Update on Syphilis in Women and Congenital Syphilis for Prenatal Providers

Julie Stoltey, MD MPH

Public Health Medical Officer
California Department of Public Health
STD Control Branch





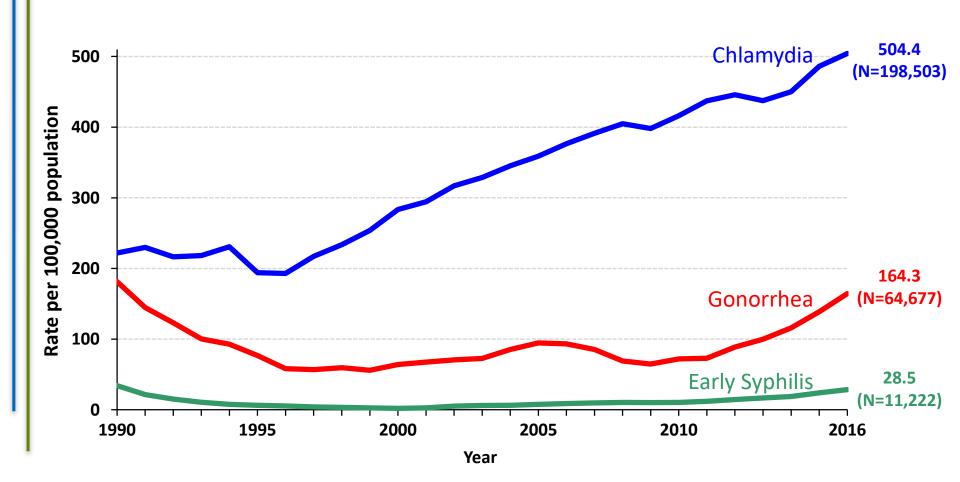
January 24, 2018

Overview

- Summarize epidemiologic trends in syphilis in women and congenital syphilis in California
- Describe syphilis stages and clinical manifestations
- Review recommended treatment for syphilis
- Describe characteristics of congenital syphilis cases in California

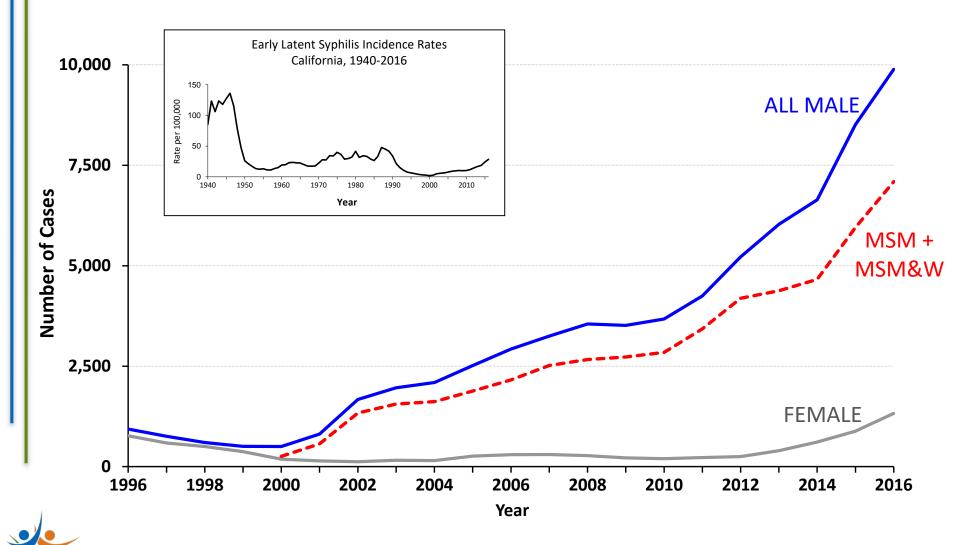


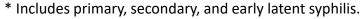
Chlamydia, Gonorrhea, and Early Syphilis California Incidence Rates, 1990–2016





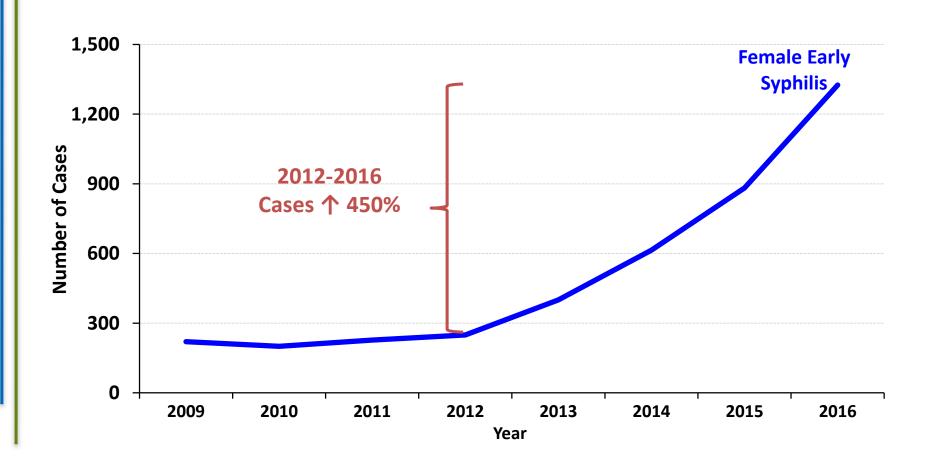
Early Syphilis*, Number of Cases by Gender & Gender of Sex Partners, California, 1996–2016





PublicHealth

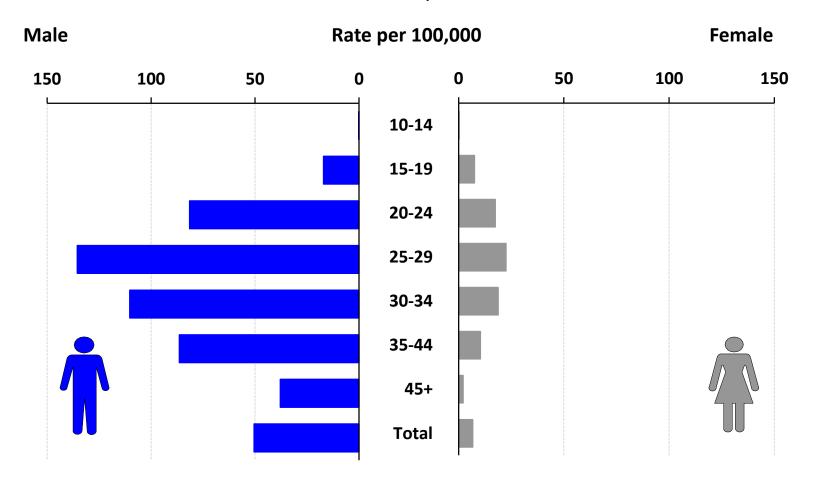
Female Early Syphilis* Cases California, 2009–2016





^{*} Includes primary, secondary, and early latent syphilis.

