

## County of San Diego Monthly STD Report

Volume 8, Issue 8: Data through April 2016; Report released August 15, 2016.



Table 1. STDs Reported Among County of San Diego Residents, by Month and Previous 12 Months Combined.

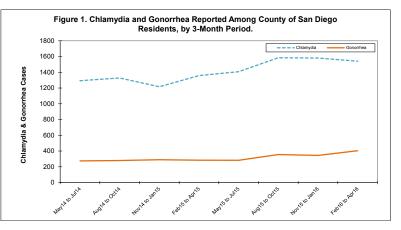
		2015 Previous 12-	2016 Previous 12- Month Period*			
	Apr	Month Period*				
Chlamydia	1379	15586	1597	18401		
Female age 18-25	522	6309	614	7311		
Female age ≤ 17	65	676	58	808		
Male rectal chlamydia	49	506	59	646		
Gonorrhea	297	3385	401	4163		
Female age 18-25	43	482	59	543		
Female age ≤ 17	7	60	7	81		
Male rectal gonorrhea	25	443	53	582		
Early Syphilis (adult total)	86	757	65	824		
Primary	16	142	12	169		
Secondary	37	279	24	314		
Early latent	33	336	29	341		
Congenital syphilis	1	4	0	8		
HIV Infection <sup>†</sup>						
HIV (not AIDS)	37	445	50	469		
AIDS	16	248	17	199		

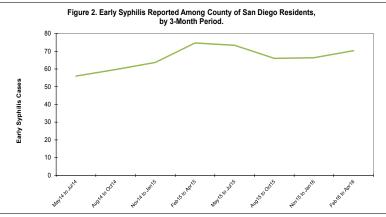
<sup>\*</sup> Cumulative case count of the previous 12 months

Table 2. Selected STD Cases and Annualized Rates per 100,000 Population for San Diego County by Age and Race/Ethnicity, Year to Date.

Tor San Diego County by Age and Nace/Ethnicity, Tear to Date.											
	All Races*		Asian/PI		Black		Hispanic		White		
	cases	rate	cases	rate	cases	rate	cases	rate	cases	rate	
All ages											
Chlamydia	6448	622.8	31	24.9	114	247.5	431	119.8	253	50.1	
Gonorrhea	1608	155.3	24	19.3	148	321.3	356	99.0	321	63.5	
Early Syphilis	287	27.7	9	7.2	23	49.9	104	28.9	118	23.4	
Under 20 yrs											
Chlamydia	1047	390.5	4	13.4	16	132.8	63	49.7	22	22.1	
Gonorrhea	127	47.4	2	6.7	13	107.9	37	29.2	10	10.1	
Early Syphilis	13	4.8	2	6.7	0	0.0	10	7.9	1	1.0	

Note: Rates calculated using 2015 SANDAG population estimates.





**Note:** All data are provisional. Case counts are based on the earliest of date of diagnosis, date of specimen collection, and treatment date. Totals for past months might change because of delays in reporting from labs and providers.

## **Editorial Note: Gonococcal Antimicrobial Susceptibility Trends**

The threat of antibiotic-resistant *Neisseria gonorrhoeae*, or a gonorrhea "superbug," is an issue of major public health importance that has prompted progressively more aggressive treatment strategies in recent years. The **Gonococcal Isolate Surveillance Project (GISP)** was established in 1986 to monitor antimicrobial susceptibility trends in *N. gonorrhoeae* in the United States (U.S.). GISP is a collaborative project among selected STD clinics, five regional laboratories, and the Centers for Disease Control and Prevention (CDC). Participating sites submit up to the first 25 urethral isolates of *N. gonorrhoeae* from men with symptomatic urethritis to regional laboratories each month[1]. The laboratories perform antimicrobial susceptibility testing by agar dilution for multiple agents, including but not limited to azithromycin, cefixime and ceftriaxone[2]. Results from the GISP have informed national strategies for gonorrhea treatment, including the **recommendation for <u>dual</u> treatment for <u>all</u> gonococcal infections, regardless of chlamydia test results, with a combination of intramuscular ceftriaxone plus oral azithromycin[3].** 

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<sup>†</sup> New infections are reported either as HIV, or if an individual was also diagnosed with AIDS within one month, as AIDS.

<sup>\*</sup> Includes cases designated as "other," "unknown," or missing race/ethnicity.



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COUNTY OF SAN DIEGO
HEALTH AND HUMAN SERVICES AGENCY

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## **Editorial Note: Gonococcal Antimicrobial Susceptibility Trends (Continued)**

The CDC recently published an analysis of 2013-14 GISP data in the *Morbidity and Mortality Weekly Report* (MMWR) that highlighted **increases in the prevalence of** *N. gonorrhoeae* **isolates with reduced susceptibility to azithromycin** (Azi-RS, defined as a minimum inhibitory concentration, or MIC, of ≥2.0 µg/mL). Although the overall percentage of Azi-RS isolates was low during 2000-2013, it increased from 0.6% in 2013 to 2.5% in 2014. Increase in Azi-RS prevalence was observed in all regions but was greatest in the Midwest, which is different from the epidemiology of other resistance phenotypes that typically emerge in Hawaii and then California. This difference in epidemiology of Azi-RS indicates possible domestic selection pressure, rather than importation from East Asia and other regions, which may be due to the frequent use of azithromycin to treat respiratory and other non-sexually transmitted infections in the U.S[4]. Preliminary 2015-2016 data from California GISP sites, which currently include San Diego, Los Angeles, Orange County, and San Francisco, indicate continuation of this trend, with Azi-RS prevalence of 1.10% in 2015 and 4.63% for January-April 2016 [preliminary unpublished data provided by the California Department of Public Health(CDPH)].

The prevalence of reduced susceptibility to ceftriaxone (Cro-RS, defined as MIC  $\geq$ 0.125 µg/mL) has remained relatively low nationally (i.e., 0.1-0.4% during 2000-2014)[4] and in California (i.e., 0-0.69% during 2000-2015) [preliminary unpublished data from CDPH], possibly because more mutations are required to confer Cro-RS than are required to confer reduced susceptibility to the oral cephalosporin cefixime (Cfo-RS, defined as MIC  $\geq$ 0.250 µg/mL). The prevalence of Cfo-RS increased from 2006 (0.1%) to 2010 (1.4%), decreased to 0.4% in 2013, and then increased to 0.8% in 2014. In California, prevalence of Cfo-RS was 3.86% in 2010 and decreased to 0.37% in 2015 [preliminary unpublished data provided by CDPH].

In conclusion, analysis of national and state gonococcal susceptibility surveillance data supports the effectiveness of treatment guideline changes, including 1) the use of dual therapy for all gonococcal infections; 2)
the increase in recommended dosage of intramuscular ceftriaxone to 250 mg; and 3) the removal of oral
cefixime and doxycycline from recommended treatment regimens[3]. Although it is unclear whether the increasing prevalence of Azi-RS will continue, this observation heightens concerns about future efficacy of gonorrhea treatment, since azithromycin is part of recommended and alternative treatment regimens for gonorrhea[4].
Providers can help to preserve these treatment options by following CDC recommendations for gonorrhea testing
and treatment[3], ensuring that all sexual partners of gonorrhea cases from the previous 60 days are evaluated
and treated, and reporting gonorrhea cases to the health department within seven days of diagnosis and cases
of suspected treatment failure within 24 hours[5]. For information about STD case reporting, please click here.

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