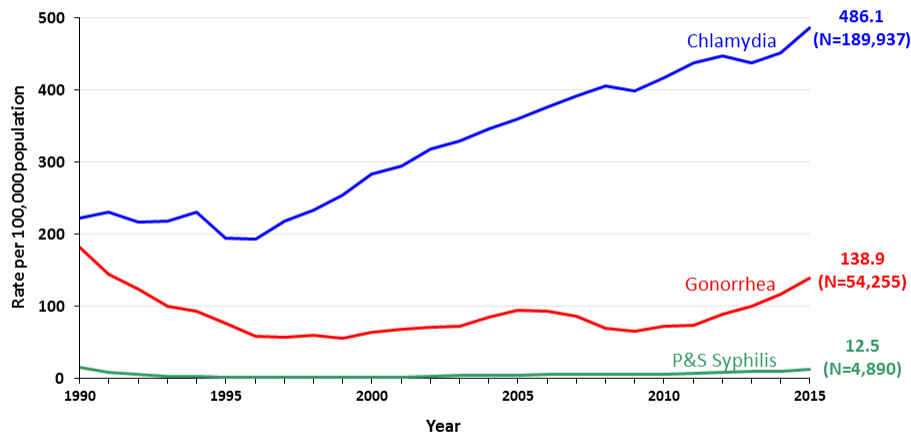


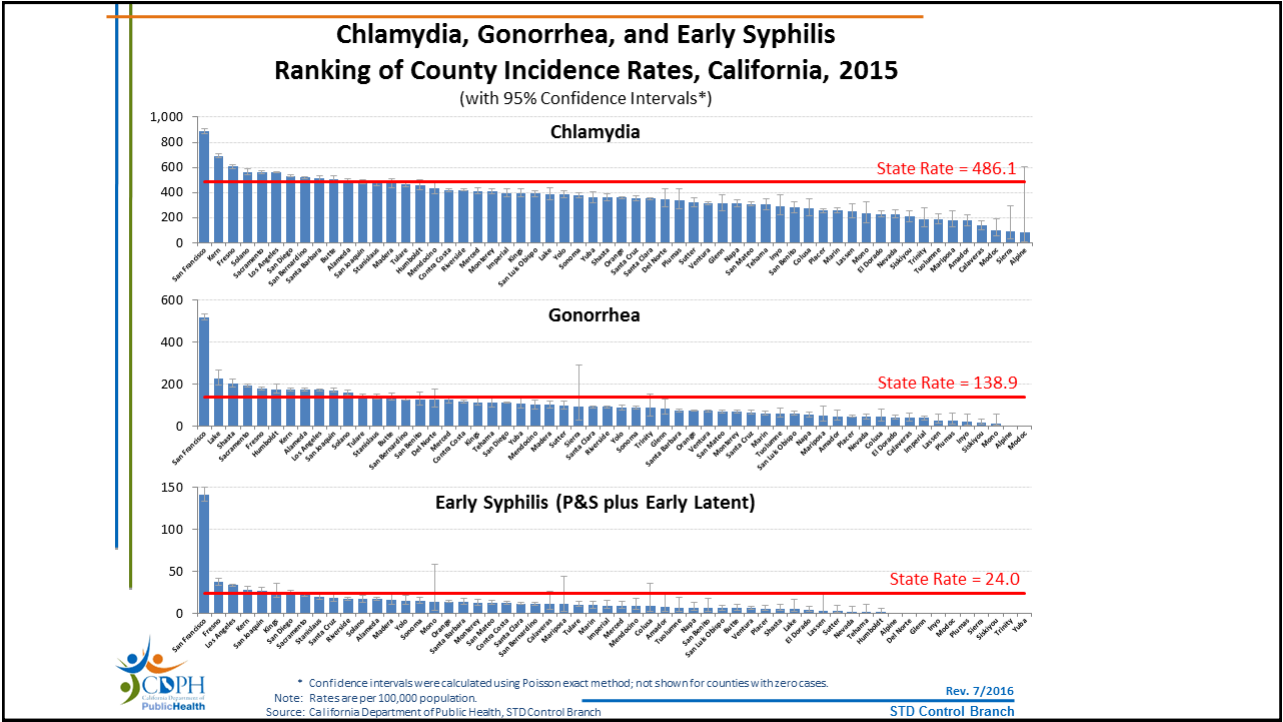
Orange County STD Epidemiology Update and Role of the Public Health Department

October 13, 2016
Christopher Ried, MD
Orange County Health Care Agency
Medical Director of HIV/STD Services
STD Controller

**Chlamydia, Gonorrhea, and Primary & Secondary Syphilis
California Incidence Rates, 1990–2015**

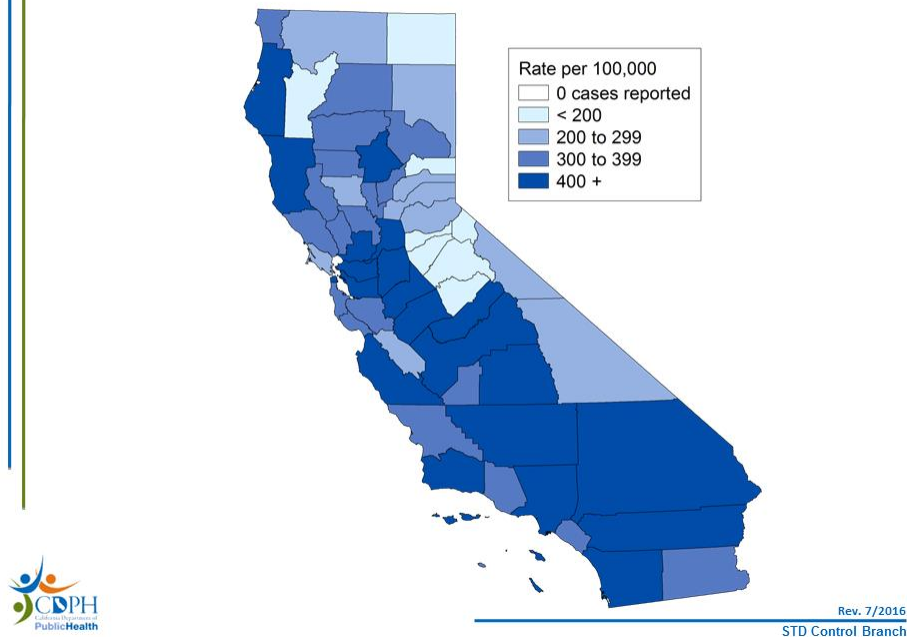


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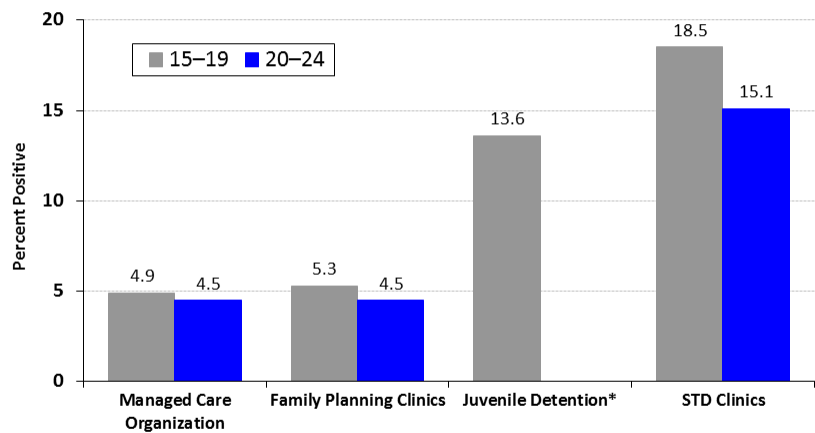