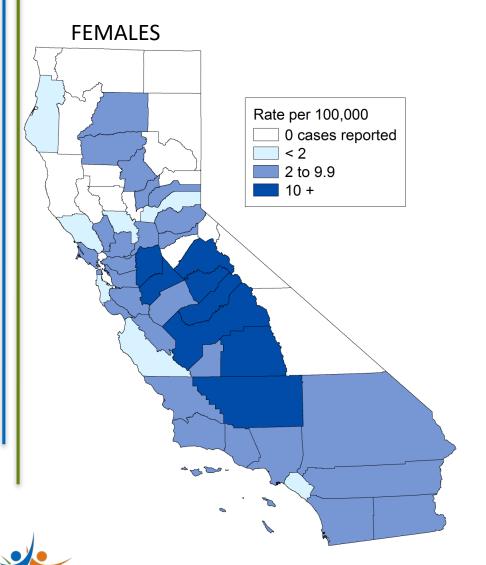
Early Syphilis* Incidence Rates by Gender and Age Group (in years) California, 2016

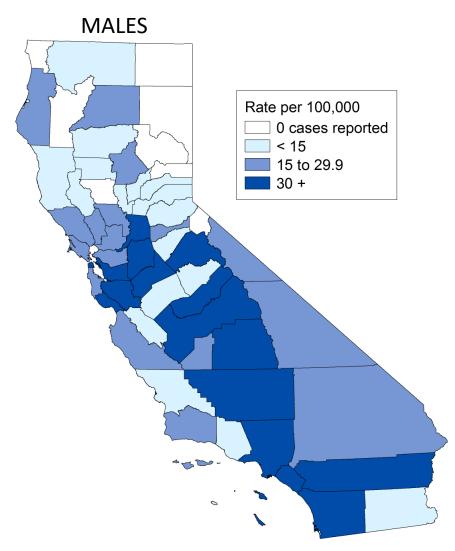




^{*} Includes primary, secondary, and early latent syphilis.

Early Syphilis*, Incidence Rates by County and Gender California, 2016

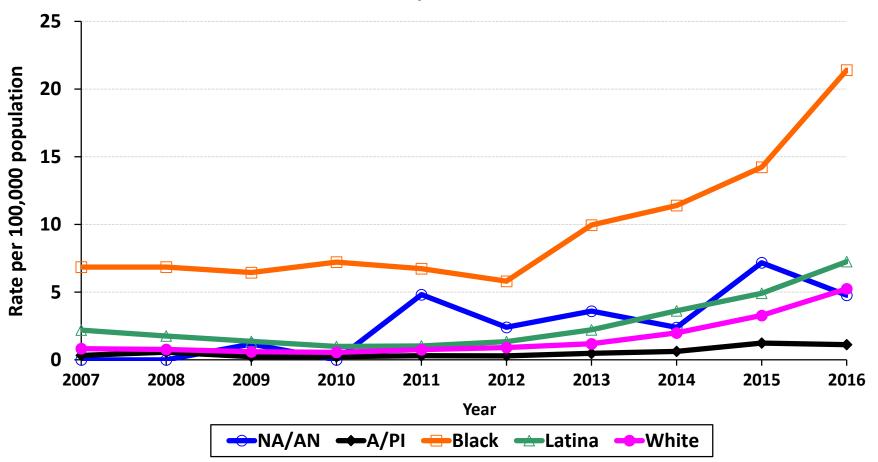


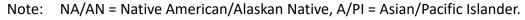


^{*} Includes primary, secondary, and early latent syphilis.

PublicHealth

Early Syphilis* Incidence Rates for Females by Race/Ethnicity California, 2007–2016



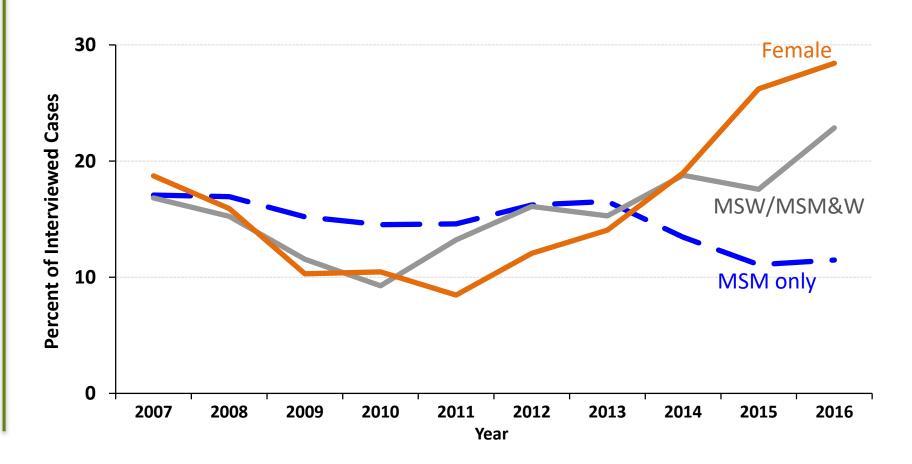


Race/ethnicity "Not Specified" ranged from 0% to 6.7% of cases for females in any given year.

* Includes primary, secondary, and early latent syphilis.



Percent of Interviewed Early Syphilis* Cases who Reported Methamphetamine Use, by Sexual Orientation, California, 2007–2016

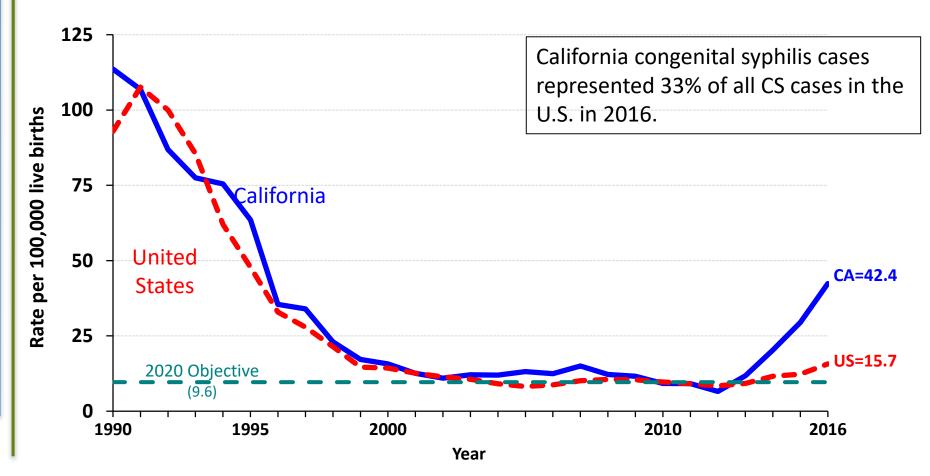


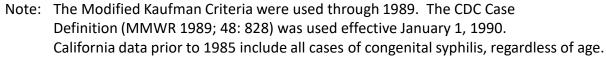


MSM=Men who have sex w/men, MSW=Men who have sex w/women, MSM&W=Men who have sex with men & women

* Includes primary, secondary, and early latent syphilis.

