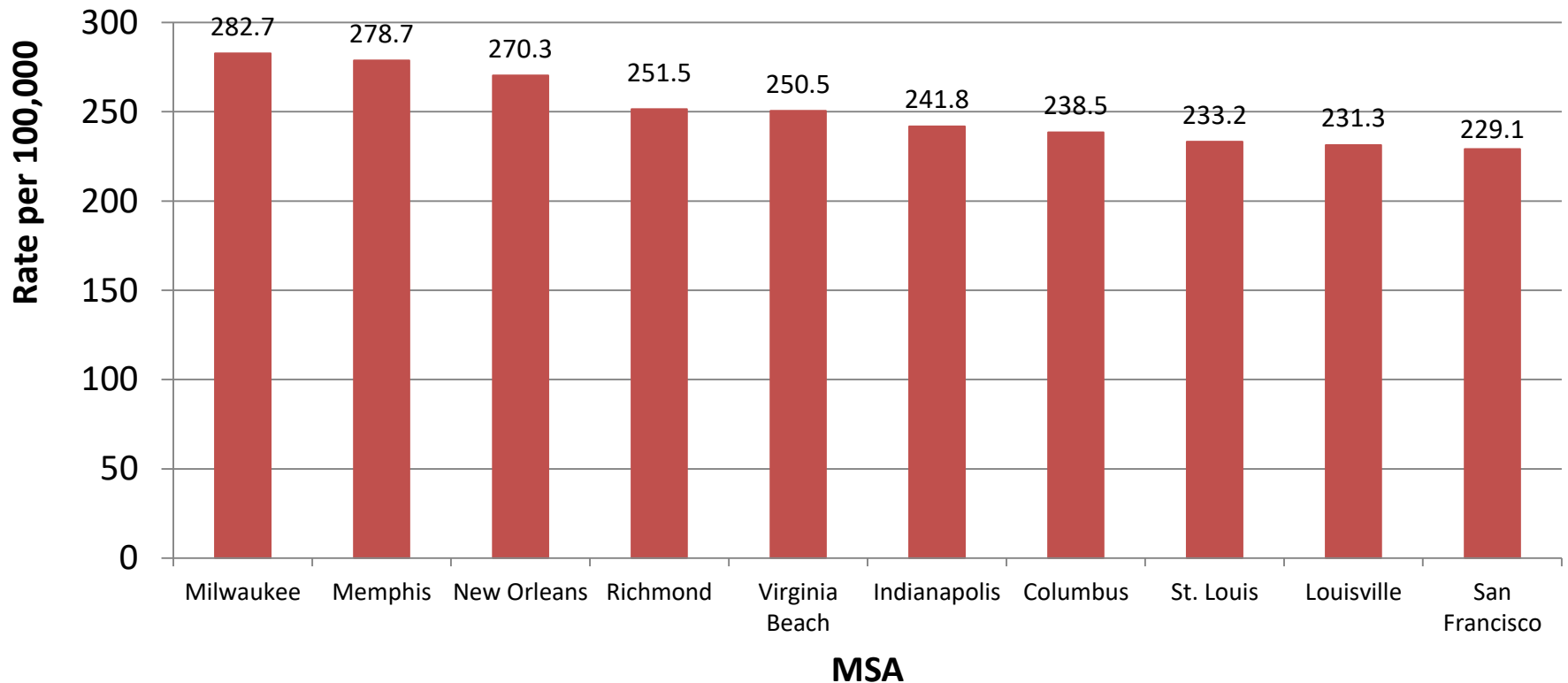
Data sources: WEDSS, accessed via PHIN AVR 11/18/2016. Rates calculated per 100,000 based on 2010 U.S. Census data. Please note that a relatively high proportion of cases were missing information on race.

## Gonorrhea Rates by Ethnicity, City of Milwaukee, 2010-2016



Data sources: WEDSS, accessed via PHAVR 10/4/2017. Rates calculated per 100,000 based on 2010 U.S. Census data.

## U.S. Metropolitan Statistical Areas (MSAs) with the Highest Incidence of Reported Gonorrhea Cases, 2016



Data source: CDC STD Surveillance 2016. Please note that the "Milwaukee" MSA depicted in the graph above is the Milwaukee-Waukesha-West Allis MSA, which consists of Milwaukee, Ozaukee, Washington, and Waukesha Counties.