Chlamydia

Chlamydia, Incidence Rates by County, California, 2015



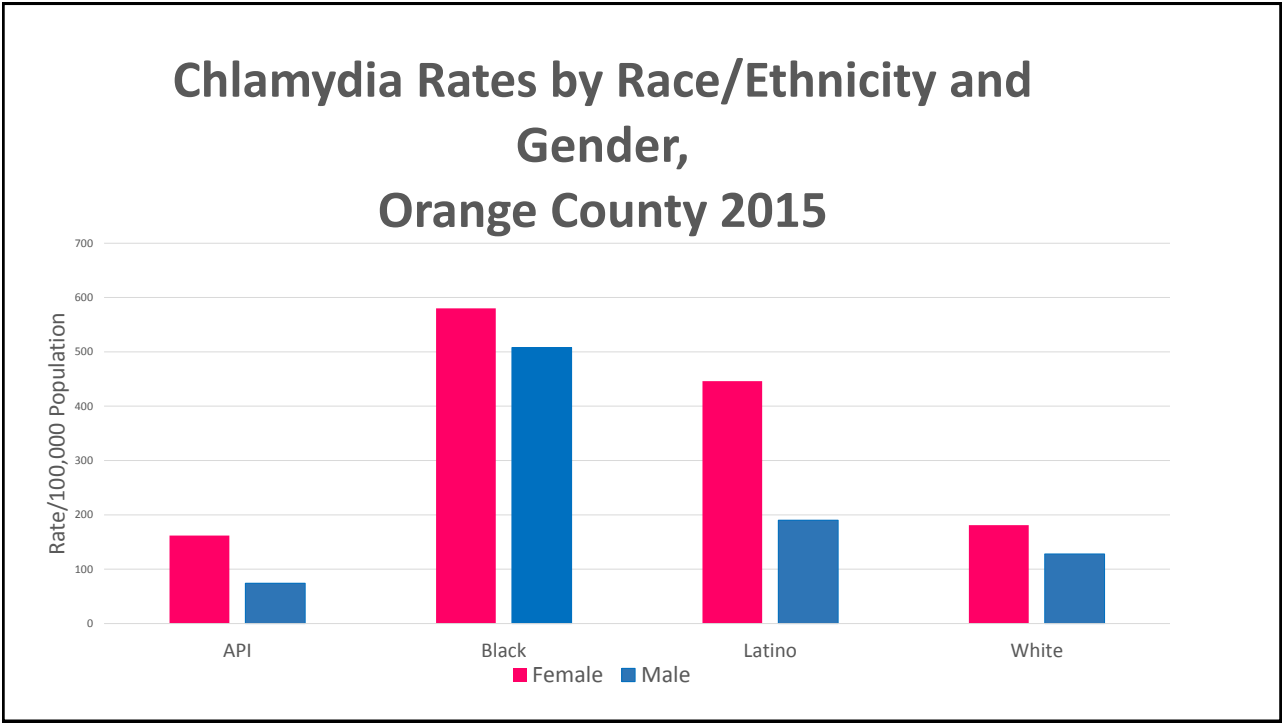
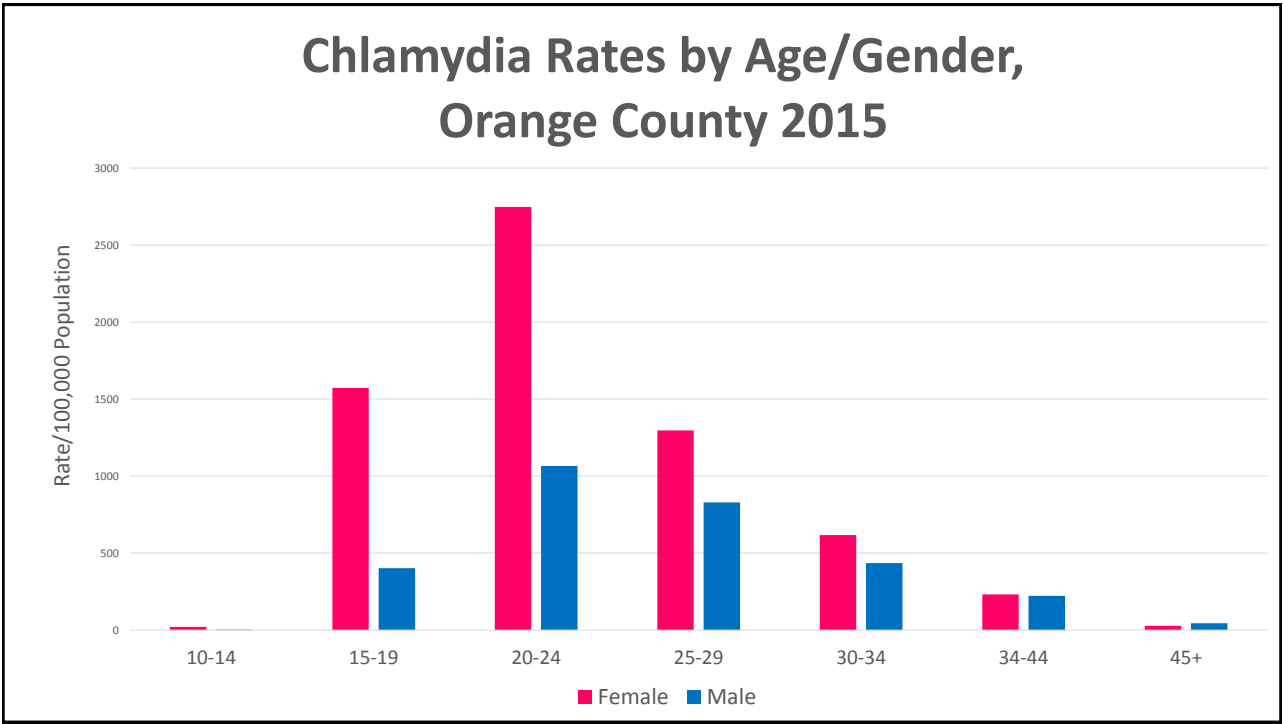
Chlamydia Prevalence Monitoring, Percent Positive for Females
Ages 15–19 and 20–24 Years, by Health Care Setting, California, 2013–2015*



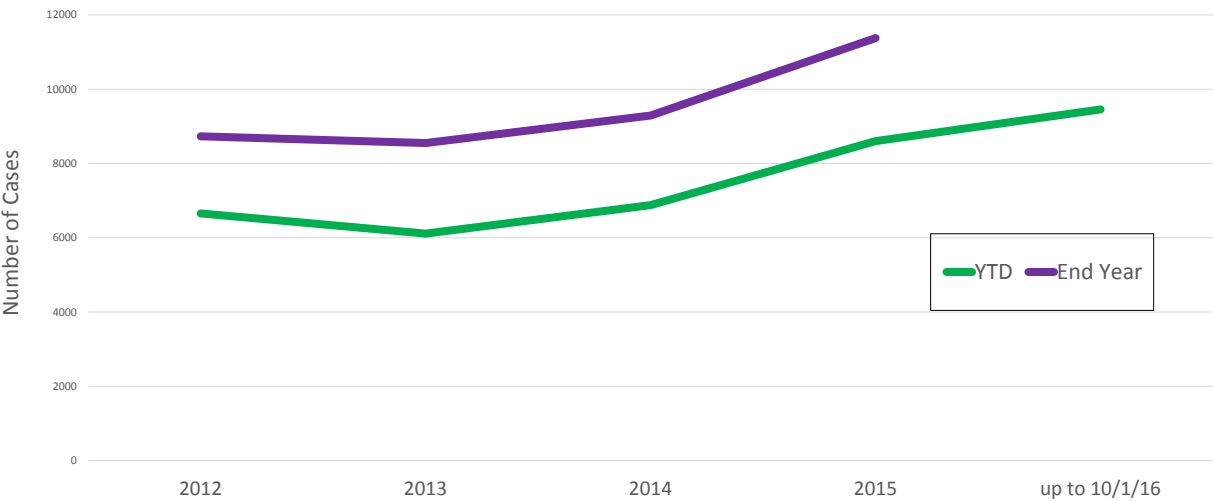
* This venue targets adolescents primarily; 2013 data for family planning and STD clinics, 2014 data for managed care, and 2015 data for juvenile detention.