Congenital Syphilis, California versus United States Incidence Rates, 1990–2016



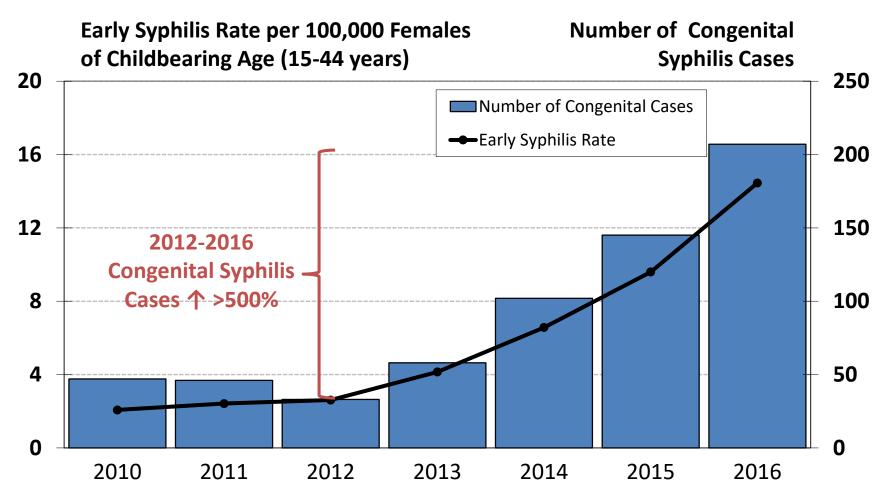


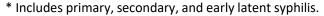


Congenital Syphilis — States With Highest Number of Cases and Highest Rates per 100,000 Live Births, 2016

States with Highest Number of Cases:			States	States with Highest Rates:		
Rank	State	2016 Cases	Rank	State	2016 Rate	
1	California	206	1	Louisiana	74.4	
2	Texas	71	2	California	41.0	
3	Florida	59	3	Nevada	33.5	
4	Louisiana	48	4	Florida	26.8	
5	Georgia	21	5	Maryland	21.6	
6	Illinois	18	6	Texas	17.8	
7	North Carolina	16	7	Arizona	17.3	
8	Maryland	16	8	South Dakota	16.3	
9	Arizona	15	9	Georgia	16.0	
10 10 PH	New York Michigan	13 13	10 10	Arkansas South Carolina	15.6 15.6	

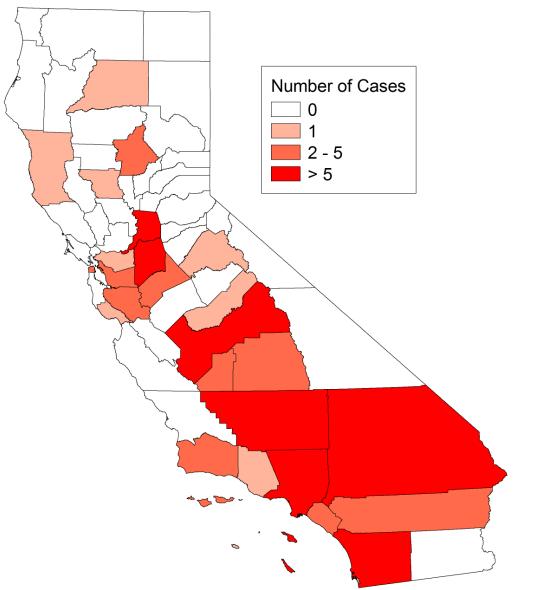
Congenital Syphilis Cases versus Female Early Syphilis* Incidence Rates, California, 2010–2016







Congenital Syphilis Number of Cases by County, California, 2016





Syphilis 101

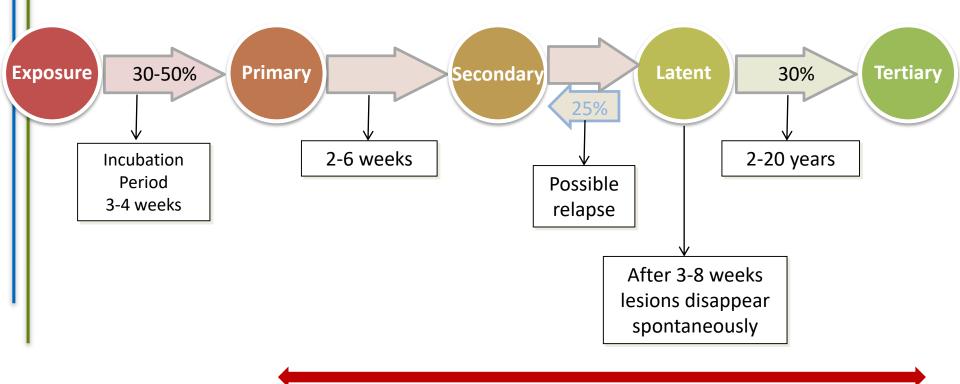
- Causative organism: Treponema pallidum, a spirochete bacterium
- Transmission:
 - Sexual (intimate skin-to-skin contact)
 - Vertical
 - Blood
- Causes systemic infection
- Characterized by episodes of active disease during which patients have signs/symptoms of infection, interrupted by periods of latent infection
 - Lab testing is required to diagnose patients
- Incubation period: 10-90 days



Prevention of congenital syphilis requires prevention/treatment of maternal syphilis



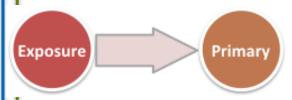
Syphilis Natural History





Neurosyphilis can occur at any stage

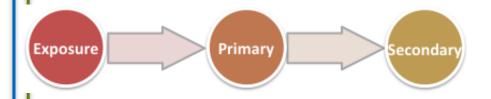
Primary Syphilis



- Chancre (ulcer) appears 10-90 days after infection
 - Single, painless, indurated, clean-based lesion with rolled edges (textbook chancre)
 - More likely to be multiple lesions and persisting at the time of secondary syphilis in HIV-infected patients
 - Can go unrecognized
- Can have regional adenopathy (rubbery, bilateral, painless)



Secondary Syphilis

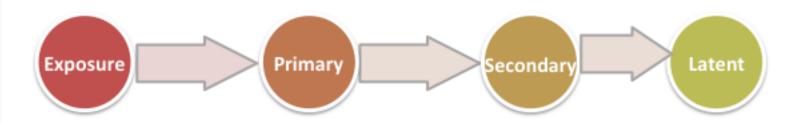


- Usually occurs 3-6 weeks after primary chancre
 - Rash (75-90%), involving palms/soles (60%)
 - Generalized lymphadenopathy (70-90%)
 - Constitutional symptoms (50-80%)
 - Mucous patches (5-30%)
 - Condyloma lata (5-25%)
 - Patchy alopecia (10-15%)
 - Symptoms of neurosyphilis (1-2%)
 - Less common: meningitis, hepatitis, arthritis, nephritis



Courtesy: Gregory Melcher, UC Davis Susan Philip, SF DPH & UCSF

Latent Syphilis

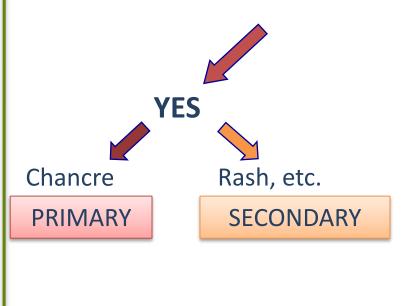


- No symptoms
- Relapse possible in early latent
- Important to treat to:
 - Prevent complications
 - Prevent transmission from pregnant woman to fetus



Syphilis Staging Flowchart

SIGNS OR SYMPTOMS?