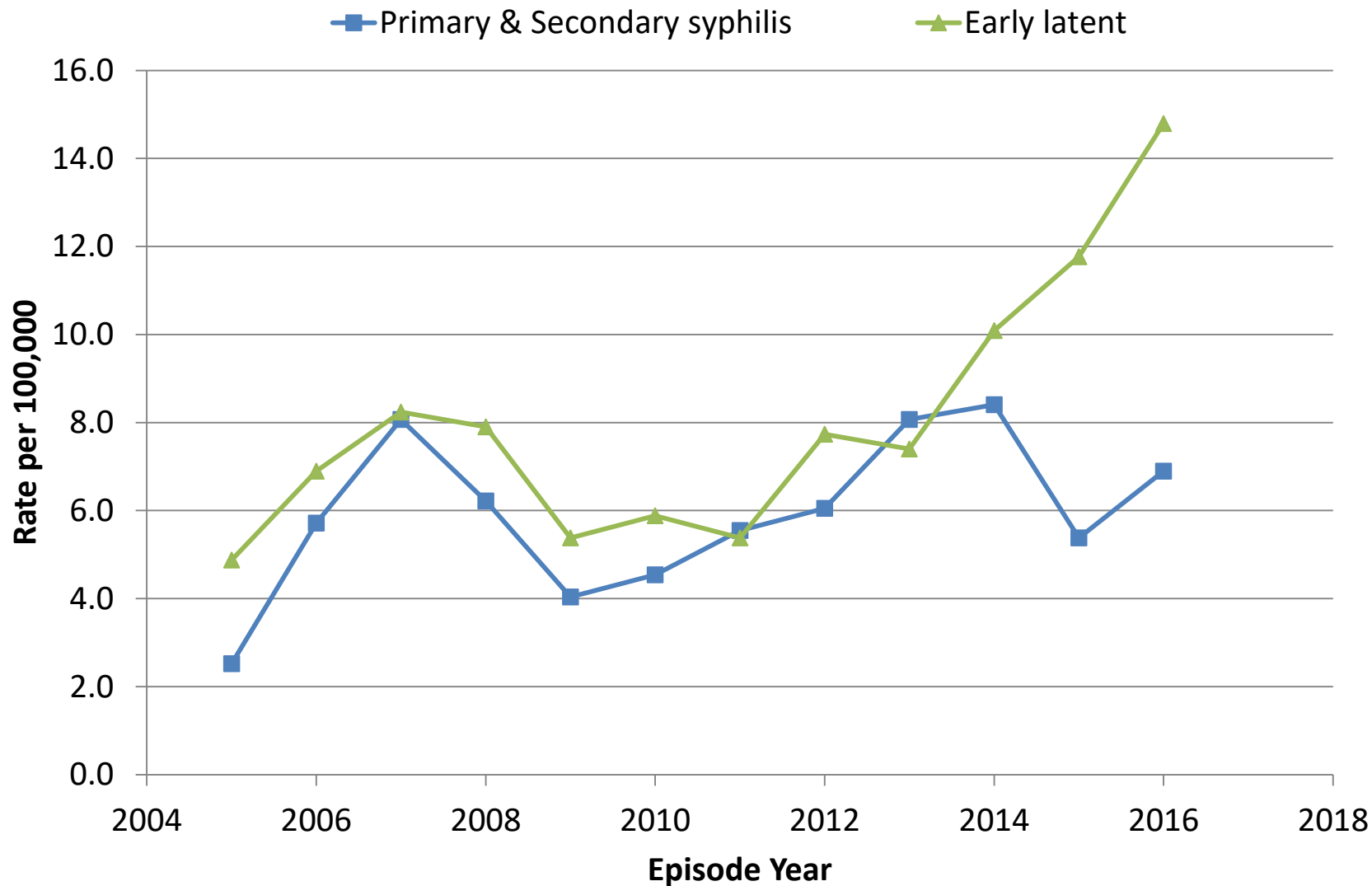
# **Syphilis Cases Reported in the City of Milwaukee – 2016 Update**

# Stages of Syphilis in this Report

- Early syphilis: Includes primary and secondary syphilis stages
  - Most transmissible stages of the disease
- Early latent syphilis:
  - Symptoms of early syphilis have disappeared
  - Applies to cases that were infected within the past year

Source: Syphilis – CDC Fact Sheet. CDC. <http://www.cdc.gov/std/syphilis/stdfact-syphilis-detailed.htm>.  
Last updated November 17, 2016. Accessed November 23, 2016.

## Syphilis Rates in the City of Milwaukee, 2005-2016



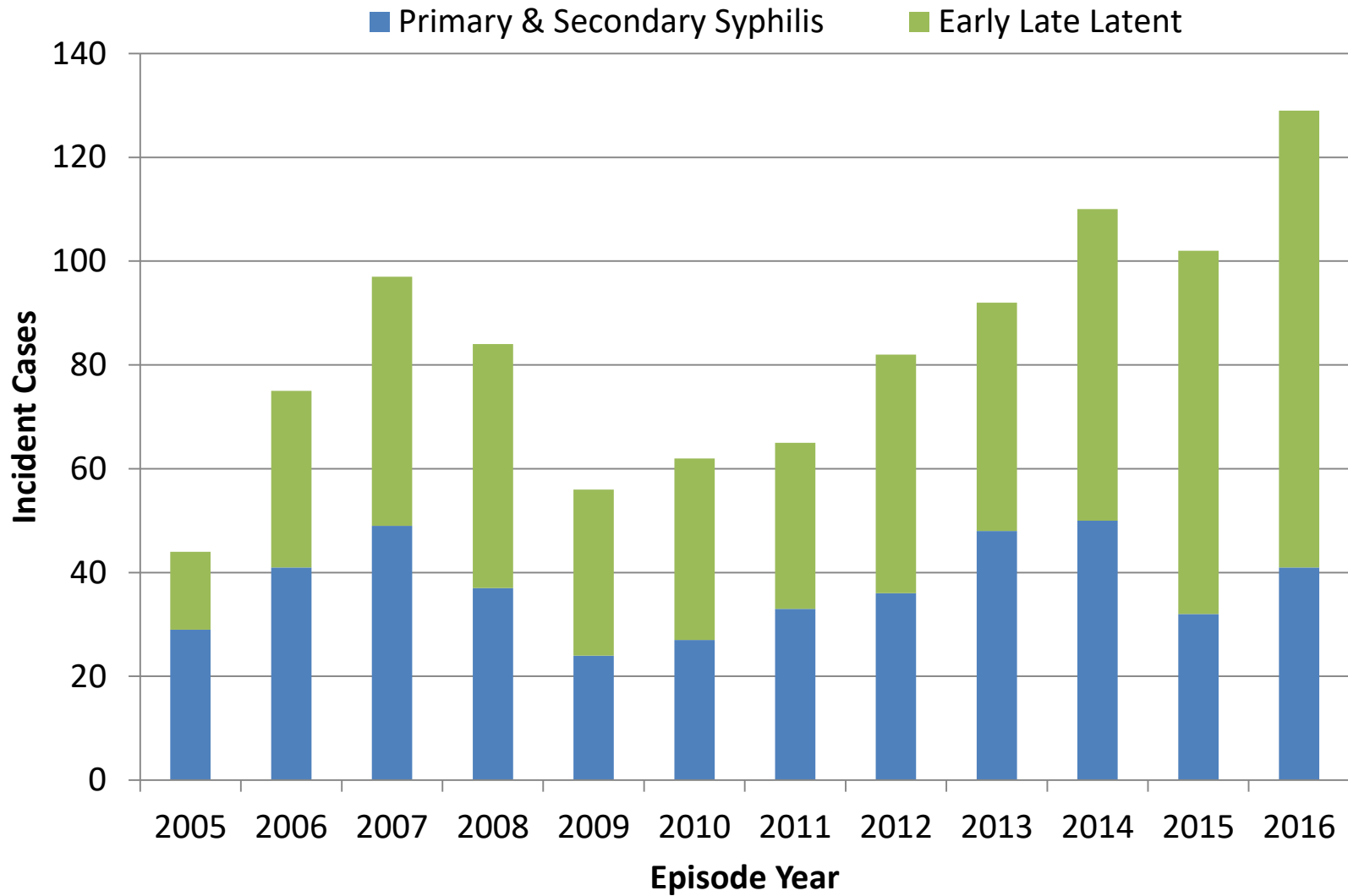
Data sources: The Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2015, via PHAVR 10/4/2017.

Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

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## Incident Syphilis Cases by Stage, City of Milwaukee, 2005-2016



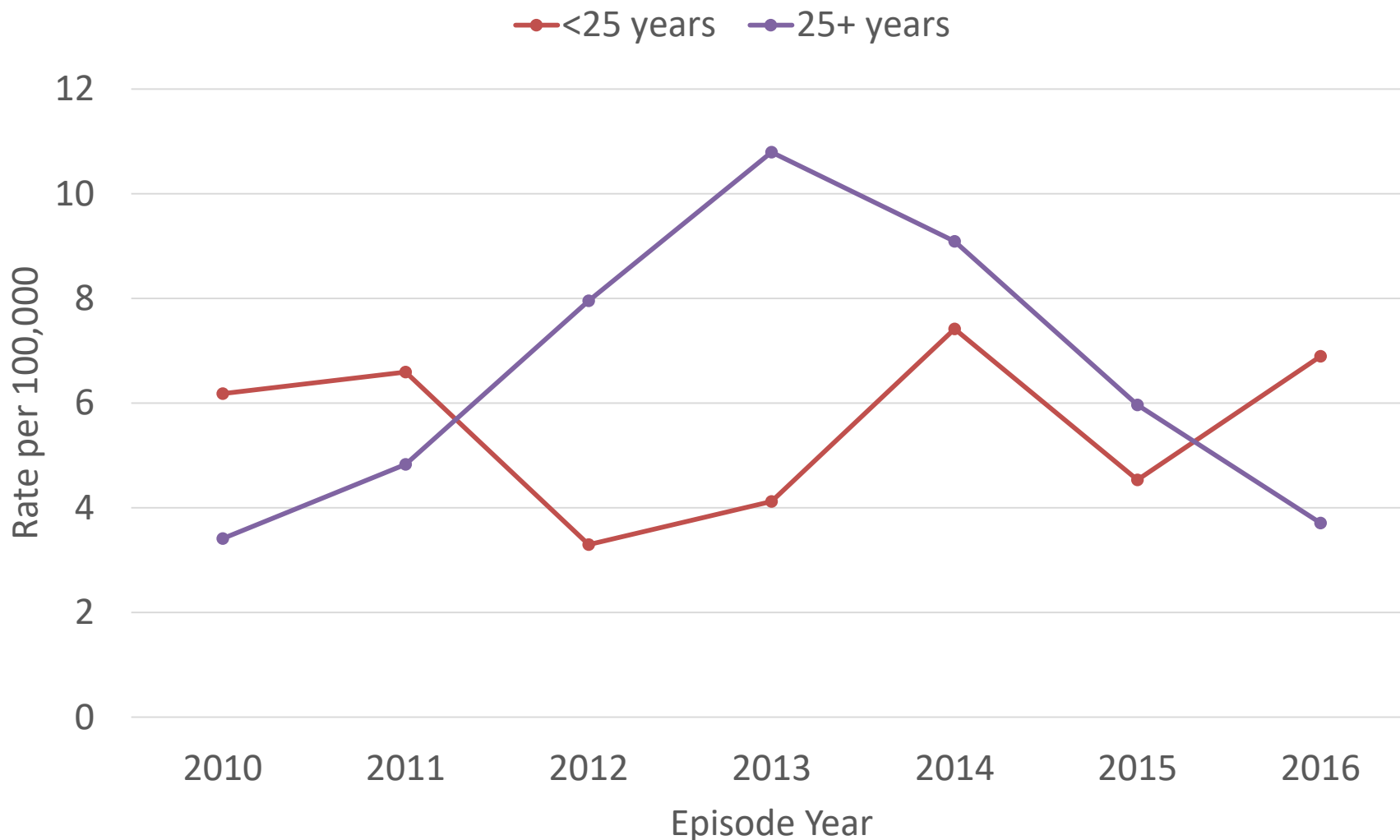
Data sources: STD-MIS for 2005-2007 and the Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2016, via PHAVR accessed 10/4/2017  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

# Primary and Secondary Syphilis Rates by Sex, City of Milwaukee, Five-Year Average Rate: 2012-2016

Sex	Rate per 100,000
Female	1.2
Male	13.2

Data sources: Wisconsin Electronic Disease Surveillance System (WEDSS), via PHAVR accessed 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