Source: California Department of Public Health, STD Control Branch (excludes data from Los Angeles and San Francisco Infertility Prevention Projects)

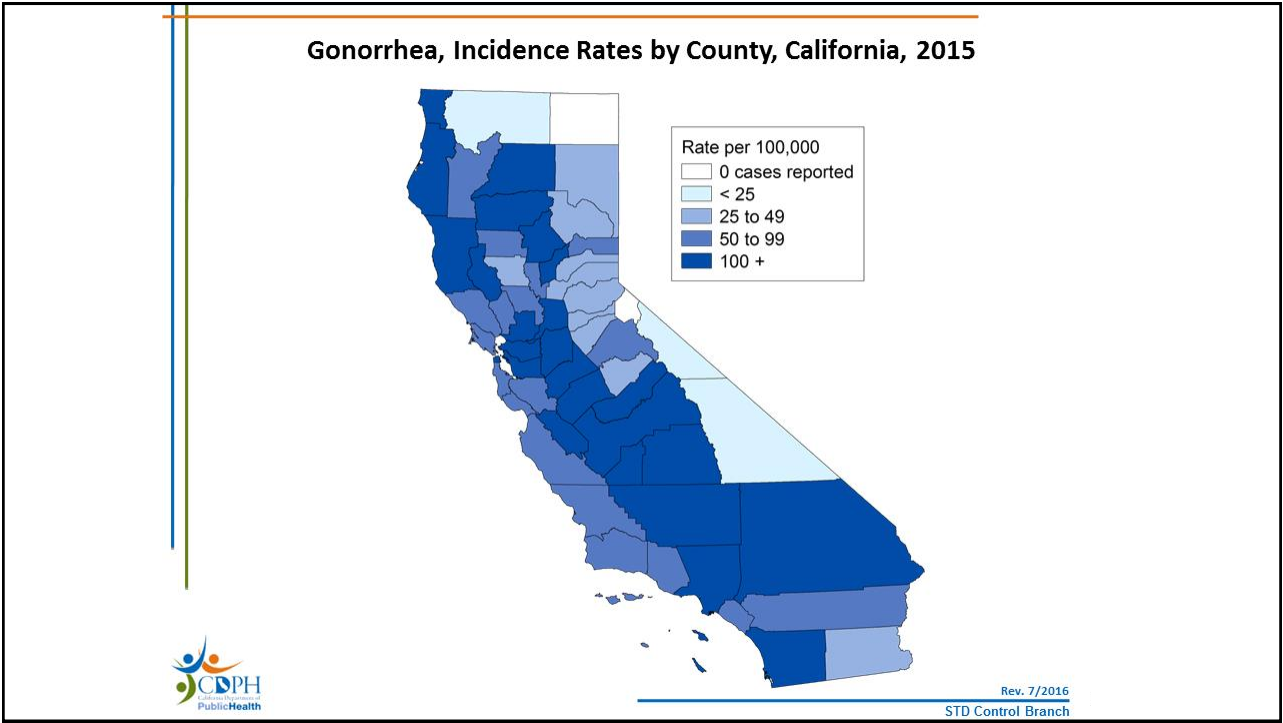
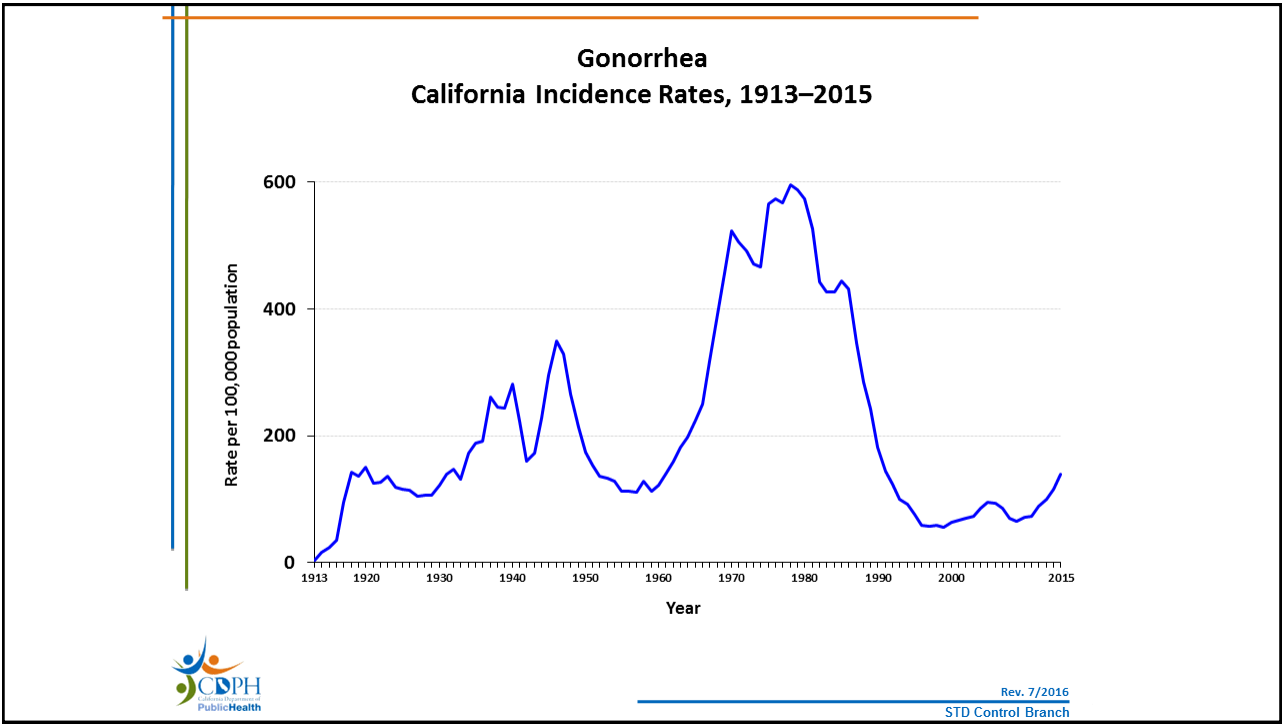
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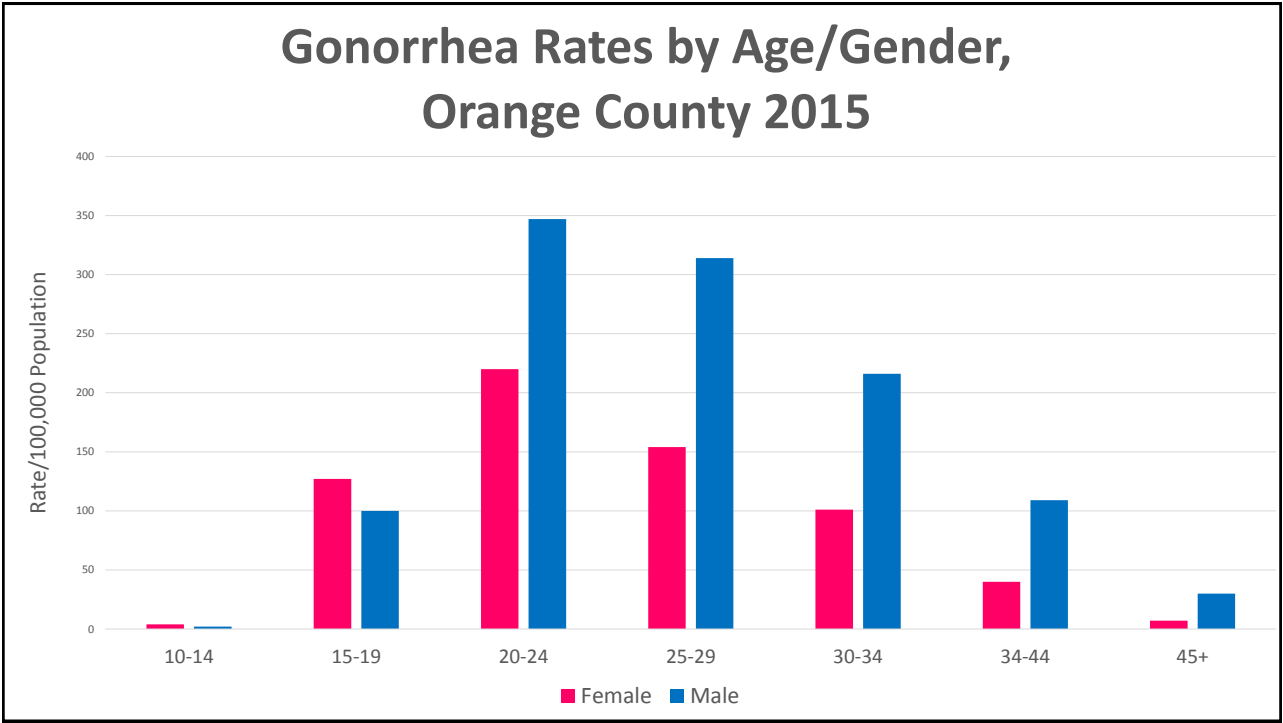
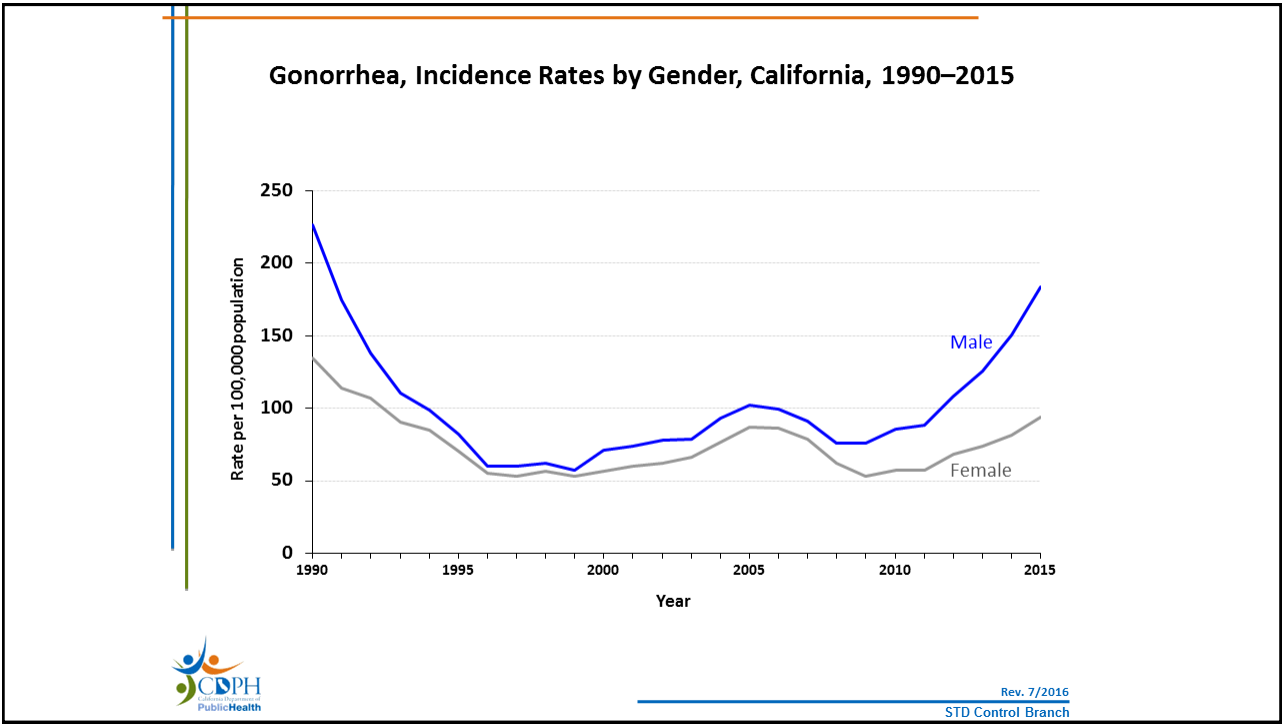


