



Public Health Department
Communicable Disease Section

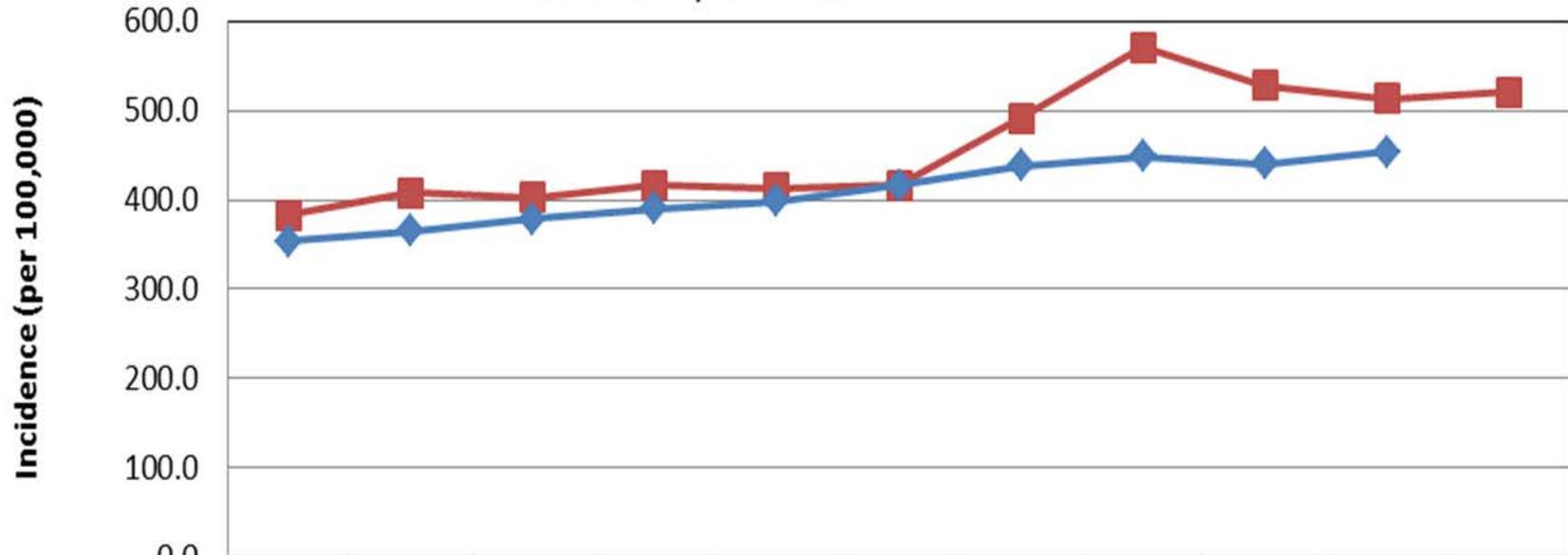
STI/HIV Update 2016

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April 13, 2016
April 14, 2016



- Reportable conditions by Providers and Labs
 - CT, GC, PID, Syphilis
 - No: Herpes, HPV, NGU, Scabies, Lice
- SB County receives over 14,000 yearly
- Clinics serve individuals confidentially 12 yrs and older
- Communicable Disease Investigators follow
 - Untreated cases and partners
 - Priority is very young, pregnant, juvie, HIV co-infected

**Incidence Rates for Chlamydia in the County of San Bernardino,
and California, 2005-2015**



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
■ County of San Bernardino	383.1	407.5	402.8	416.0	413.6	416.3	491.7	570.8	528.0	513.1	520.4
◆ California	353.7	365.1	378.2	390.2	398.1	416.3	438.1	449.0	440.7	453.4	

- Females 15-25 yrs account for 52% of all cases
- 70% females/25% men may be asymptomatic
- Complications for untreated females-
 - PID, ectopic pregnancy, infertility
 - Preterm delivery, pneumonia in infant
- 54% of reports missing race/ethnicity
 - Many are missing address
- Resource issues- many local PH departments no longer investigate except highest risk cases