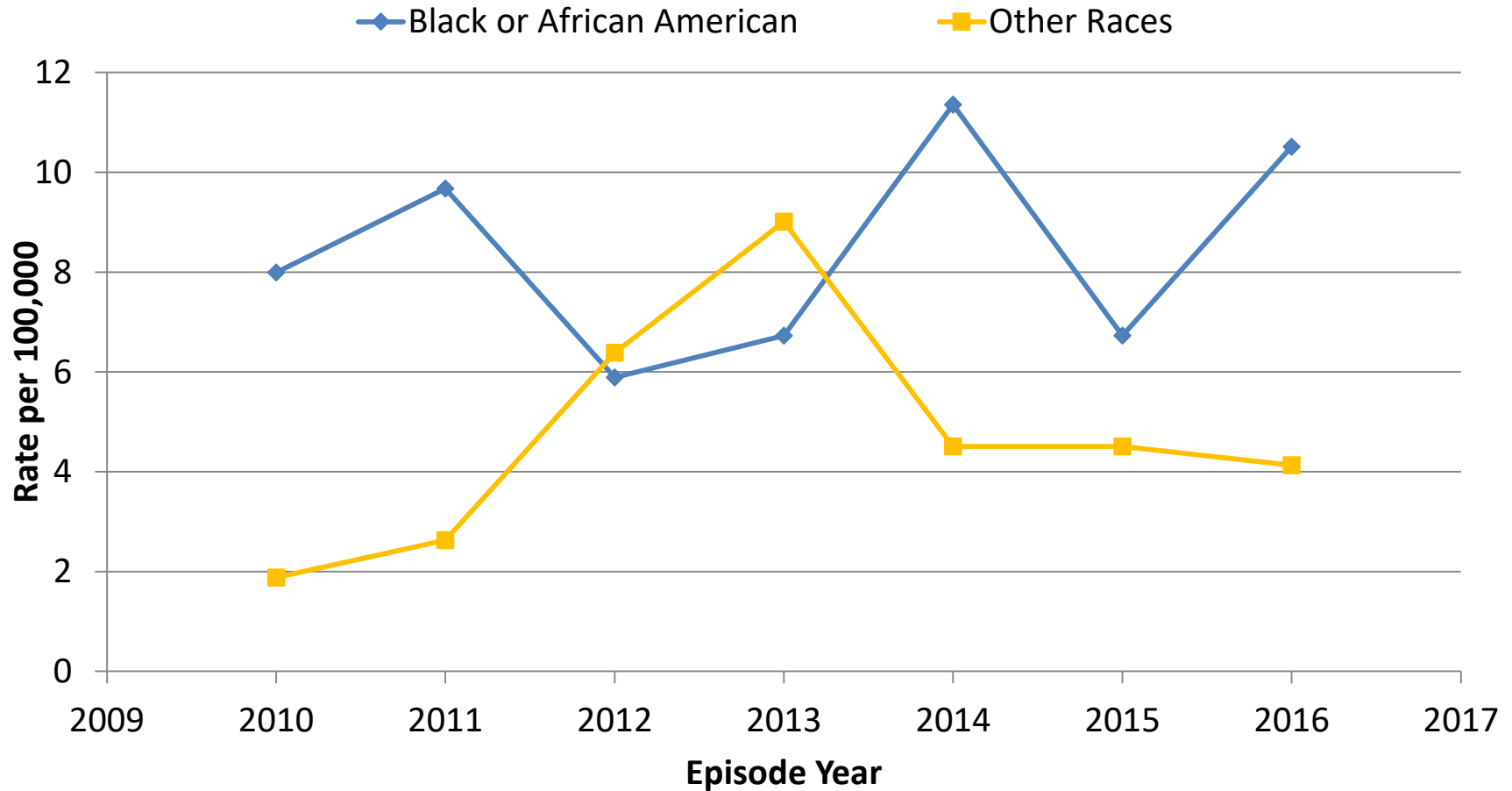
## Primary and Secondary Syphilis Rates by Age Group, City of Milwaukee, 2010-2016



Data sources: The Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2015, via PHAVR 10/4/2017.

Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

## Primary and Secondary Syphilis Rates by Race, City of Milwaukee, 2010-2016



Data sources: The Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2015, via PHAVR 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

# Primary and Secondary Syphilis Rates by Race, City of Milwaukee, Five-Year Average Rate: 2012-2016

Race	Rate per 100,000
Black or African American	8.2
White	5.0
Other race	2.0

Data sources: Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2016, via PHAVR accessed 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.



# **Primary and Secondary Syphilis Rates by Ethnicity, City of Milwaukee, Five-Year Average Rate: 2011-2015**

<b>Ethnicity</b>	<b>Rate per 100,000</b>
Hispanic or Latino	5.2
Not Hispanic or Latino	6.1

Data sources: Wisconsin Electronic Disease Surveillance System (WEDSS) for 2008-2016, via PHAVR accessed 10/4/2017.  
Rates calculated per 100,000 based on U.S. Census Bureau 2010 estimates.