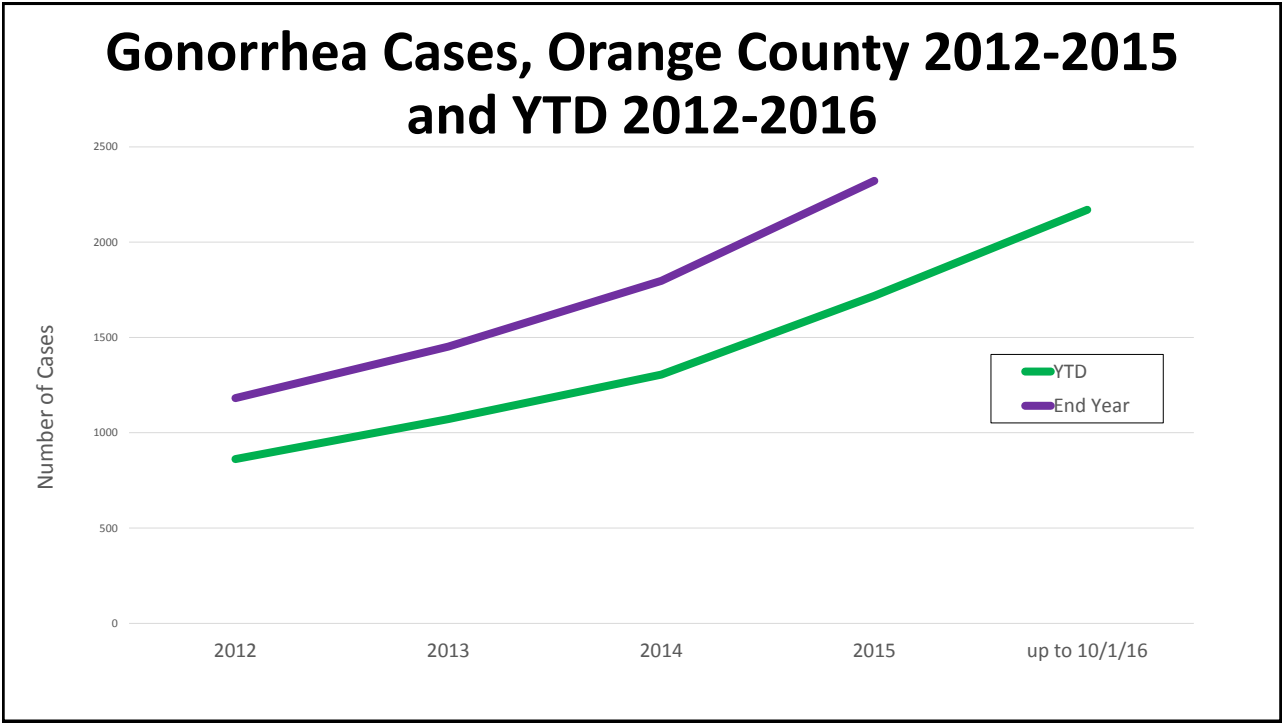
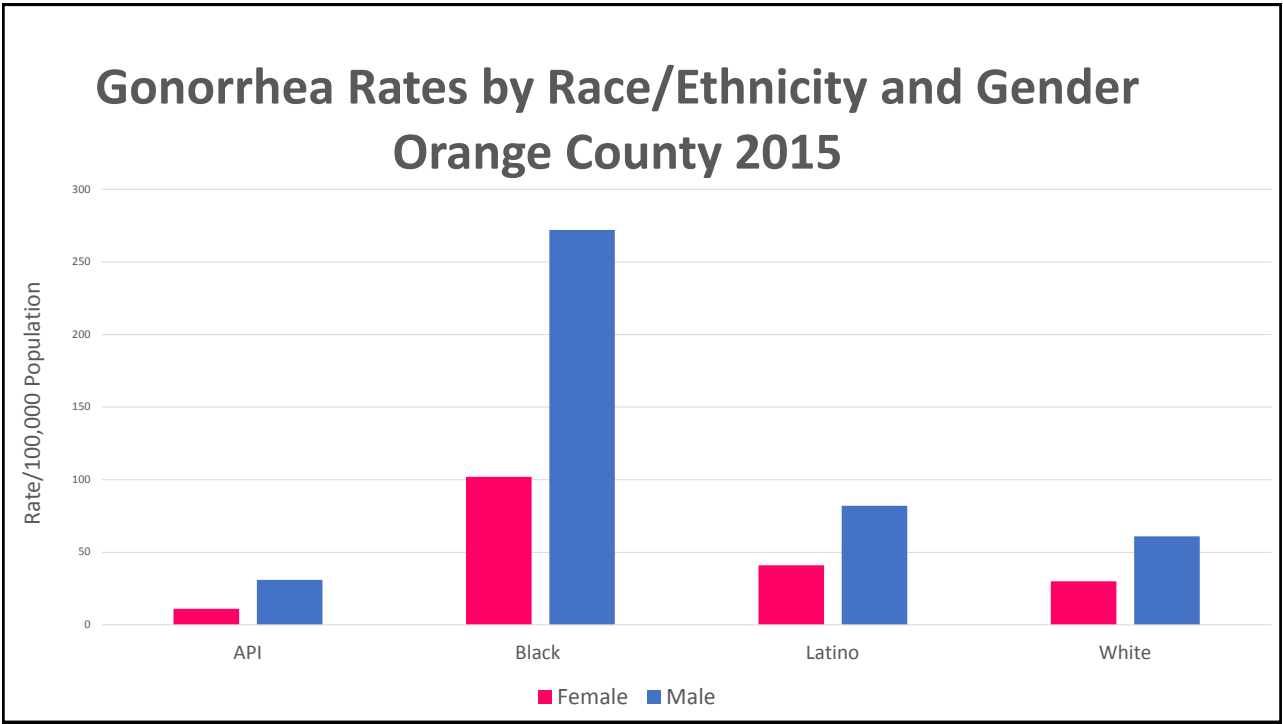
Chlamydia Cases, Orange County 2012-2015 and YTD 2012-2016