LATENT

ANY IN PAST YEAR?

- Negative syphilis serology
- Known contact to an early case
- Good history of typical signs/symptoms
- 4-fold increase in titer
- Only possible exposure was this year



EARLY LATENT (< 1 year)



NO

LATE LATENT or UNKNOWN
DURATION



Treatment is Based on Duration of Infection

PRIMARY, SECONDARY, and EARLY LATENT (< 1 year)



Benzathine penicillin G 2.4 million units IM in a single dose

DURATION



Benzathine Penicillin G 2.4 million units once per week for 3 weeks**

**In pregnancy, should adhere to 7 days between doses

Bicillin L-A is the trade name. DO NOT USE Bicillin C-R!



CDC 2015 STD Treatment Guidelines www.cdc.gov/std/treatment

Syphilis Treatment Alternatives for Penicillin Allergic Non-Pregnant Adults

Primary, Secondary, & Early Latent

- ❖ Doxycycline 100 mg po bid x 2 weeks
- ❖ Tetracycline 500 mg po qid x 2 weeks
- Ceftriaxone 1 g IV (or IM) qd x 10-14 d
- ❖ Azithromycin 2 g po in a single dose*

Late Latent

- ❖ Doxycycline 100 mg po bid x 4 weeks
- Tetracycline 500 mg po qid x 4 weeks

In pregnancy, benzathine penicillin is the only recommended therapy. No alternatives.



* Do NOT use azithromycin in MSM or pregnant women



Who Should be Screened for Syphilis?

- Pregnant women at first prenatal visit
 - And again in the third trimester and at delivery (if at high risk, or residing in area with high syphilis morbidity)
- MSM, including those on PrEP
 - Annually, or more frequently, 3-6 months if at high risk (multiple, anonymous partners, meth use)
- Correctional settings
 - Universal screening based on local area or institutional incidence
- HIV-infected individuals (at least annually)
- STD clinics / Clients with other STDs



USPSTF Syphilis Screening Updated Recommendations in 2016

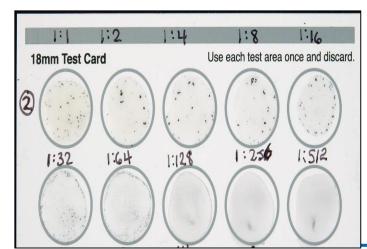
Non-Pregnant Adult/Adolescents

- USPSTF recommends screening in persons at increased risk for infection (Grade "A" recommendation)
 - Risk Assessment
 - MSM and HIV-infected individuals "highest risk for syphilis"
 - Other factors associated with increased prevalence rates include: history of incarceration or CSW, geography, race/ethnicity, male <29 yrs
- Optimal screening interval not well established
 - More frequent in MSM/HIV+ suggested by some data
 - Every 3 months enhances detection compared to annually



Diagnosing Syphilis

- Syphilis is diagnosed by:
 - Reviewing patient history
 - Assessing sexual risk
 - Conducting a physical exam
 - Interpreting serologic test results





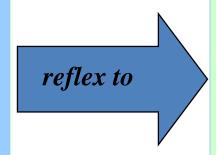


Syphilis Screening Paradigm

REVERSEISEQUAENCE

Treponemal tests (e.g., EIA, CIA, MBIA)

- •TP-SPECIFIC ANTIBODIES
- QUALITATIVE
- USUALLY DETECTABLE FOR LIFE
 - REACTIVITY DECLINES WITH TIME



Non-treponemal tests (e.g., RPR, VDRL)

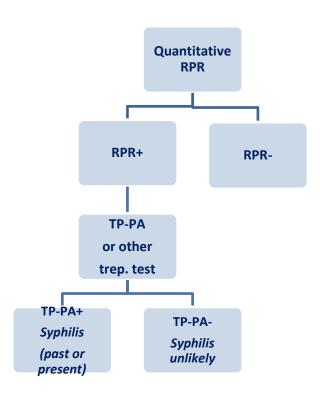
- NON-SPECIFIC ANTIBODIES TO LIPOIDAL ANTIGENS
- QUANTITATIVE
- REACTIVITY DECLINES WITH TIME



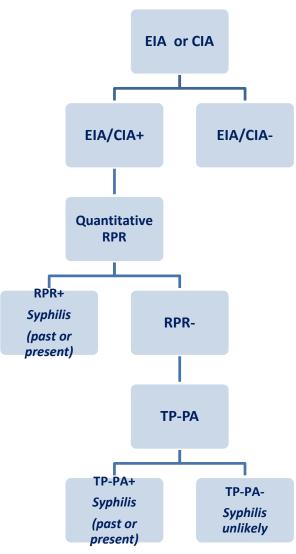
Need both types of serologic tests to make syphilis diagnosis; Use of only one type of test is insufficient.

Syphilis serologic screening algorithms

Traditional



Reverse sequence





Diagnostic Challenges

False negatives

- Early primary and late latent stages
 - Serology may be negative in up to 25% of primary syphilis cases
- Prozone reaction (RPR/VDRL)

Biologic False Positives

- Non-trep test positive with confirmatory Treponemal test negative
- Viral illnesses including HIV, recent immunizations, autoimmune and chronic diseases