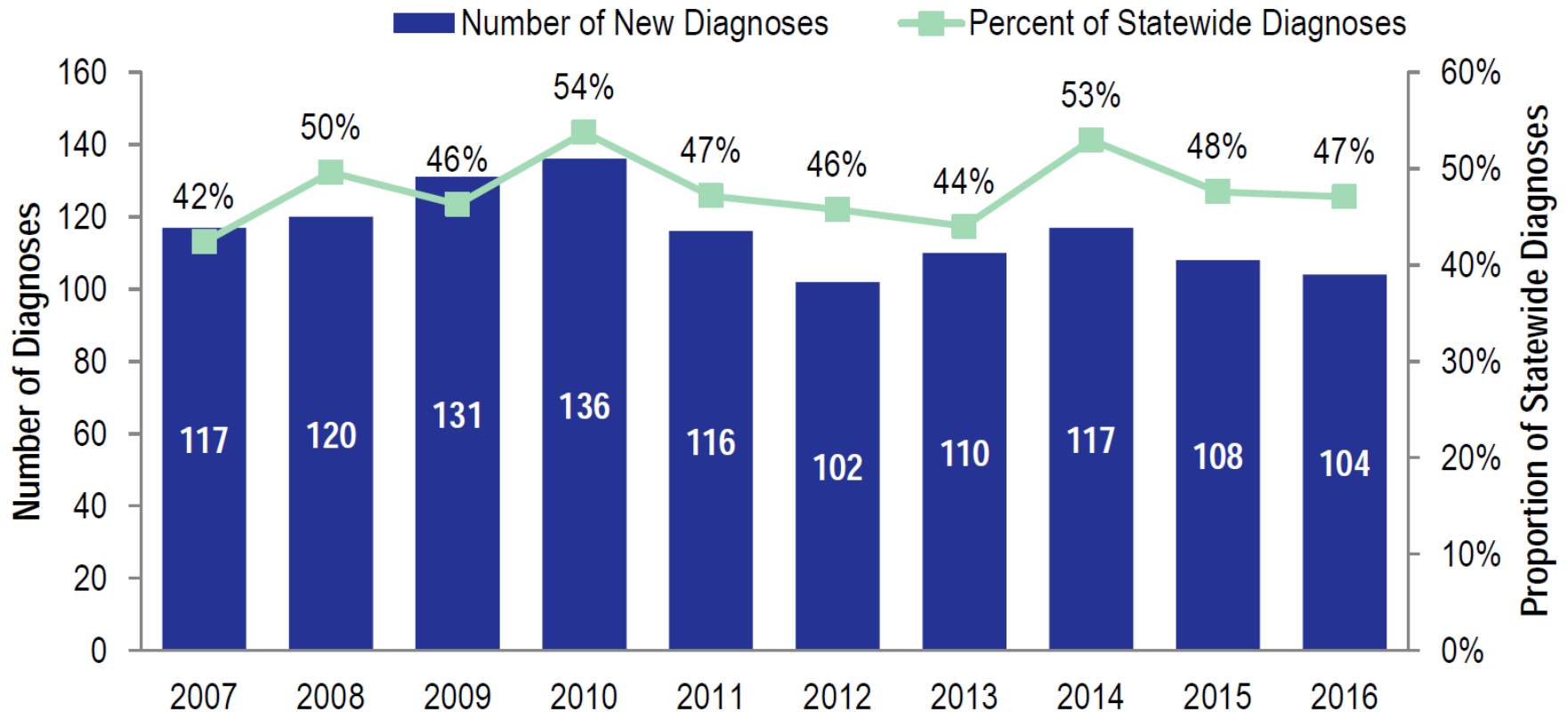
## Males with Primary & Secondary Syphilis by Sexual Orientation, Milwaukee County, 2005-2016



Data source: City of Milwaukee STD/HIV Program Control Program. Note that data are considered provisional and subject to change.

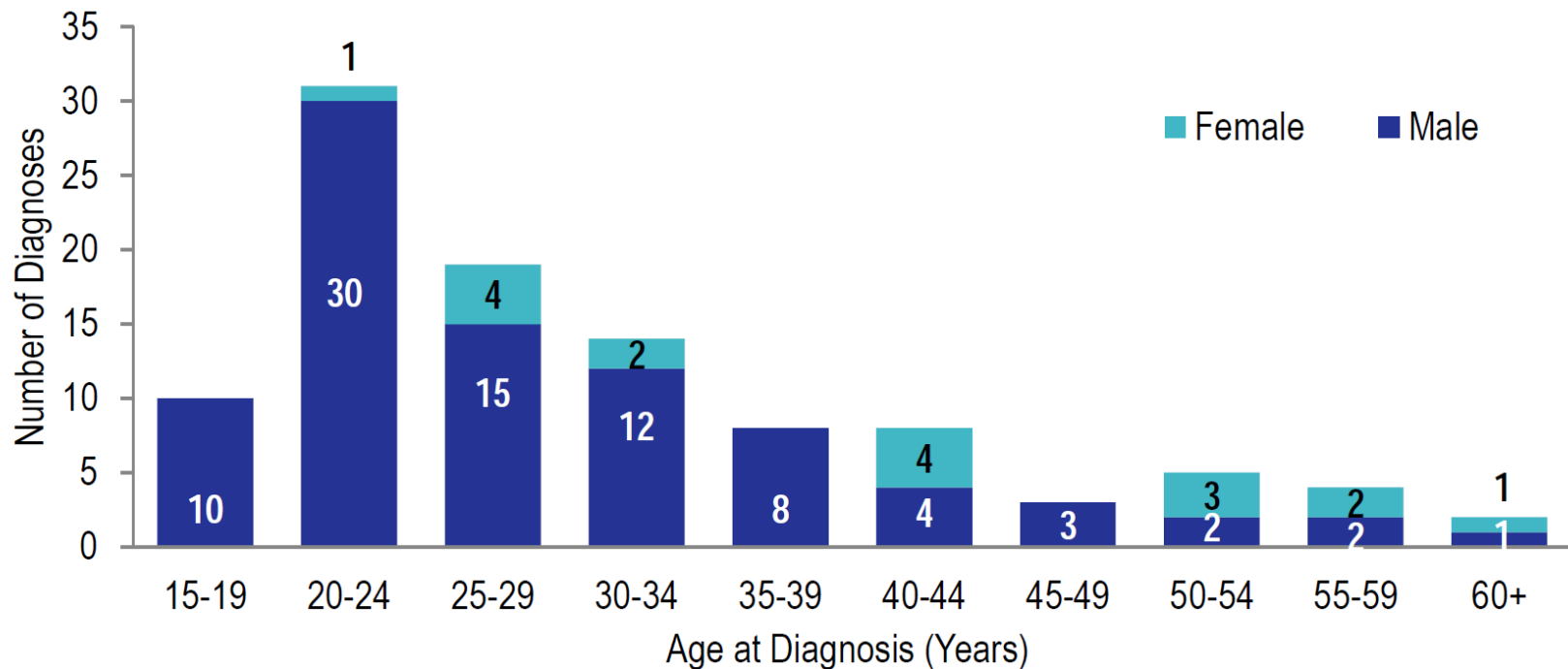
# Newly Reported HIV Cases – 2016 Update