- Susceptible cells on cervix younger women
- Higher prevalence STDs younger sex partners
- Short duration relationships common
- Lack of assertiveness and communication skills
- Power dynamics in dating older people
- Lack of access to health information and services

VENEREAL

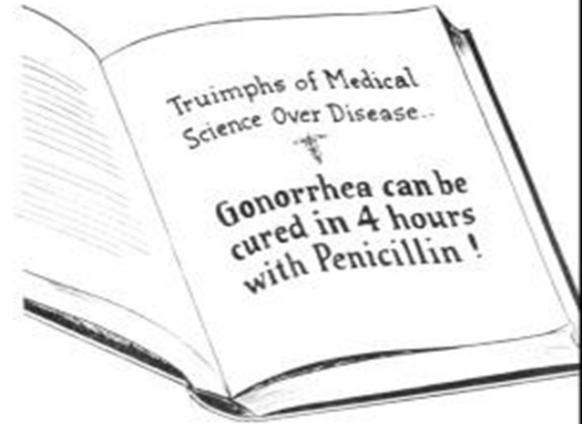
Penicillin cures **GONORRHEA**

(The Great Crippler and Sterilizer)

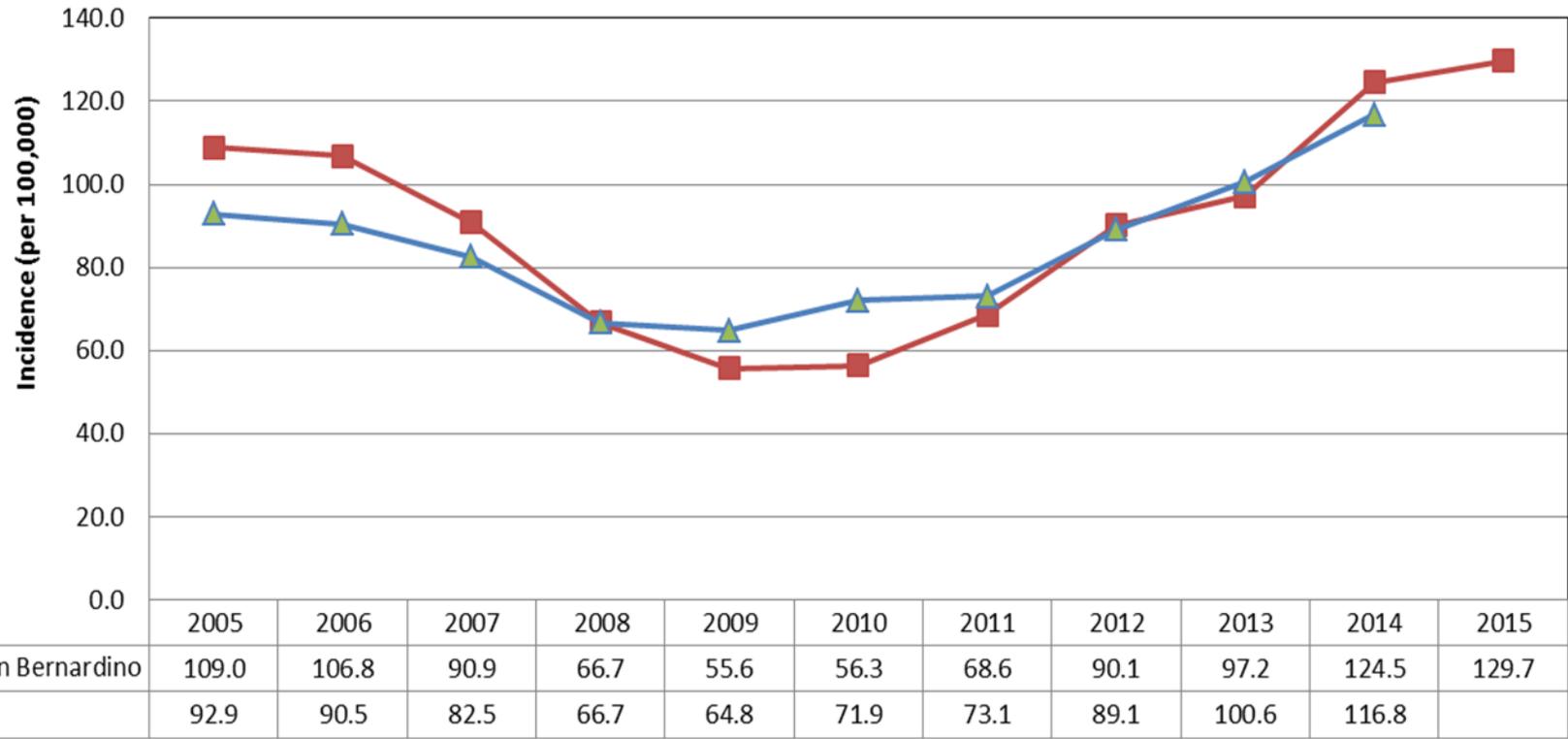
in four hours!