Discordant serology

EIA or CIA + and RPR -









Use of Treponemal Immunoassays for Screening and Diagnosis of Syphilis

Guidance for Medical Providers and Laboratories in California

February 2016

CDPH has materials available online: std.ca.gov



Brief Clinical Overview of Congenital Syphilis

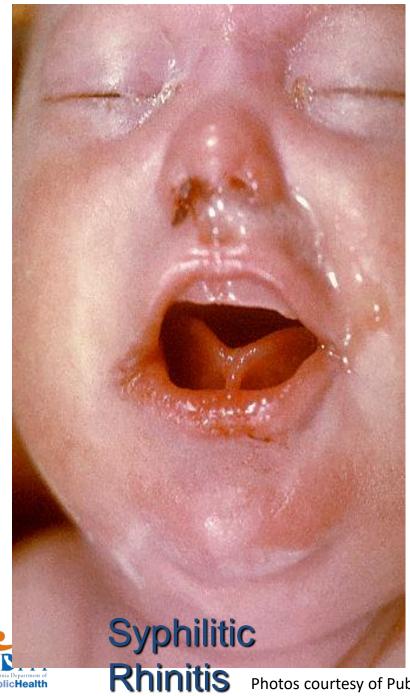




Early Congenital Syphilis (<age 2) Common Presentations

- Asymptomatic presentations are common
 - ~2/3 infants born with CS are asymptomatic at birth <u>if</u> <u>untreated will develop symptoms</u>
- Bone abnormalities
- Enlargement of liver +/- jaundice
 - Hepatomegaly present in almost all infants with CS
- Skin rash
- Nasal discharge ("snuffles")
- Blood abnormalities
- Neurologic abnormalities
- Others





Syphilitic Rash



Late Congenital Syphilis (>age 2) Common Presentations

- Hearing loss (puberty adulthood).
 - Can develop suddenly
- Interstitial keratitis (5 years old adulthood)
 - Inflammation of tissue of cornea, can lead to vision loss
- Bone or tooth abnormalities
- Neurologic abnormalities
- Gummas (granulomatous inflammatory response to spirochetes) in the skin or mucous membranes
- Others



Interstitial Keratitis





Hutchinson's Teeth



Permanent incisor teeth are narrow and notched.



Perforation of hard palate





Clutton's Joints



Syphilis in Pregnancy and Congenital Syphilis





Screening Recommendations – CDC

- All pregnant women should be screened for syphilis at the first prenatal visit
- Women who are at high risk for syphilis, live in areas of high syphilis morbidity, or are previously untested should be screened again both:
 - Early in the third trimester (approx 28 weeks GA)
 - At delivery

Penicillin treatment of pregnant women with syphilis is highly effective at preventing CS

Women who would benefit from additional syphilis testing in the 3rd trimester and at delivery include those who:

- Have signs and symptoms of syphilis infection
- Live in areas with high rates of syphilis, particularly among females
- Were diagnosed with an STD during pregnancy
- Receive late or limited prenatal care
- Have partners that may have other partners, or partners with male partners
- Have history of incarceration
- Are involved with substance use or exchange sex for money, housing, or other resources



Routine risk assessment should be conducted throughout pregnancy to assess risk factors and inform the need for additional testing.

CDC Screening Recommendations

- No infant should leave the hospital without the maternal serologic status having been determined at least once during pregnancy, and again at delivery if at risk.
 - If mother presents at delivery with no prenatal care,
 STAT RPR should be performed
 - If baby has congenital syphilis and is <u>asymptomatic</u>, there is still an opportunity to treat the infant to prevent further morbidity
- Any woman who delivers a stillborn infant should be tested for syphilis



Treatment of Syphilis in Pregnancy

- The only treatment of syphilis in pregnancy is penicillin. There are no alternatives.
- Pregnant women should be treated with the penicillin regimen appropriate for their stage of infection.
 - Some experts recommend a 2nd dose of benzathine penicillin G be given a week after the initial dose in early syphilis
- Pregnant women with penicillin allergy should be desensitized and treated with penicillin.



Highest risk of treatment failure occurs during early syphilis

Table 3. Success of Maternal Treatment to Prevent Congenital Syphilis by Stage of Infection

Stage	Success/Total treated	Percentage (95% CI)
Primary	27/27	100 (87.2, 100)
Secondary	71/75*	94.7 (86.9, 98.5)
Early latent	100/102	98 (93.1, 99.8)
Late latent	136/136	100 (97.3, 100)
Total	334/340	98.2 (96.2, 99.3)

CI = confidence interval.

Overall, maternal treatment is highly effective in the prevention of CS

Alexander JM, Sheffield JS, Sanchez PJ, et al.. Efficacy of treatment for syphilis in pregnancy. Obstet Gynecol 1999;93:5-8.



^{*} P = .03 compared with other groups, χ^2 .

Maternal treatment more likely to be successful when administered at earlier gestational age

Table 4. Success of Maternal Treatment in Preventing Congenital Syphilis by Gestational Age

Gestational age	Success/Total treated	Percentage (95% CI)
≤20 wk	152/153	99.4 (96.4, 100)
21-25 wk	51/51	100 (93.0, 100)
26-30 wk	58/59	98.3 (90.9, 100)
31-35 wk	44/46	95.6 (85.2, 99.5)
36-40 wk	26/28	92.9 (76.5, 99.1)
41-42 wk	3/3	100 (29.2, 100)
Total	334/340	98.2 (96.2, 99.3)

CI – confidence interval.

 $P = \text{not significant}, \chi^2$.

Alexander JM, Sheffield JS, Sanchez PJ, et al.. Efficacy of treatment for syphilis in pregnancy. Obstet Gynecol 1999;93:5–8.



Syphilis in Pregnancy: Management

- When syphilis is diagnosed during the second half of pregnancy, management should include an obstetric ultrasound
 - If hepatomegaly, ascites, hydrops, fetal anemia, or thickened placenta- greater risk of fetal treatment failure
- Women treated during second half of pregnancy are at risk for premature labor and/or fetal distress as part of Jarisch-Herxheimer reaction
 - Counsel to seek medical attention if symptoms
 - Concern for this complication should not delay treatment



Syphilis in Pregnancy:

Follow-up

- Titers at 28-32 weeks of gestation, delivery, and following recommendations for stage of disease
- Serologic titers can be checked monthly in high-risk women
- Clinical and serologic response should be appropriate for stage
 - Most women will deliver before serologic response to treatment can be assessed



What are common pathways that a women delivers a baby with CS?

Woman acquires syphilis **prior** to pregnancy

Not diagnosed, not tested

AND/OR

Not adequately treated

AND

SHE BECOMES PREGNANT

She acquires syphilis during pregnancy

Not diagnosed

(late to prenatal care or no prenatal care, early screen negative and not repeated, seroconverted afer birth)

AND/OR Not treated

(treatment not ordered, lost to follow up)

OR

Late to treatment

(treatment initiated <30 days prior to delivery)

OR

Inadequate treatment

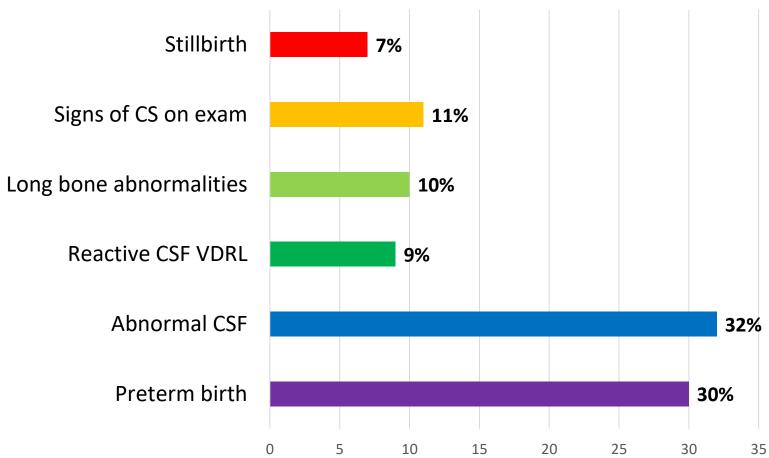
(wrong drug or dose, lack or delay in 2nd or 3rd shots for late latent syphilis)

