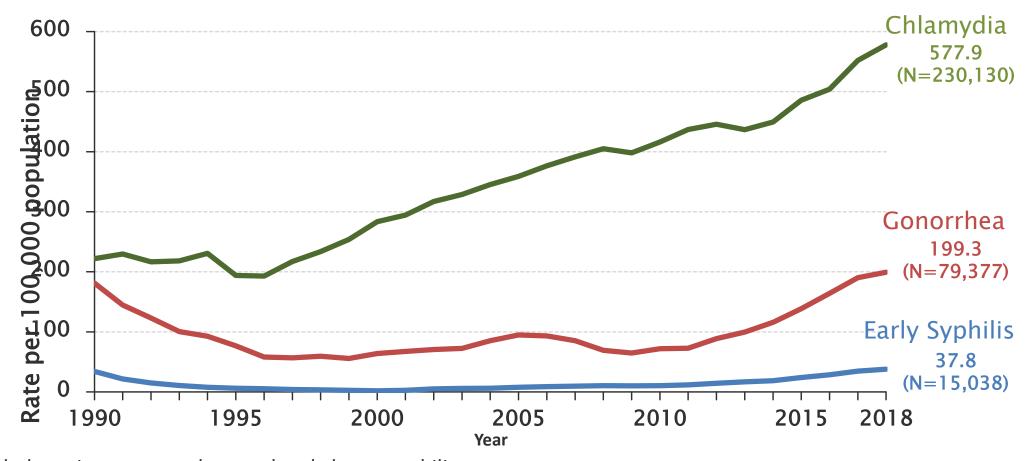
### STDs in California: Increasing Morbidity, Priorities for Public Health Follow-up

**CCLHO Meeting** 

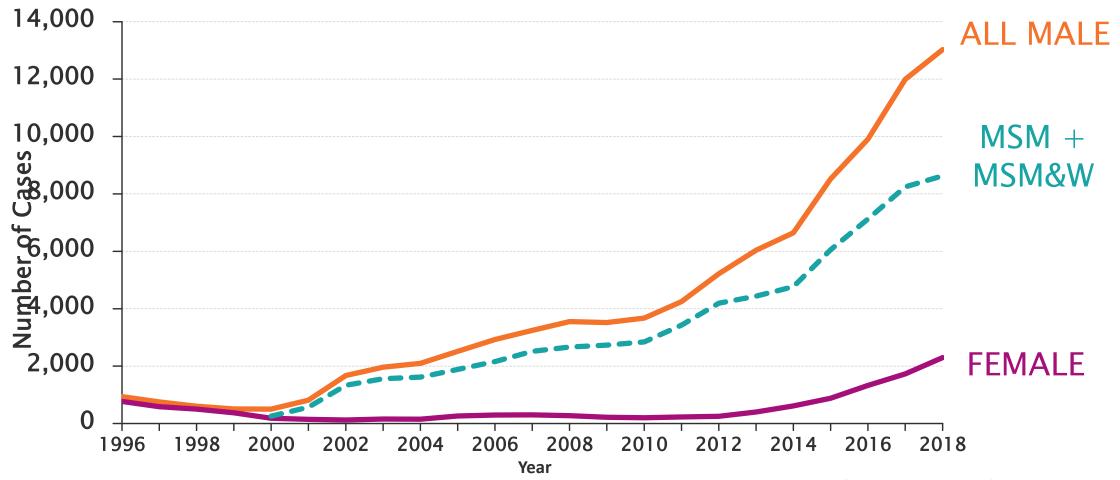


### Chlamydia, Gonorrhea, and Early Syphilis\* California Incidence Rates, 1990-2018



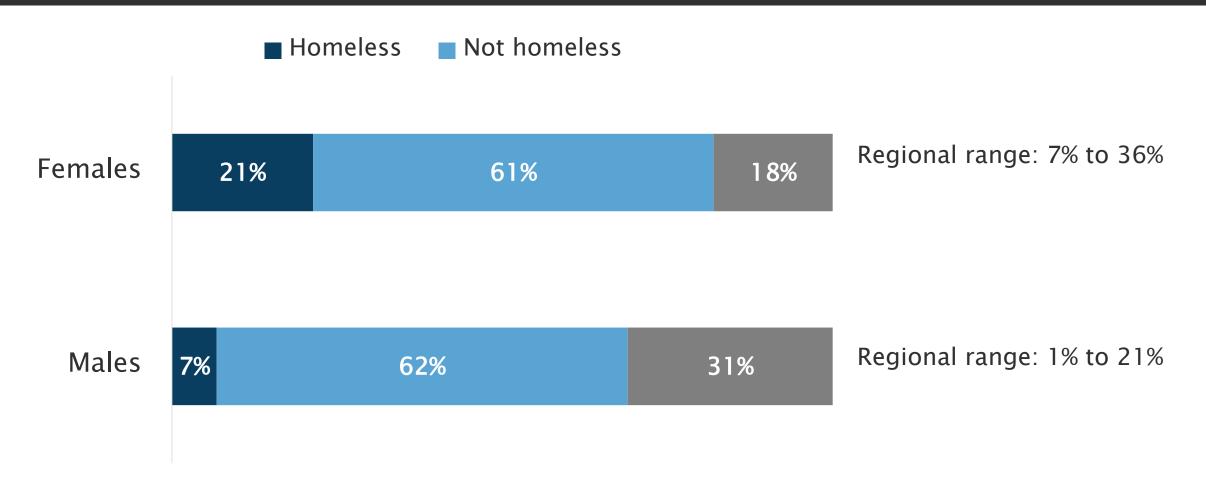
<sup>\*</sup> Includes primary, secondary, and early at entury this povisional STD surveillance data as of 3/6/19. Not for public distribution.