SEE YOUR DOCTOR TODAY! He now has penicillin for your treatment. The drug is provided **FREE** for the next 45 days by your - -

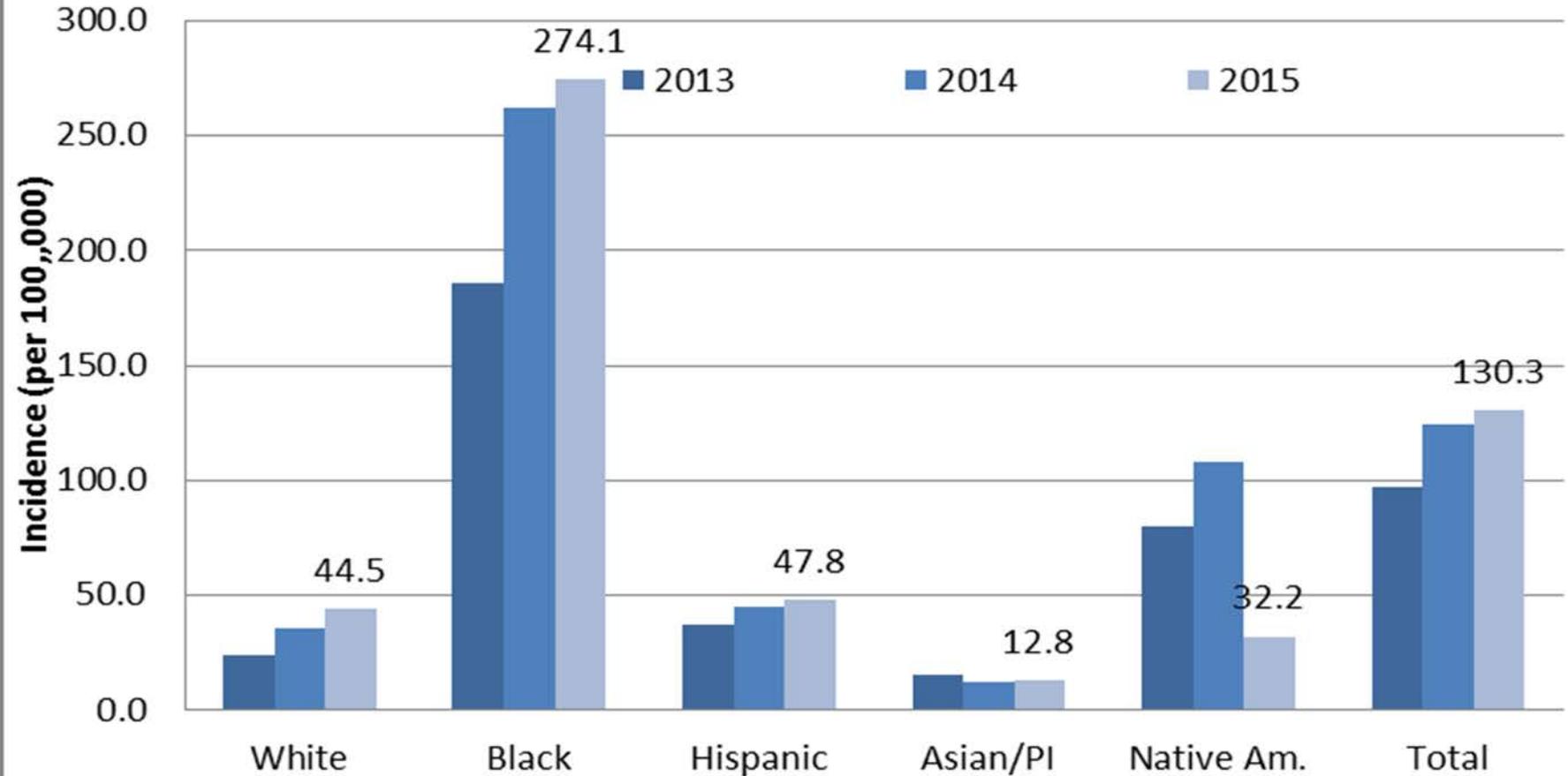
STATE AND CITY HEALTH DEPARTMENTS



Incidence Rates for Gonorrhea in the County of San Bernardino, California, and the United States, 2005-2015



Incidence of Gonorrhea by Race/Ethnicity 2013-2015



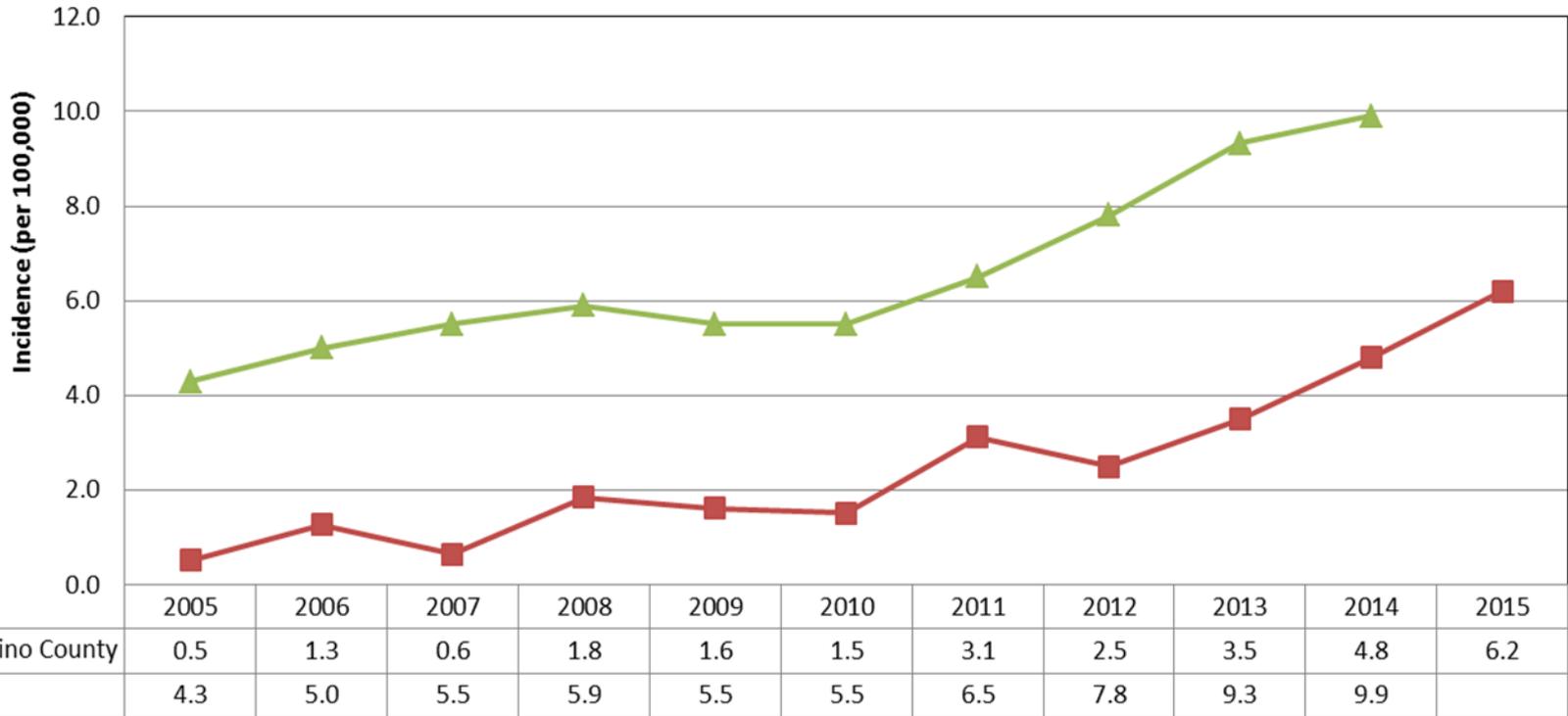
- MSM (Gay males) account for 39% of all cases in CA
 - % is increasing
 - 27% of MSM GC cases are also HIV positive
 - Urine only testing misses extragenital infections
- 36% of cases are treated using non recommended regimen or not treated
- 21% of male heterosexual cases were incarcerated previous yr
 - Only 8% of female cases incarcerated
- 38% of cases used internet to meet new or anonymous partners
- 7% of cases used methamphetamine in previous yr