RARELY, among those diagnosed and treated:

- Maternal treatment failure
- Fetal demise
- Permanent fetal damage prior to treatment



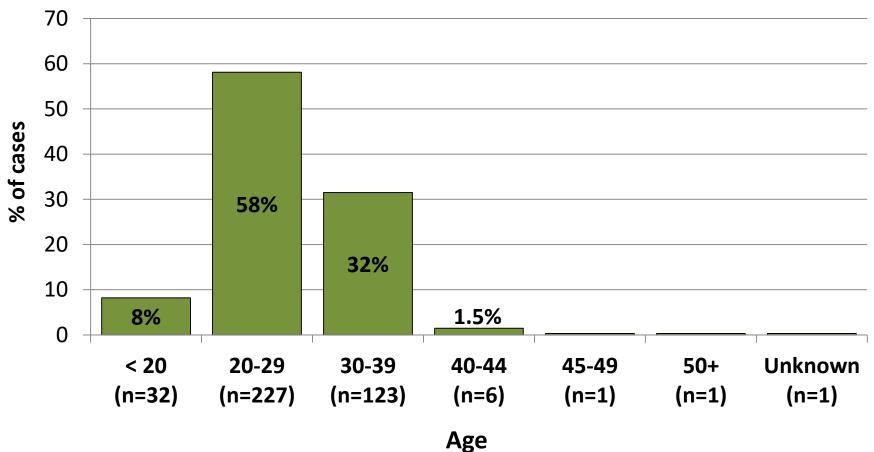
What do we know about the cases? California Project Area CS Cases 2007-2015: Infant Characteristics (n=391)





Credits: Stoltey, Ng

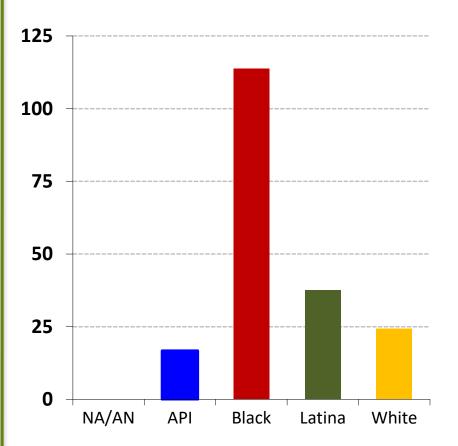
Percent of congenital syphilis cases, by maternal age at delivery: Majority of mothers were ages 20-29

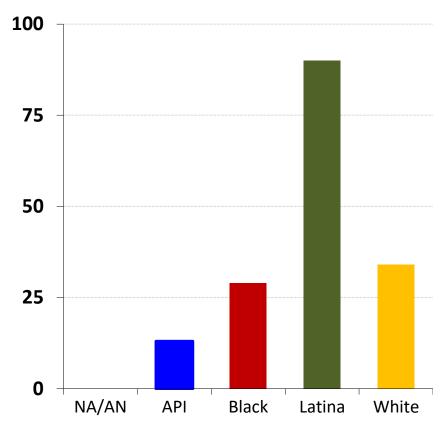




Congenital Syphilis

Incidence Rates per 100,000 (L) and Number of Cases (R) by Race/Ethnicity of Mother, California, 2016



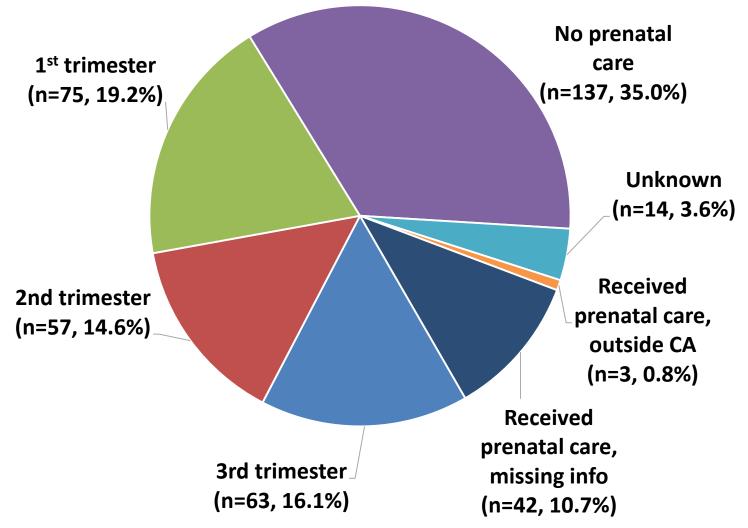


Incidence Rates

Number of Cases



When did mother initiate prenatal care? Over <u>half of mothers</u> initiated prenatal care only in 3rd trimester or not at all





Syphilis screening at first prenatal care visit

Among 199 mothers with documented first

prenatal visit:

Reasons for delay:

- Provider error
- Lab off-site
- Patient lost to follow-up and labs never drawn
- Surveillance data incomplete

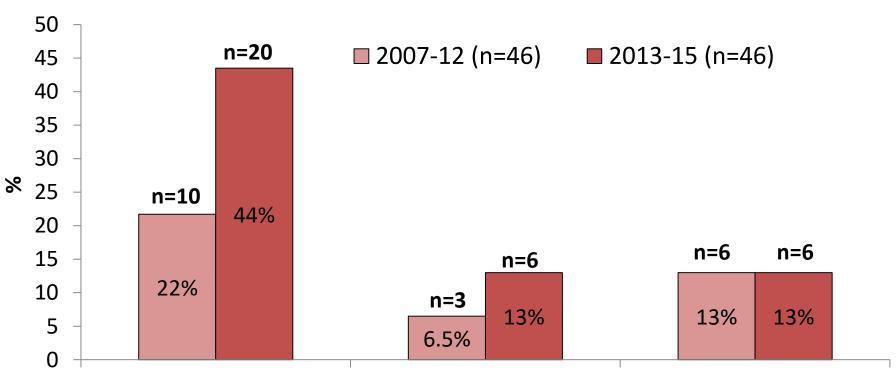
Delayed or not tested, **Tested within** n=80, 40% 7 days of first visit, n=119, 60%



Credits: Stoltey, Ng

Maternal risk characteristics for interviewed early syphilis cases (n=92)

70% (92 of 132) interviewed



Methamphetamine use Exchange of sex for money, Jail, juvenile hall, prison drugs

Risk in 12 months prior to diagnosis



Public Health Response: Points of Intervention to Prevent CS

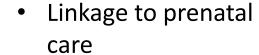
Prepregnancy

During pregnancy



Birth

- Screening/dx/tx
- Timely partner services
- Accessible highly effective contraception



- Screening/dx
- <u>Timely</u> treatment appropriate for stage
- <u>Timely</u> partner services
- Case management
- Prevent and detect new infection

 Evaluation and treatment of baby



Patient Education Materials

Protect Yourself and Your Baby from Syphilis

What is Congenital Syphilis?