# Number of new HIV diagnoses, and percent of statewide diagnoses, Milwaukee, 2007-2016



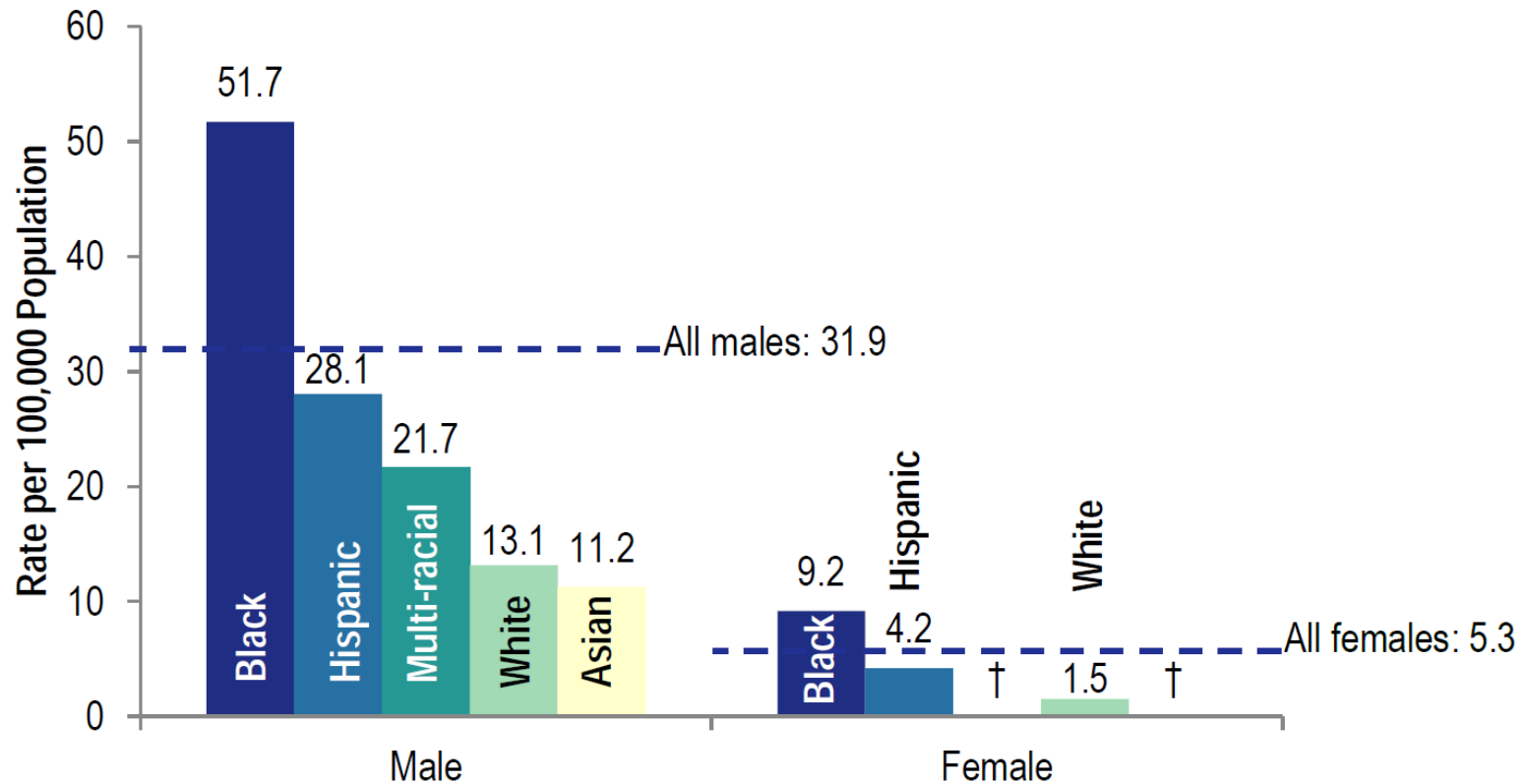
Data source: WI HIV/AIDS Surveillance Annual Review 2016-Addendum: City of Milwaukee: New Diagnoses, Prevalent Cases and Deaths Reported through December 31, 2016.

# Number of HIV diagnoses by age and sex, Milwaukee, 2016



Data source: WI HIV/AIDS Surveillance Annual Review 2016-Addendum: City of Milwaukee: New Diagnoses, Prevalent Cases and Deaths Reported through December 31, 2016.