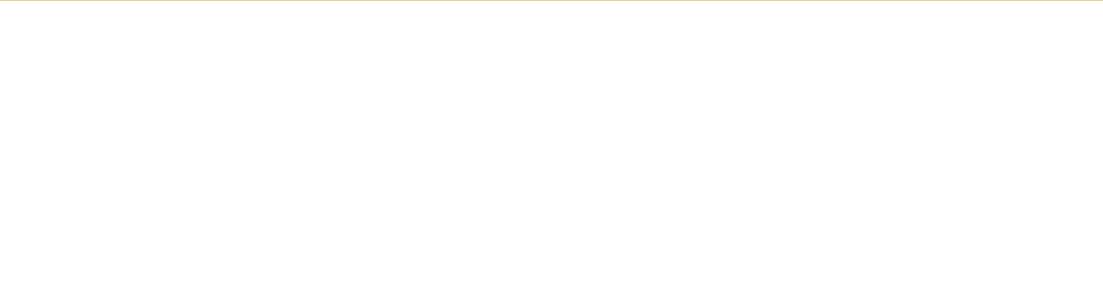
- Antibiotic resistance is monitored
 - 2015 change in treatment guidelines
 - Two antibiotic regimen now recommended
- New focus on hotspots in county by local PH
- Provider education
- Jail testing project for women \leq 35 yrs
 - 8.5% are positive for either Chlamydia or Gonorrhea

- Education to patients
- Thorough sexual history
- Treatment of partners- patient delivered therapy
- Testing/referral of partners
- Report to public health completely and timely
- Link STD investigations with HIV testing



Incidence Rates for Syphilis (Primary & Secondary) in the County of San Bernardino, and California 2005-2015