Syphilis is a sexually transmitted disease (STD).

Congenital syphilis occurs when a pregnant woman with syphilis passes the infection to her unborn child.

This can cause serious problems like premature birth, low birth weight, birth defects and stillbirth.

What are Symptoms of Syphilis?

Most people with syphilis have symptoms such as a sore or rash. Even if they do, they may not notice

The only way to know for sure is to get tested!

Getting tested for syphilis is part of routine prenatal care.

Who Should Get Tested?

If you are pregnant or might get pregnant, it is important to get routine prenatal care.

Getting tested for syphilis and other STDs is part of routine prenatal care.

Pregnant women should get syphilis testing at the first prenatal visit.

Be sure to get your syphilis test results and follow any medical advice at that time.

These clinics offer FREE or **LOW-COST STD testing and** treatment and pregnancy planning services.

Clinic Name1

Street Address Phone: xxx.xxx.xxxx

Clinic hours (M-F, xx-xx)

Clinic Name2

Street Address

Phone: xxx.xxx.xxxx Clinic hours (M-F, xx-xx)

Clinic Name3 Street Address

Phone: xxx.xxx.xxxx Clinic hours (M-F, xx-xx)

Street Address Phone: xxx.xxx.xxxx Clinic hours (M-F, xx-xx)

Clinic Name6

Street Address

Clinic Name5

Street Address

Phone: xxx.xxx.xxxx

Clinic hours (M-F, xx-xx)

Phone: xxx.xxx.xxxx

Clinic hours (M-F, xx-xx)

For a complete list of free or low-cost clinics near you, visit https://gettested.cdc.gov/ or call Public Health at xxx-xxx-xxxx.

Health Department



Protecting Yourself and **Your Baby**

from Syphilis

Get Yourself Tested!

You can get syphilis and other STDs more than

If you need to get tested or would like more information on protecting yourself and your baby, talk to your health care provider, or visit a local clinic.

These clinics offer FREE or LOW-COST STD testing and treatment and pregnancy planning services.

Clinic Name1

Street Address City Phone: xxx.xxx.xxxx

Clinic Hours (M-F, xx-xx)

Clinic Name2 Street Address

Phone: xxx.xxx.xxxx Clinic Hours (M-F, xx-xx)

Clinic Name3 Street Address City

Phone: xxx.xxx.xxxx Clinic Hours (M-F, xx-xx)

Clinic Name4 Street Address

City Phone: xxx.xxx.xxxx Clinic Hours (M-F, xx-xx)

Clinic Name5 Street Address

Phone: xxx.xxx.xxxx Clinic Hours (M-F. xx-xx)

Clinic Name6 Street Address

Phone: xxx.xxx.xxxx Clinic Hours (M-F, xx-xx)

For a list of free or low-cost clinics near you, go to https://gettested.cdc.gov/ or call Public Health at xxx-xxx-xxxx.

> County Public Health logo here



is part of routine prenatal care.

Pregnant women should get tested for syphilis at the first prenatal visit.

Be sure to get your syphilis test results and follow any medical advice at that time.

How is Syphilis Treated?

vphilis can be cured, even during pregnancy. roper treatment will help prevent your baby om becoming infected.

e sure to inform your sex partner(s) because nev will need to be tested and treated too. This vill help them stay healthy, avoid infecting thers and avoid reinfecting you.



The clinics listed on the front of this brochure offer FREE or LOW-COST STD testing and treatment and pregnancy planning services.

If you would like to customize and distribute within your LHJ, contact Ashley Dockter at

ashley.dockter@cdph.ca.gov

Update for Health Care Providers



CONCERNING INCREASES IN SYPHILIS IN WOMEN AND CONGENITAL SYPHILIS:

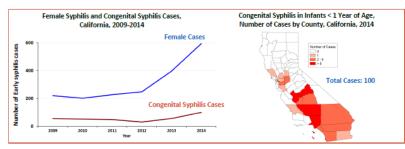


AN UPDATE FOR CALIFORNIA HEALTH CARE PROVIDERS

THE PROBLEM: INCREASING CONGENITAL SYPHILIS IN CALIFORNIA

California has had a concerning increase in syphilis among women over the past two years. This has been accompanied by a tripling of congenital syphilis cases from 2012 to 2014. In 2014, most female early syphilis cases and congenital syphilis cases in California were reported from the Central Valley and Los Angeles County. 1 Most women who gave birth to babies with congenital syphilis received prenatal care late in pregnancy or not at all.

This increase in numbers of congenital syphilis cases in California is an important public health problem requiring immediate attention from medical providers caring for pregnant women and women of reproductive age.



WHAT IS CONGENITAL SYPHILIS?

Congenital syphilis occurs when syphilis is transmitted from an infected mother to her fetus during pregnancy. It is a potentially devastating disease that can cause severe illness in babies including premature birth, low birth weight, birth defects, blindness and hearing loss. It can also lead to stillbirth and infant death.2

CONGENITAL SYPHILIS CAN BE PREVENTED!

Congenital syphilis can be prevented with early detection and timely and effective treatment of syphilis in pregnant women and women who could become pregnant. Preconception and interconception care should include screening for HIV and sexually transmitted diseases (STDs), including syphilis, in women at risk, in addition to access to highly effective contraception.

PRENATAL SCREENING: IT'S THE LAW!

All pregnant women should receive routine prenatal care which includes syphilis testing. In California, it is required by law that pregnant women get tested for syphilis at their first prenatal visit.3

Syphilis testing should be repeated during the third trimester (28-32 weeks gestational age) and at delivery in women who are at high risk for syphilis or live in areas with high rates of syphilis, 4 particularly among females. Routine risk assessment should be conducted throughout pregnancy to assess the risk factors highlighted in the box on page 2; this should inform the need for additional testing.

Infants should not be discharged from the hospital unless the syphilis serologic status of the mother has been determined at least once during pregnancy and, for at-risk women, again at delivery.