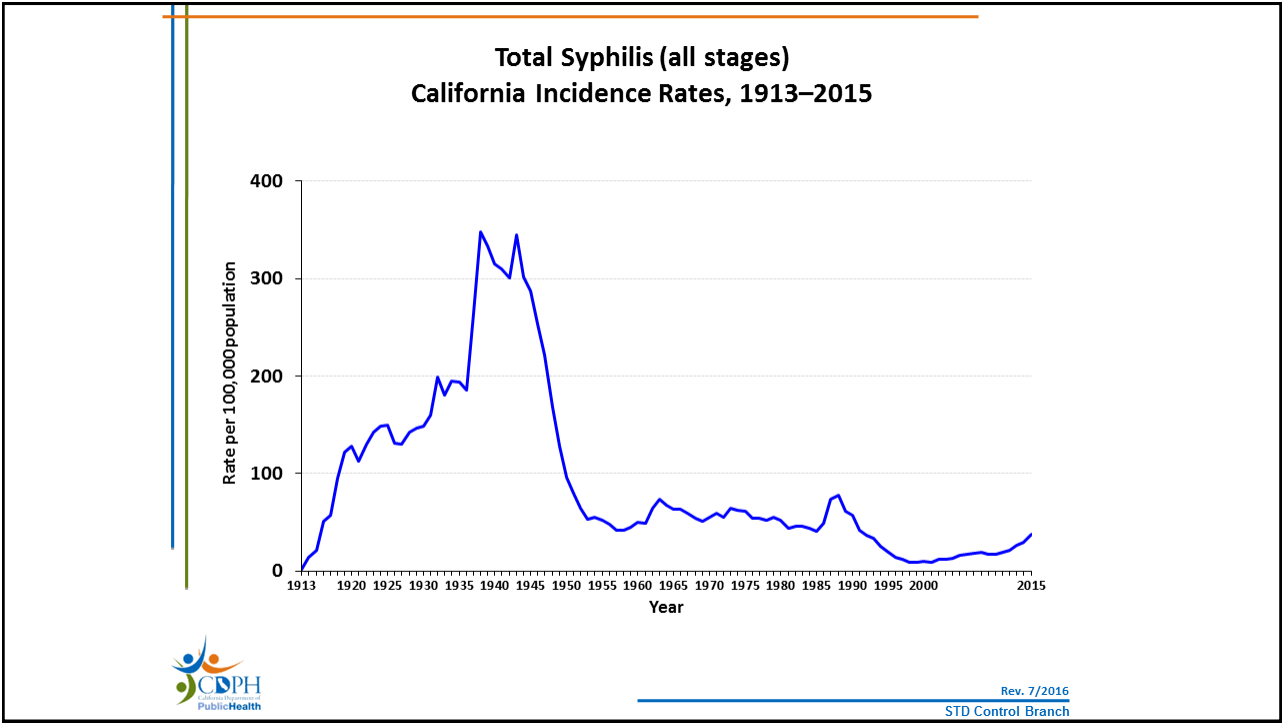
Gonorrhea

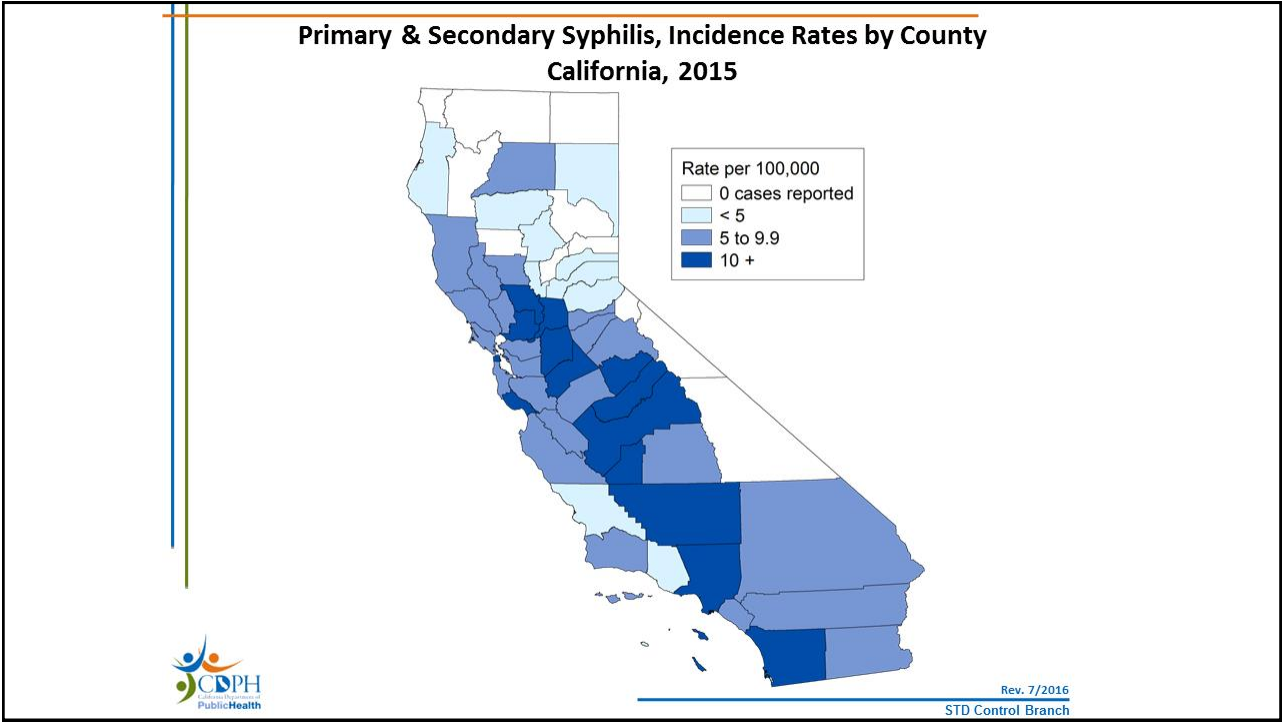
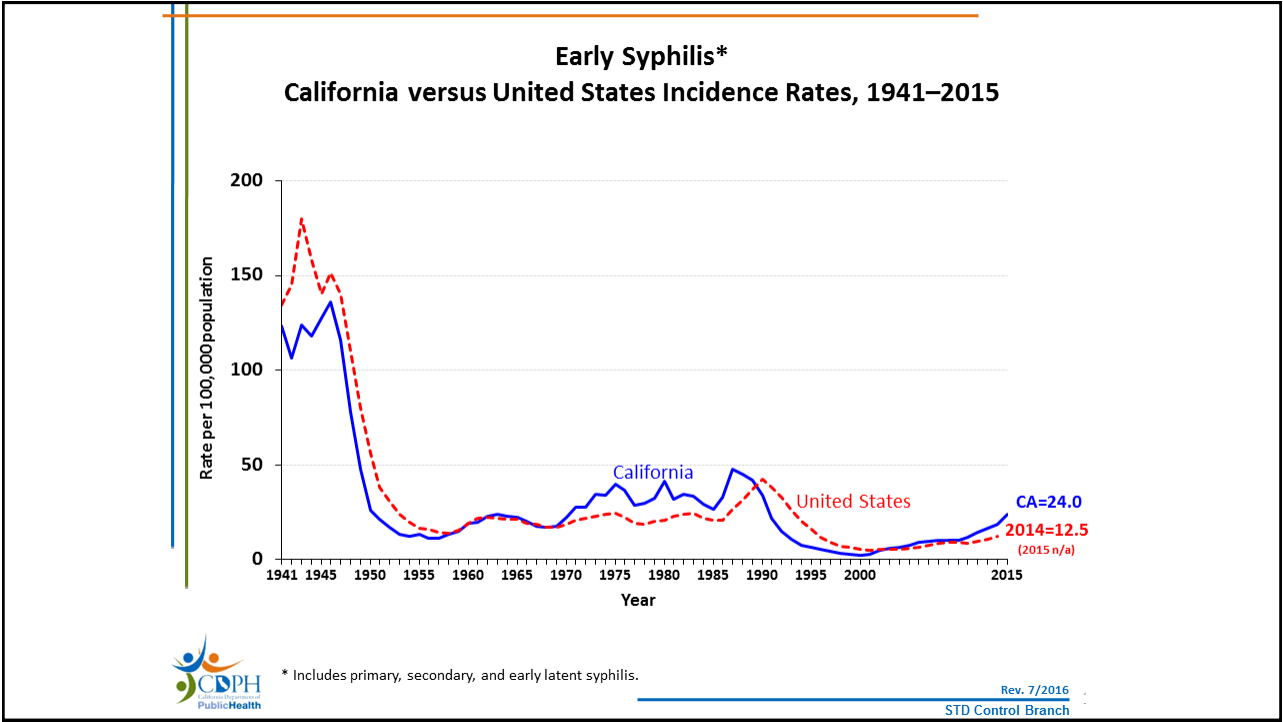