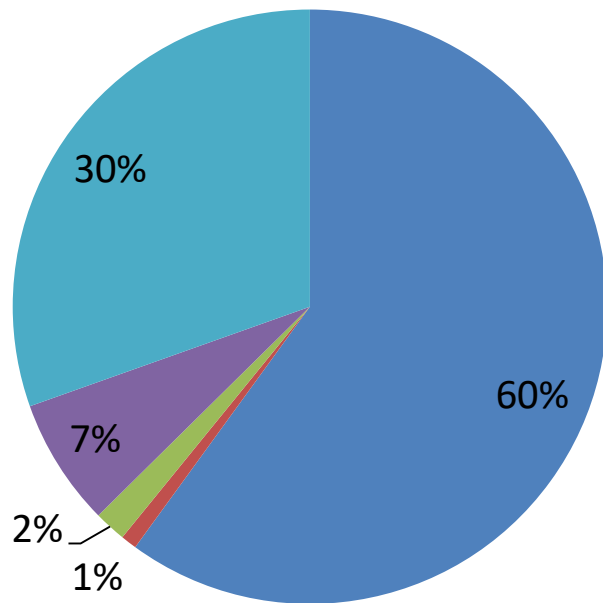
# HIV diagnosis rate by sex and race/ethnicity, Milwaukee, 2012-2016



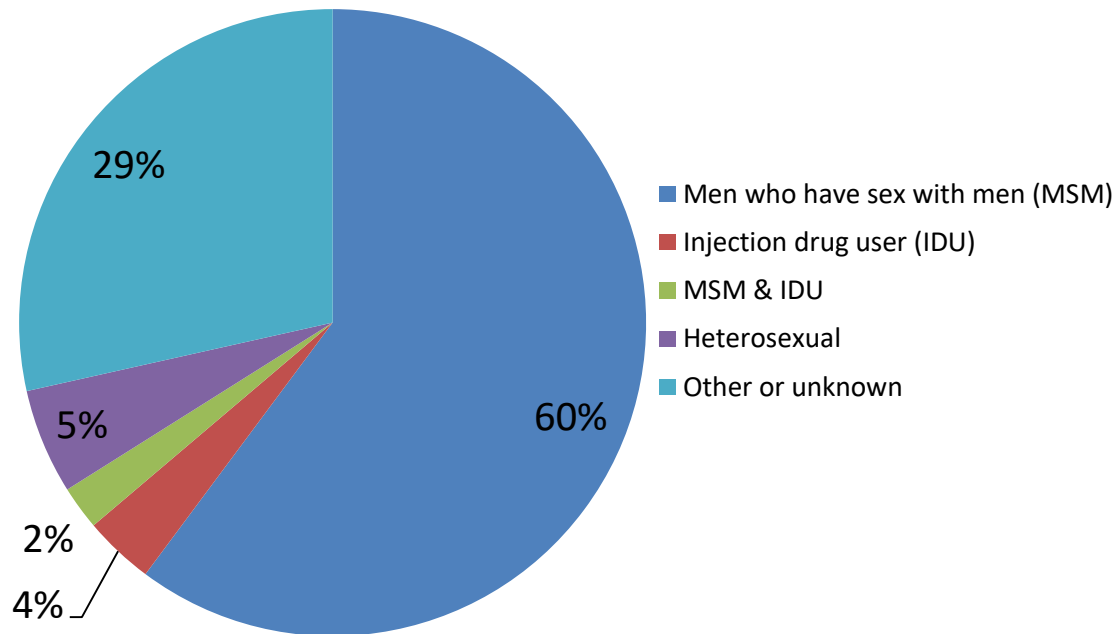
Data source: WI HIV/AIDS Surveillance Annual Review 2016-Addendum: City of Milwaukee: New Diagnoses, Prevalent Cases and Deaths Reported through December 31, 2016.