- 1. California Department of Public Health (CDPH) Sexually Transmitted Diseases Control Branch Congenital Syphilis Prevention Guidance http://www.cdph.ca.gov/
- 2. Centers for Disease Control and Prevention Syphilis Fact Sheet http://www.cdc.eov/std/syphilis/stdfact-
- 4. Centers for Disease Control and Prevention 2015 Treatment Guidelines for Syphilis in Pregnancy http://www.cdc.gov/std/tg201

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OMEN WHO WOULD BENEFIT FROM ADDITIONAL SYPHILIS STING IN THE THIRD TRIMESTER (28-32 WEEKS) AND AT LIVERY INCLUDE THOSE WHO:

Have signs and symptoms of syphilis infection.

Live in areas with high rates of syphilis, particularly among females. Receive late or limited prenatal care.

Did not get tested in the first or second trimester.

Have partners that may have other partners, or partners with male partners. Are involved with substance use or exchange sex for money, housing, or other resources.

COMMON MISTAKES

Not reporting syphilis cases to local health departments within

Not strictly adhering to treatment guidelines for pregnant women with syphilis.

Not properly conducting routine pregnancy to determine need for

AGNOSING SYPHILIS

hilis is diagnosed by reviewing patient history, taking a sexual risk assessment, physical exam, and blood tests, king the diagnosis of syphilis requires interpretation of both treponemal and non-treponemal serology tests results. guidance on interpreting syphilis test results, refer to the CDPH screening and diagnostic guide listed in the ources for Health Care Providers section.

PHILIS TREATMENT

atment for a pregnant woman is based on the stage of her infection. To prevent adverse pregnancy outcomes, sicians should treat patients as soon as possible. Treating a pregnant woman infected with syphilis also treats her

Treatment for Early Syphilis (determined to be less than one year's duration)

nzathine penicillin G 2.4 million units by intramuscular injection in a single dose

Treatment for Late Latent Syphilis or Unknown Duration

Benzathine penicillin G 2.4 million units by intramuscular injection every 7 days for 3 weeks (7.2 million units total)

regnancy, penicillin is the only recommended therapy. Pregnant women with penicillin allergies should be ensitized and treated with penicillin.⁷ There are no alternatives.

pregnant women, benzathine penicillin doses for treatment of late latent syphilis must be administered at 7-day rvals; if a dose is missed or late, the entire series must be restarted.

RTNER TREATMENT AND THE ROLE OF LOCAL HEALTH DEPARTMENTS

OR

ause sex with an untreated partner can cause re-infection, it is especially important to ensure that the partner(s) eive treatment and to inform pregnant women about the risk to their infants if they have sex with an untreated tner. Local health departments are key collaborators in the prevention of congenital syphilis, and can assist with

ifornia law requires that all syphilis infections be reported to the local health department where the patient ides within 24 hours of diagnosis. Contact information for local health department staff working on syphilis ention and reporting can be found here: http://www.cdph.ca.gov/HealthInfo/Documents/

ESOURCES FOR HEALTH CARE PROVIDERS

ters for Disease Control and Prevention: http://www.cdc.gov/std/syphilis

fornia Department of Public Health (CDPH): http://www.cdph.ca.gov/programs/std

H, Use of Treponemal Immunoassays for Screening and Diagnosis of Syphilis <u>http://www.cdph.ca.gov/</u> sforms/Guidelines/Documents/Treponemal Immunoassays for Syphilis Screening and Diagnosis.pdf

Santis, M., De Luca, C., Mappa, I., Spagnuolo, T., Licameli, A., Straface, G., & Scambia, G. (2012). Syphilis infection during pregnancy: Fetal risks and clinical gement. Infectious Diseases in Obstetrics and Gynecology, 2012.

Version 1 (August 11, 2015)



Public Health Services

Healthy Future

Date: March 23, 2016

To: Medical Care Providers

From: Alvaro Garza, MD, MPH, Health Officer

Julie Vaishampayan, MD, MPH, Assistant Health Officer

Please distribute to all providers and relevant medical staff in your office.

Health Alert

Ongoing Increase in Syphilis in Women Calls for Testing All Pregnant Women in the First & Third Trimester, and at Delivery

<u>Situation</u>: San Joaquin County is experiencing an increase in heterosexual transmission of syphilis, syphilis in women, and congenital syphilis. In 2015, 57% of syphilis was transmitted through heterosexual contact. Syphilis in women has increased dramatically and now accounts for 29% of all reported syphilis in the county. Six babies were reported with congenital syphilis in 2015 compared to two babies diagnosed with congenital syphilis in 2014. See Figure below.

The Health Officer is designating San Joaquin County as an area with high syphilis morbidity.

Such a designation calls for all clinicians to follow host practices and guidelines as established by the CDBU CDC



CDC Call to Action

Efforts are needed:

- √ to create new tools;
- ✓ to detect and treat syphilis;
- √ increase testing;
- ✓ control the further spread of syphilis; and
- ✓ improve electronic medical records in order to improve patient outcomes.

CDC Call to Action

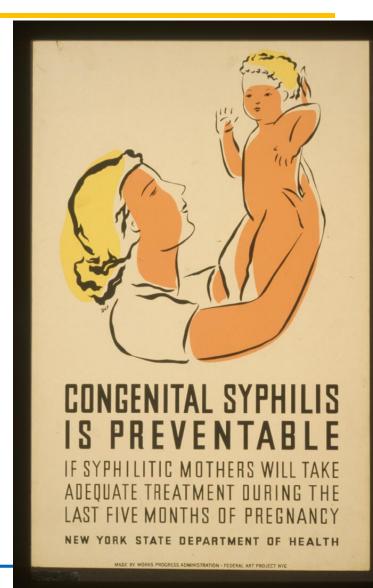
Let's Work Together to Stem the Tide of Rising Syphilis in the United States





Take-Home Points: Congenital Syphilis in California

- Female syphilis and congenital syphilis cases are increasing in California.
- Most congenital syphilis cases <u>can</u> and <u>should</u> be prevented.
- Test all pregnant women for syphilis.
- Treat syphilis as soon as possible contact health department if challenges obtaining penicillin G.
- Report to local health department within 24 hours.
- Ensure partners are treated to prevent reinfection. Local health departments are collaborators in the prevention of CS, and can assist.
 - Confirm syphilis testing at delivery.





Hepatitis C

- Rates of hepatitis C are increasing among women of childbearing age in California
- Test pregnant women for hepatitis C if at risk
 - HIV+; ever injected drugs, even once many years ago
- Vertical transmission risk of HCV: 5% HCV+; 15-20% if HIV+/HCV+
- Currently no prophylaxis to prevent MTCT
 - Treat BEFORE pregnancy; HCV treatment not currently recommended during pregnancy
- "Perinatal hepatitis C" (hepatitis C in an infant ages 2-36 months) reportable to public health as of January 2018
- Curative HCV direct-acting antiviral treatments FDA approved for persons 12 years of age and older



Clinical Guidelines and Consultation



www.cdc.gov/std/treatment/



STD Clinical Consultation Network

Enter your consult online at:

www.stdccn.org



CDC STD Treatment Guidelines App Available now, free



juliet.stoltey@cdph.ca.gov 510-620-3408