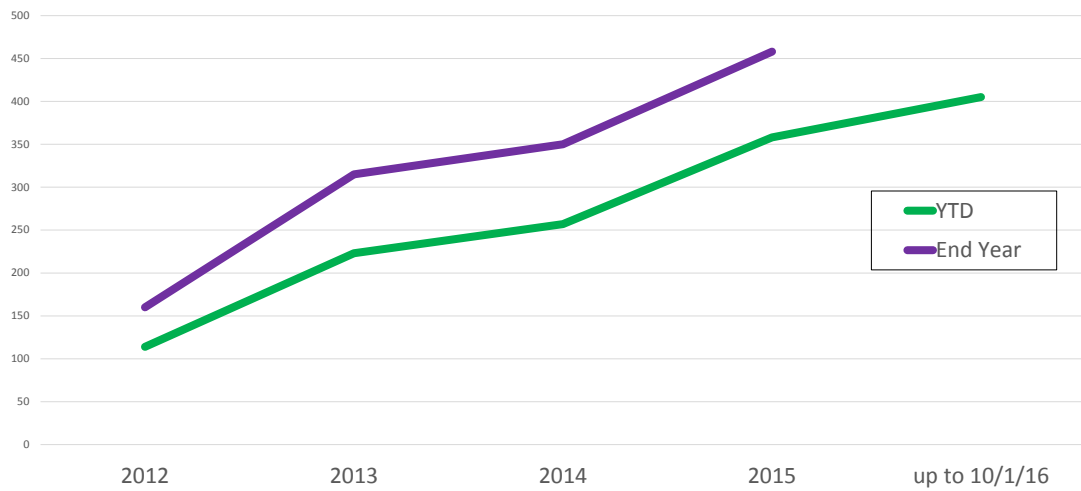


Syphilis

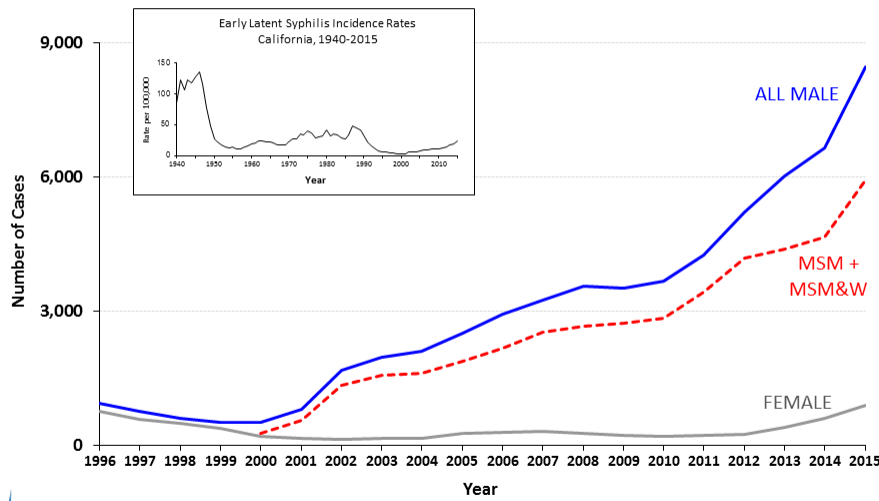




Early Syphilis Cases, Orange County 2012-2015 and YTD 2012-2016



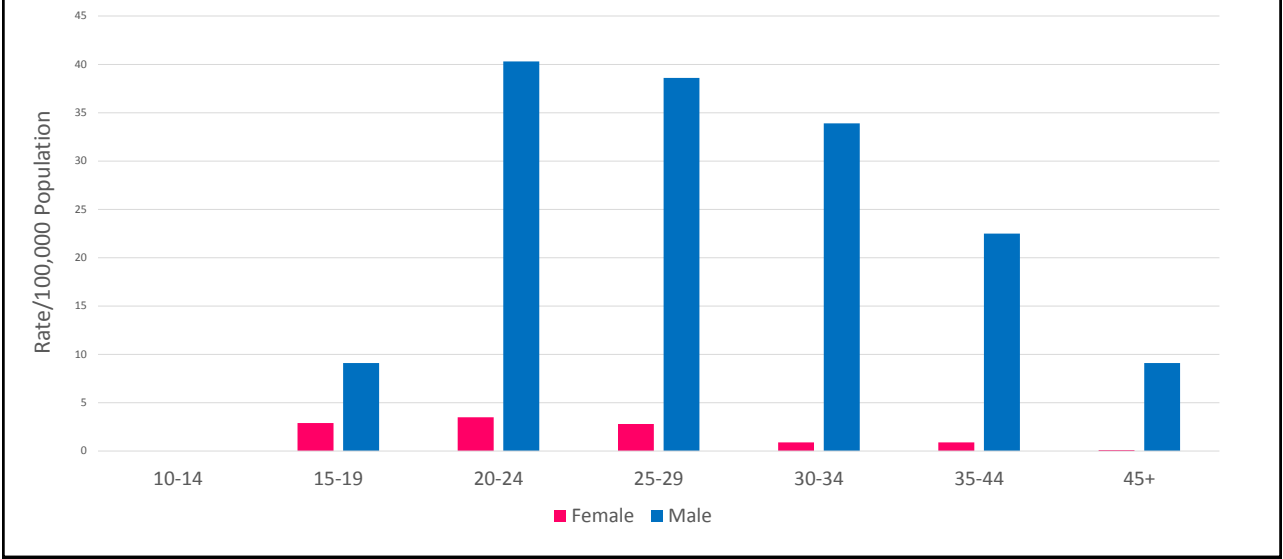
Early Syphilis*, Cases by Gender California, 1996–2015



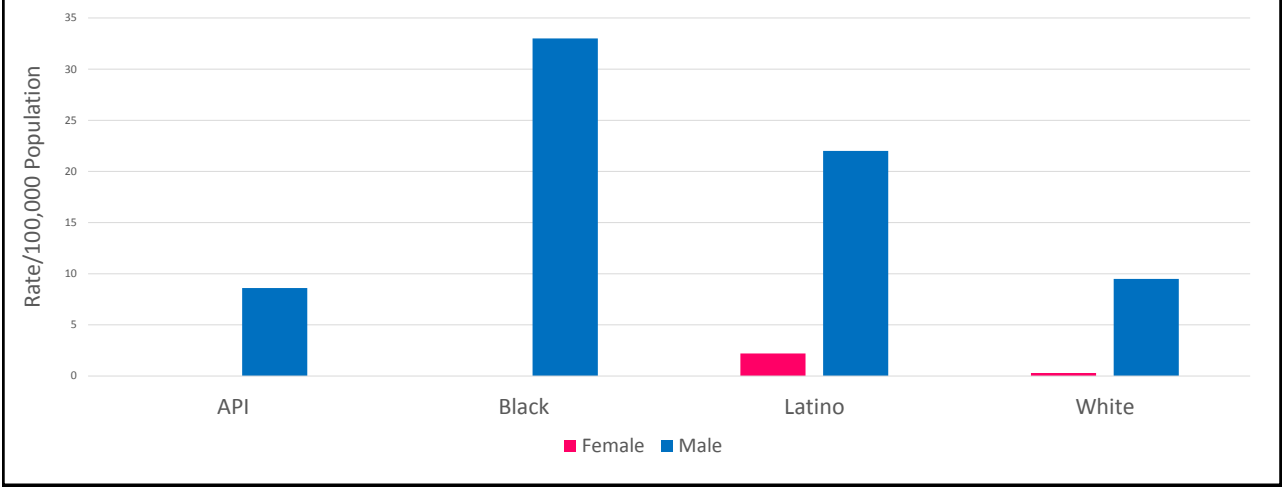
* Includes primary, secondary, and early latent syphilis.