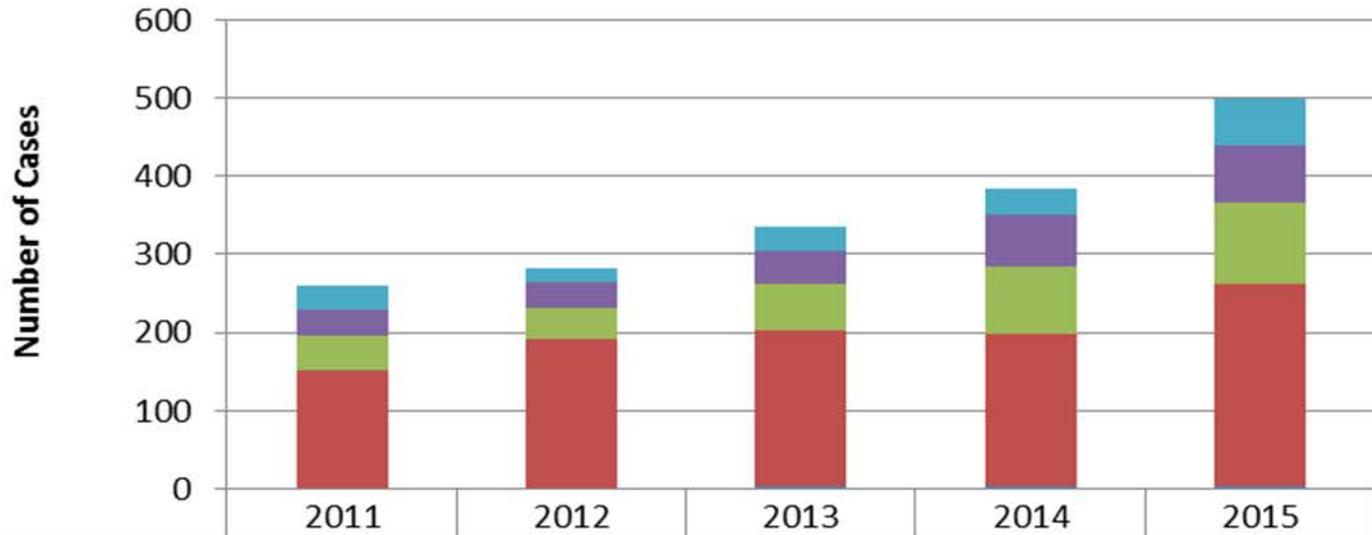




Secondary Syphilis



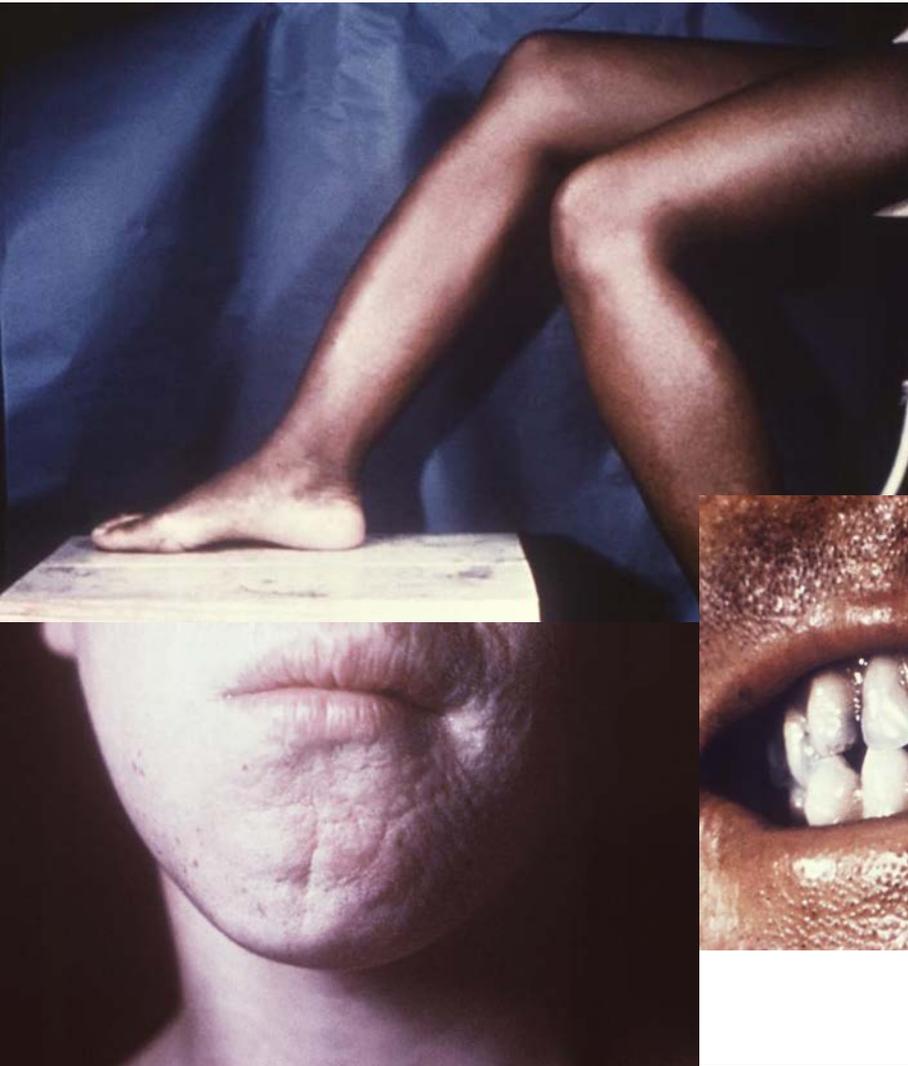
San Bernardino County Syphilis by Stage 2011-2015