### Early Syphilis Cases by Gender California, 1996–2018



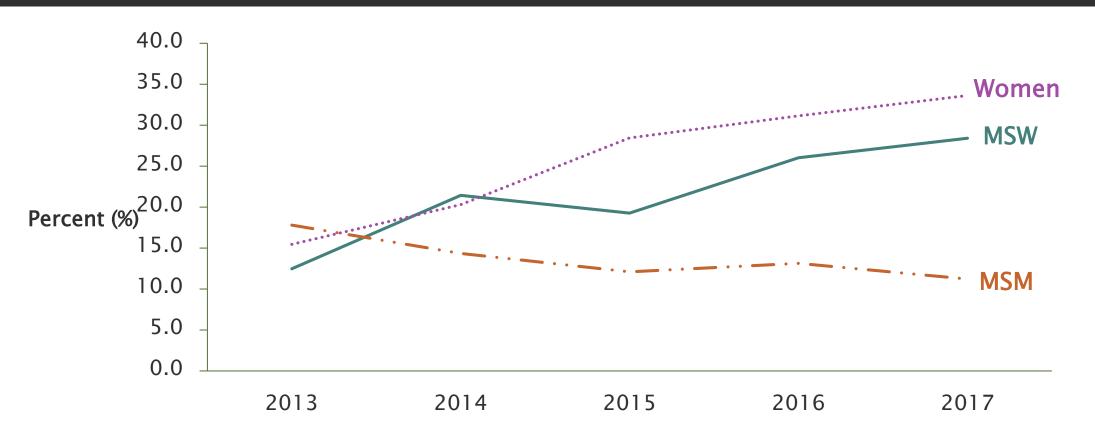
Data Source: Provisional STD surveillance data as of 4/9/19. Not for public distribution.

## Homelessness/Unstable Housing Among Early Syphilis Cases, California Project Area, 2018



Data Source: Provisional STD surveillance data as of 4/9/19. Not for public distribution.

# Reported Methamphetamine Use\* Among Early Syphilis Cases by Sex and Sexual Behavior, California Project Area, 2013–2017



methamphetamine use in the 12 months prior to syphilis diagnosis (27% of cases had missing or unknown methamphetamine use and were excluded from the denominator).

Abbreviations: MSM = gay, bisexual, or other men who have sex with men; MSW = men who have sex with women only.

#### Considerations for Prioritization

### Local public health resources must be prioritized to address areas of most significant need and impact.

- ♦ Severity of adverse health outcomes
- Potential for prevention
- ♦ Infectiousness, risk to the community
- Inequities, vulnerability of the people affected
- ♦ Opportunities for improving health
- ♦ Accurate tests and effective treatment

- Vaccine availability
- ♦ Evidence based interventions
- Medical and other costs to society
- Return on investment-favorable costbenefit
- Stakeholder interest-political will, funding & community support
- Resources and capacity

### Medical Providers are Critical Partners in STD Prevention

#### Role of Providers (Private, Public & Community Clinics)

- > STD testing, treatment and partner management is essential for Chlamydia and Gonorrhea
  - ✓ Ensuring Screening and Treatment
  - ✓ Expedited Partner Therapy (e.g. Patient Delivered Partner Therapy), an evidence-based intervention for chlamydia
  - ✓ Timely and Complete Reporting to local Public Health