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Primary and Secondary Syphilis Rates by Age/Gender, Orange County 2015

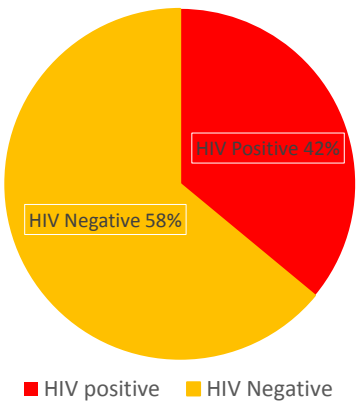


Primary and Secondary Syphilis Rates by Race/Ethnicity and Gender Orange County 2015

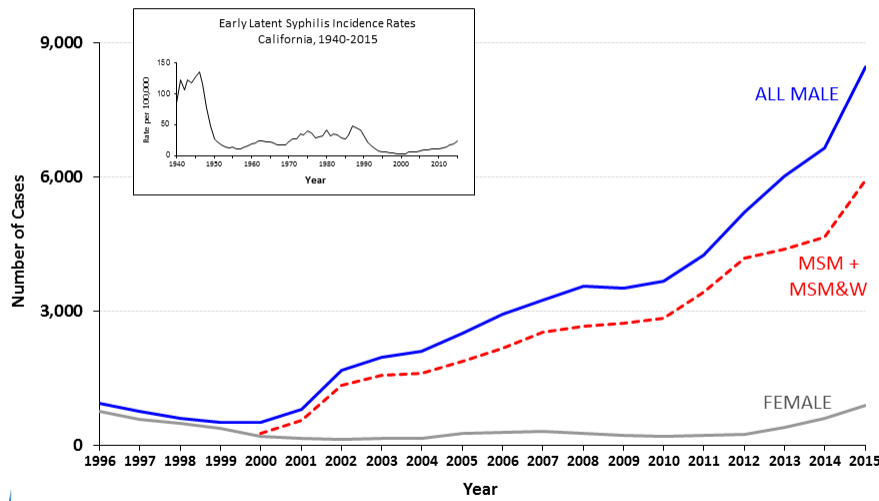


HIV Status among Primary and Secondary Syphilis Cases Men Who Have Sex with Men Orange County 2015

(N=196)



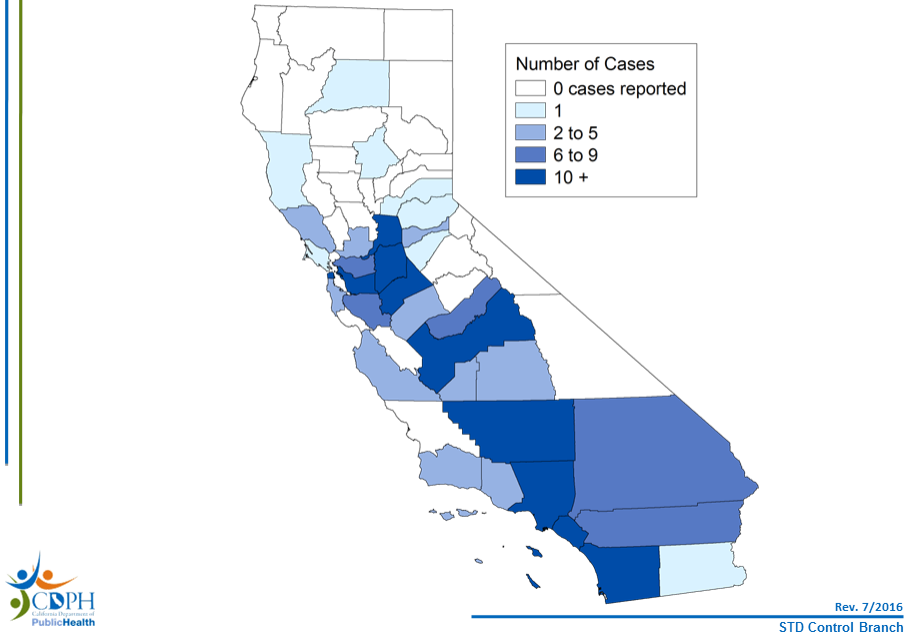
Early Syphilis*, Cases by Gender California, 1996–2015



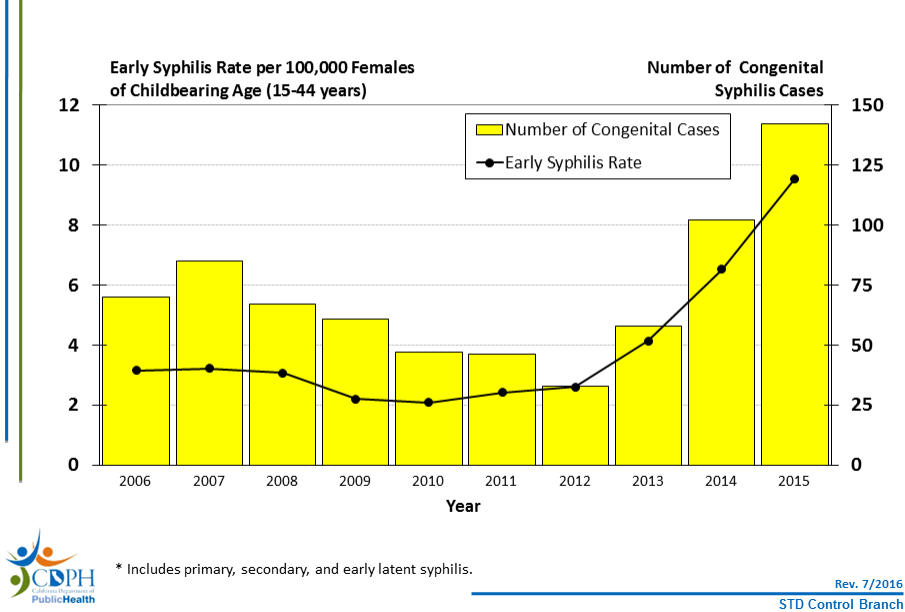
* Includes primary, secondary, and early latent syphilis.

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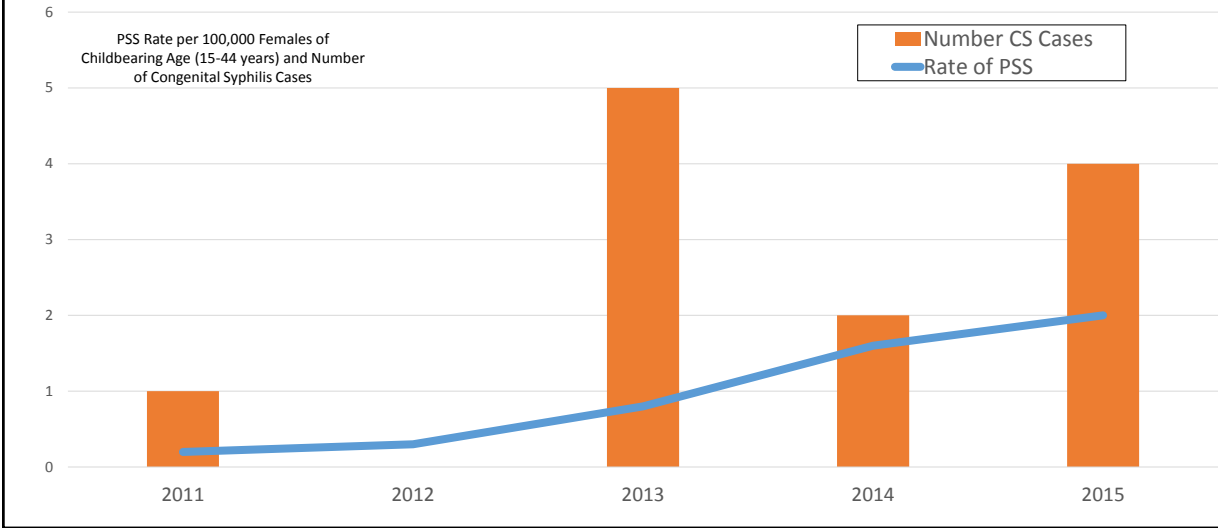
Primary & Secondary Syphilis among Females of Childbearing
Age (15-44), Cases by County, California, 2015