# Percentage of 2016 HIV Diagnoses in Each Risk Category, Milwaukee County and the State of Wisconsin

## Milwaukee County

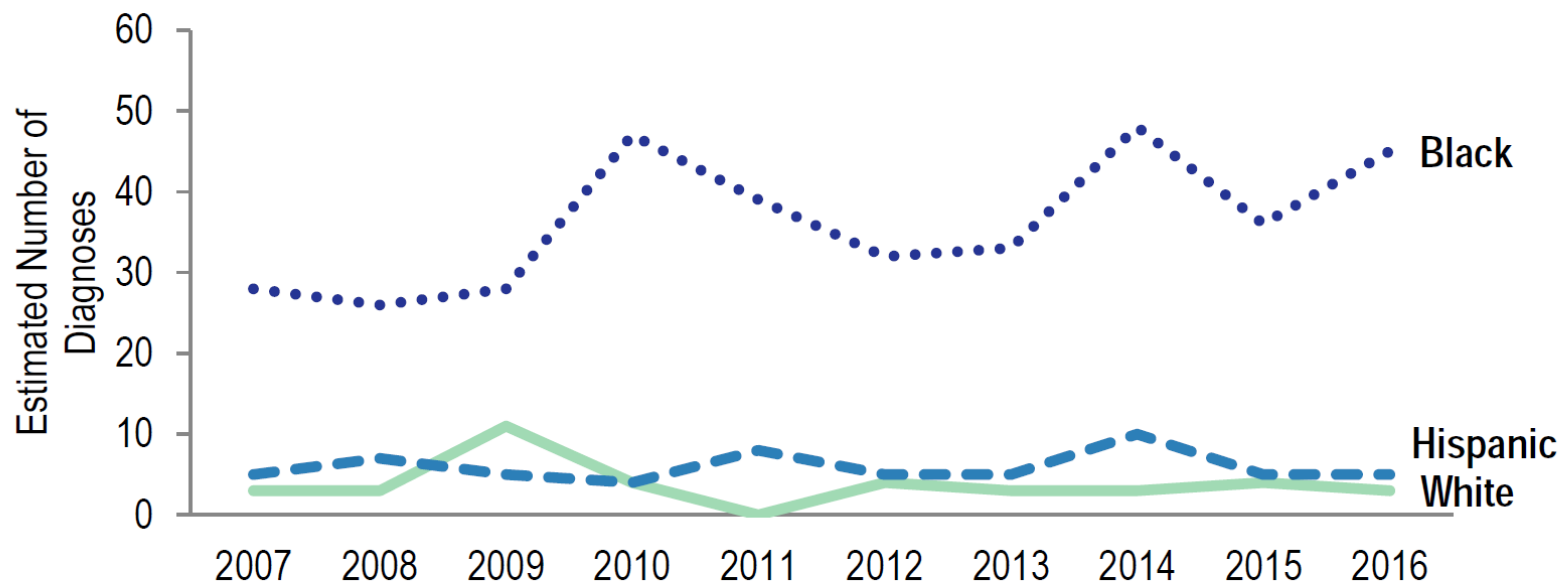


## State of Wisconsin



Data source: WI DHS Interactive Map and Table of County HIV Case Surveillance Data, accessed October 30, 2017

## HIV diagnoses attributed to male-male sexual contact, ages 13-29, by race/ethnicity, City of Milwaukee, 2007-2016

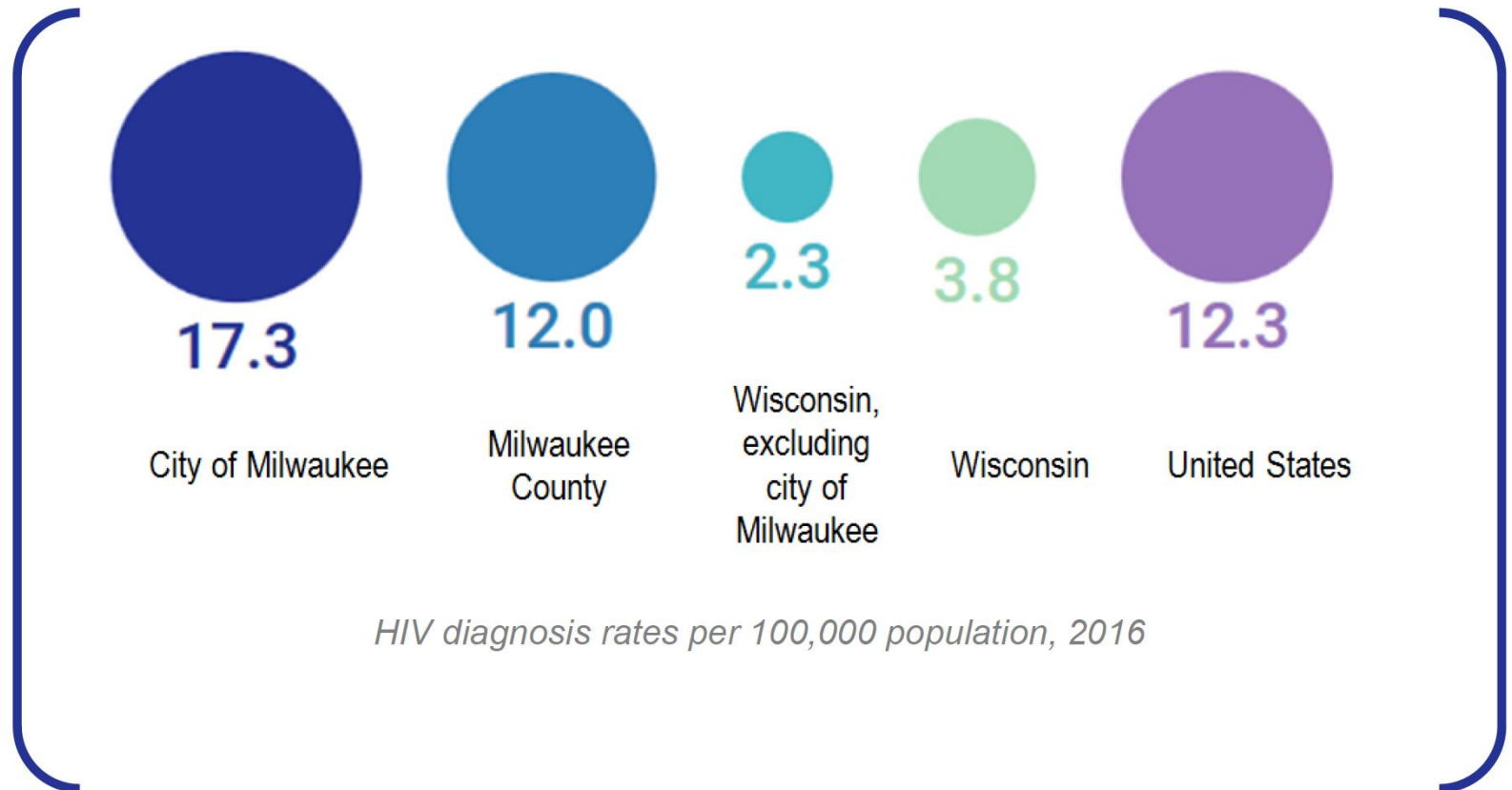


† Also includes diagnoses attributed to both male-male sexual contact and injection drug use. Data have been statistically adjusted to account for those with unknown transmission category.

Data source: WI HIV/AIDS Surveillance Annual Review 2016-Addendum: City of Milwaukee: New Diagnoses, Prevalent Cases and Deaths Reported through December 31, 2016.



# HIV diagnosis rate per 100,000, Milwaukee compared to other geographies, 2016



Data source: WI HIV/AIDS Surveillance Annual Review 2016-Addendum: City of Milwaukee: New Diagnoses, Prevalent Cases and Deaths Reported through December 31, 2016.



Tom Barrett, Mayor  
Bevan K. Baker,  
Commissioner of Health  
[www.milwaukee.gov/health](http://www.milwaukee.gov/health)