	2011	2012	2013	2014	2015
Primary	30	18	31	33	58
Secondary	34	33	42	66	74
Early Latent	45	39	60	86	104
Late/Latent Unknown Duration	151	191	198	195	258
Congenital	0	1	4	3	4

- MSM (Gay males) account for 79% of cases
 - 49% are HIV positive also (11% of heterosexuals)
- Female case numbers up significantly
 - Infants cases tripled since 2012
- 33-37% of all cases in 20-29 year old group
- 15-17% of all cases use Methamphetamine
- Whites largest proportion of cases- 42-48%
- Sex partners
 - MSM- 42% internet, Heterosexuals- 20% bars

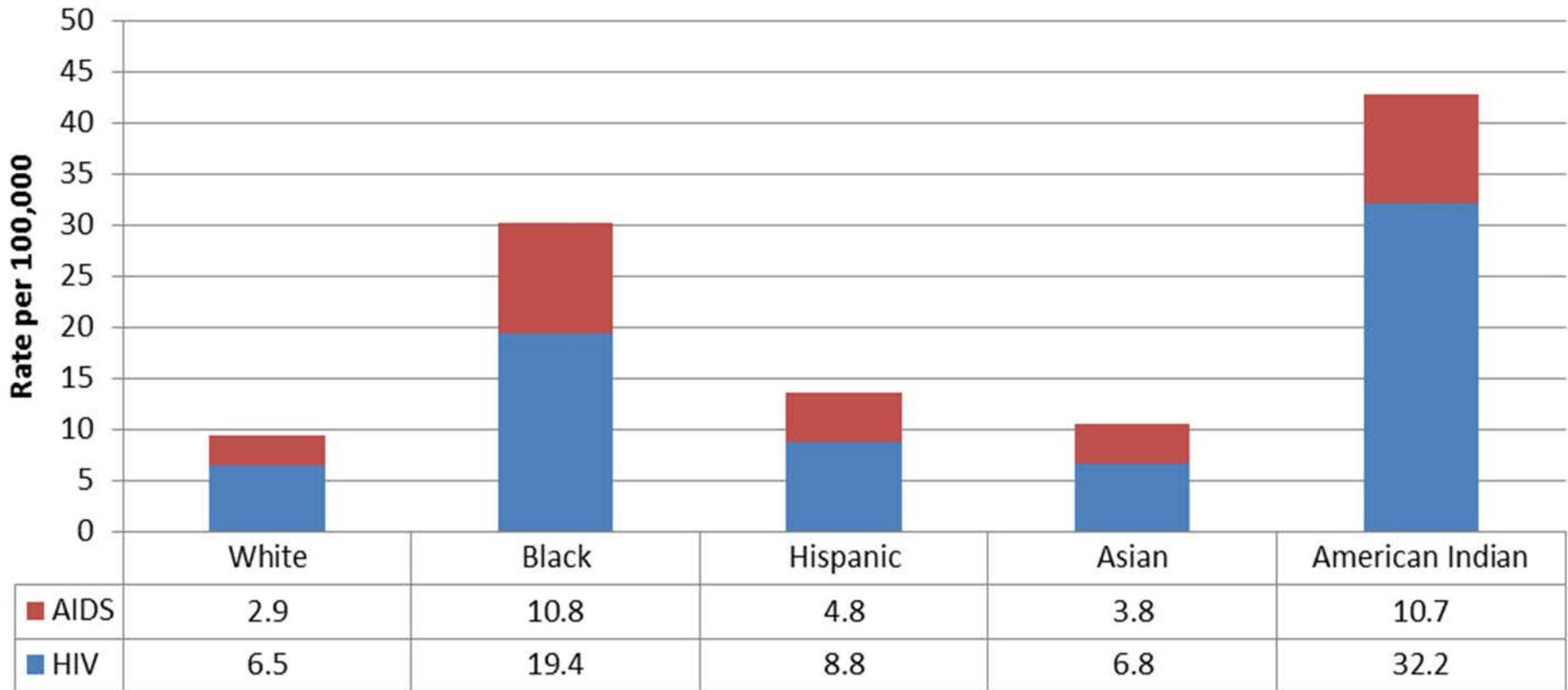
Congenital Syphilis



- STD infection increases the chances of transmitting and getting infected with HIV by 3-6 times
- Open sores and cell layer breakdown provide pathway to bloodstream
- White blood cells fighting an STD provide receptors for HIV
- Infections lower natural defenses in vagina (pH and good bacteria)
- GC may increase the amount of HIV in semen.

- In US an estimated 1.2 million are living with HIV
- Estimate 50,000 new infections each year in US
- In CA an estimated 132,072-170,066 are living with HIV
- In CA 5,000-7,000 new infections each year
- In SB Co an estimated 3,500 are living with HIV
- In SB Co 200 HIV/100 AIDS cases reported each year

HIV Incidence Rates (New) by Race/Ethnicity San Bernardino County 2014



- 84% males, 16% females
- Risk factors
 - Males- 73% MSM
 - Females- 58% hetero
- Partner Services- notify of exposure
- Use testing and demographic info to identify new infections vs new diagnoses