Congenital Syphilis Cases versus Female Early Syphilis*
Incidence Rates, California, 2006–2015

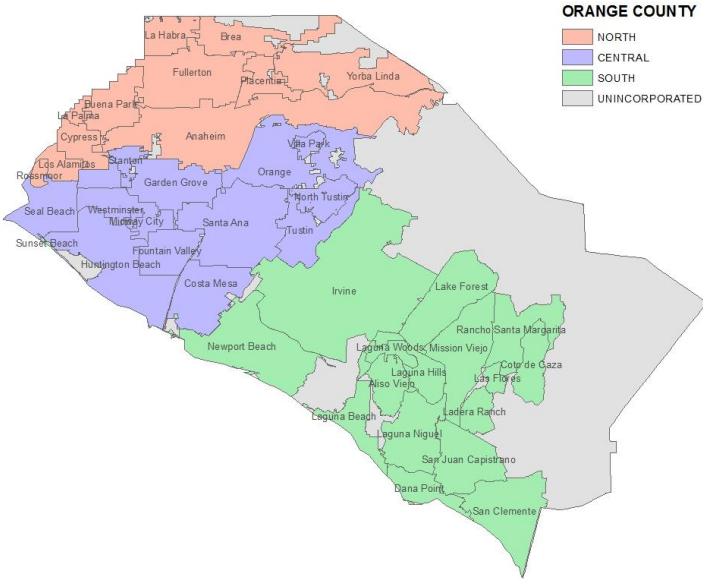


Congenital Syphilis Cases versus Female Primary Secondary Syphilis Rates, Orange County 2011-2015

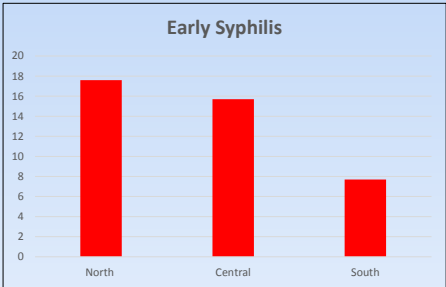
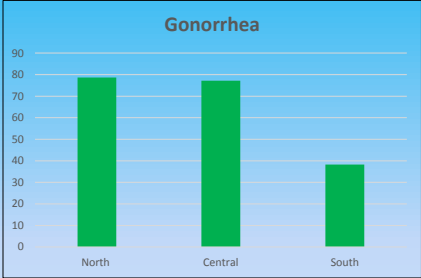
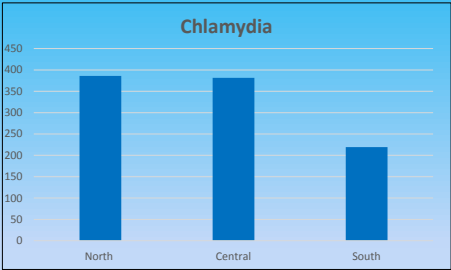


Regions of Orange County

<u>NORTH COUNTY</u>	<u>CENTRAL COUNTY</u>
ANAHEIM	BALBOA ISLAND
BREA	CORONA DEL MAR
BUENA PARK	COSTA MESA
CYPRESS	FOUNTAIN VALLEY
FULLERTON	GARDEN GROVE
LA HABRA	HUNTINGTON BEACH
LA PALMA	MIDWAY CITY
LOS ALAMITOS	ORANGE
PLACENTIA	SANTA ANA
ROSSMOOR	SEAL BEACH
YORBA LINDA	SILVERADO
	STANTON
<u>SOUTH COUNTY</u>	SUNSET BEACH
ALISO VIEJO	TUSTIN
CAPISTRANO BEACH	VILLA PARK
COTO DE CAZA	WESTMINSTER
DANA POINT	
DOVE CANYON	
EL TORO	
FOOTHILL RANCH	
IRVINE	
LADERA RANCH	
LAGUNA BEACH	
LAGUNA HILLS	
LAGUNA NIGUEL	
LAGUNA WOODS	
LAKE FOREST	
MISSION VIEJO	
MONARCH BAY	
MONARCH BEACH	
NEWPORT BEACH	
NEWPORT COAST	
PORTOLA HILLS	
RANCHO SANTA MARGARITA	
SAN CLEMENTE	
SAN JUAN CAPISTRANO	
TRABUCO CANYON	



**Rates of Chlamydia, Gonorrhea and Early Syphilis by Region,
Orange County 2015**



Role of Orange County Public Health

Role of Orange County Public Health

Reporting of Communicable Diseases

- Basis for Monitoring Communicable Diseases
- CMR (Confidential Morbidity Report)
- Communicable Disease reporting is Required by Law
- California Code of Regulations, Title 17, Section 2500
- Failure to report could result in citation from Medical Board and fines

Role of Orange County Public Health

Reporting of Communicable Diseases

CalREDIE:

- (California Reportable Disease Information Exchange) is the California Department of Public Health's communicable disease reporting and surveillance system.
- All cases of Chlamydia, Gonorrhea and Syphilis are entered into CalREDIE

Role of County Public Health

Most Common Data Fields Missing on CMR

Gonorrhea and Chlamydia

- Race/Ethnicity and Treatment

Syphilis

- Stage of Disease and Confirmatory Serology

Division of Disease Control and Epidemiology

- 17th Street Testing, Treatment and Care (HIV/STD Services)
 - HIV and STD Clinics
 - **Disease Intervention Services**
 - HIV Surveillance
 - Disease Intervention Specialists (DIS)
 - Partner Services
 - Outreach and Data to Care
- Epidemiology and Assessment
- HIV Planning and Coordination
- Pulmonary Disease Services (TB Services)

Role of Orange County Public Health

Disease Intervention Services

Senior Epidemiologist, Rebecca Mares

Keeper of all Syphilis and HIV data

Performs searches of Syphilis cases for data including diagnoses and treatment history

Medical Providers can call her to request a Syphilis data search on their patients diagnosed and treated both inside and outside Orange County
(714) 834-7832

Role of Orange County Public Health

Disease Intervention Services

DIS (Disease Intervention Specialists)

- Team of Ten DIS
- Contact Medical Providers to Verify Syphilis Disease Stage and Treatment
- Investigate all Cases of Primary, Secondary and (Early Latent Syphilis) as well as any woman of child bearing age with Syphilis

Role of Orange County Public Health

Disease Intervention Services

DIS (Disease Intervention Specialists)

- Interview Patients (Index Cases)
- Elicit Sex Partners from Index Cases
- Inform Sex Partners of their Exposure to Syphilis
- Refer these partners for exam, diagnostic testing
epidemiologic treatment

Role of Orange County Public Health

DIS (Disease Intervention Specialists)

Investigate all New Reported HIV Cases

- Provide Referral to Linkage to Care (LTC) to Cases
- Linkage to Care Program's goal is to link individuals who are HIV positive, newly diagnosed or out of care to HIV medical care
- Offer Partner Services to HIV Cases
- Elicit Partners from HIV Cases
- Partner Services purpose is to Inform all potentially exposed sex or needle sharing partners of their exposure, link them to HIV testing sites and prevention services, such as PrEP

Role of Orange County Public Health

17th Street Testing, Treatment and Care Clinics

- **STD clinic** offers confidential and anonymous HIV testing, complete STD evaluation and treatment
- **PrEP Clinic** (within the STD clinic) offers PrEP evaluation and ongoing care for PrEP clients who are uninsured. Patient with private insurance/Medi-Cal receive navigation services to ensure they are able to find a PrEP provider under their insurance plan.
- **HIV Clinic** provides full spectrum of HIV care to the uninsured