- Prevention with positives
 - Linkage to care, treatment adherence, support services key to maintaining undetectable viral loads
 - 37% of all persons living with HIV in the county have undetectable viral loads
 - 81% of all persons living with HIV and in care have undetectable viral loads
 - New focus on acute HIV infection- very infectious
- Integration with STD Services
 - Test for HIV also
 - Offer referral to HIV clinic for care

Pre Exposure Prophylaxis PrEP

- High risk individuals take HIV meds before infection
- Truvada- 2 HIV meds/1 pill/1 time daily
- Continue to use condoms
- Early side effects mild and disappear
- Clinical studies- reduced risk up to 90%
 - MSM, discordant heterosexual couples
- Requires regular medical monitoring
- Many insurances will pay for

- Free to low cost testing based on income and coverage
- Rapid testing available
- Anyone 12 years and older can test
- Other STD and family planning services are available
- Multiple locations in county
- 800-722-4777 for an appointment

- Mobile testing van in 3 locations in county
- Free
- Anyone 12 years or older
- Confidential or anonymous
- Rapid test (20 mins) or conventional (blood) test available
- Call 800-255-6560 for locations and times

- 16% of HIV positive people are unaware of their status
- 23% of new HIV diagnoses develop AIDS within 90 days
- In care, on treatment, retained in care
 - undetectable viral load
 - Less likely to spread infection

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