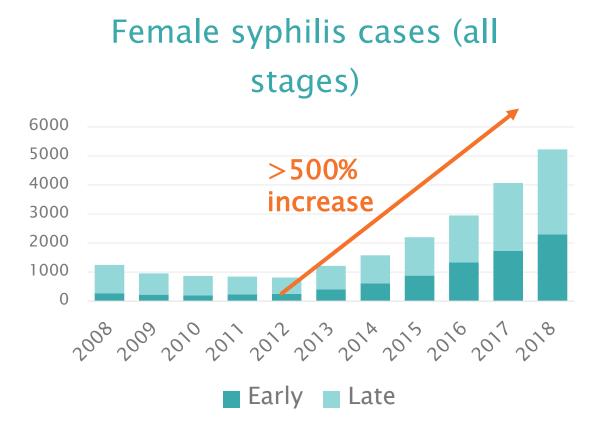
### Where Public Health Programs Pick Up the Charge

- > Ensuring linkage to care is essential for priority diseases such as Syphilis & HIV
  - ✓ Monitoring treatment outcomes and re-engage in care
  - ✓ Public health investigation and "interview for sexual social network partners" or "contract tracing" is an essential prevention strategy

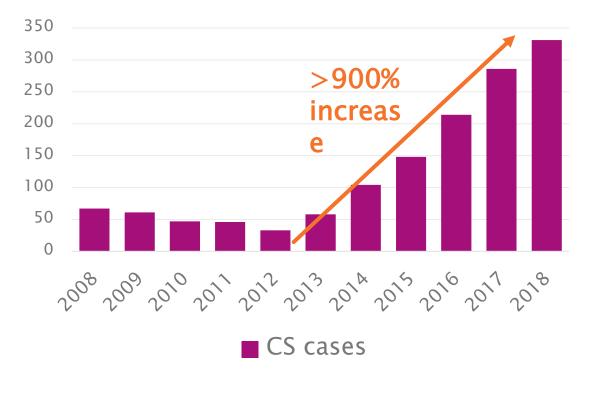
### **Congenital Syphilis Prevention**

Prevention of CS cases is an urgent public health priority!

### increasing in California since 2012.

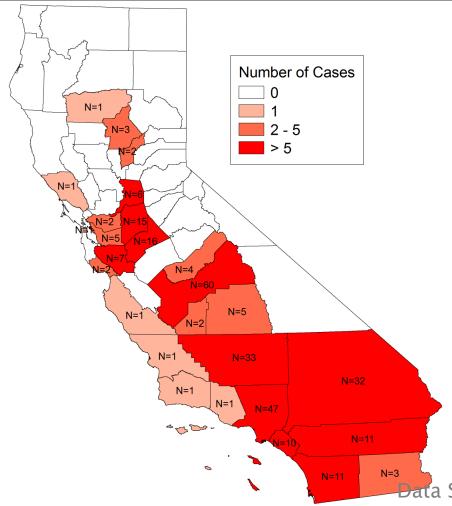


#### Congenital syphilis cases



Data Source: Provisional STD surveillance data as of 4/9/19. Not for public distribution.

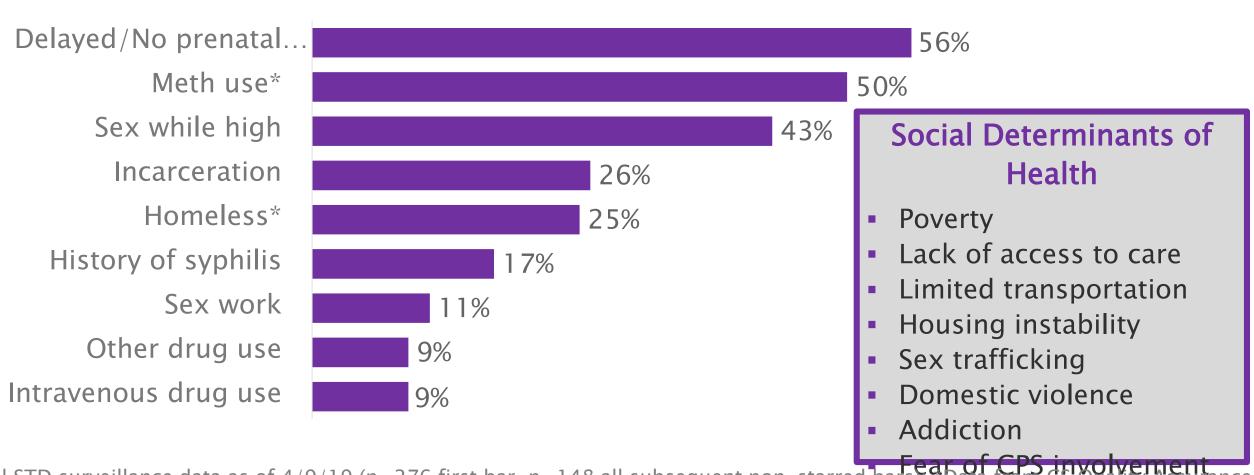
### The highest morbidity counties are in the Central and Southern regions of the state.



In 2017, 9 (out of 58) counties in California reported ≥10 congenital syphilis cases.

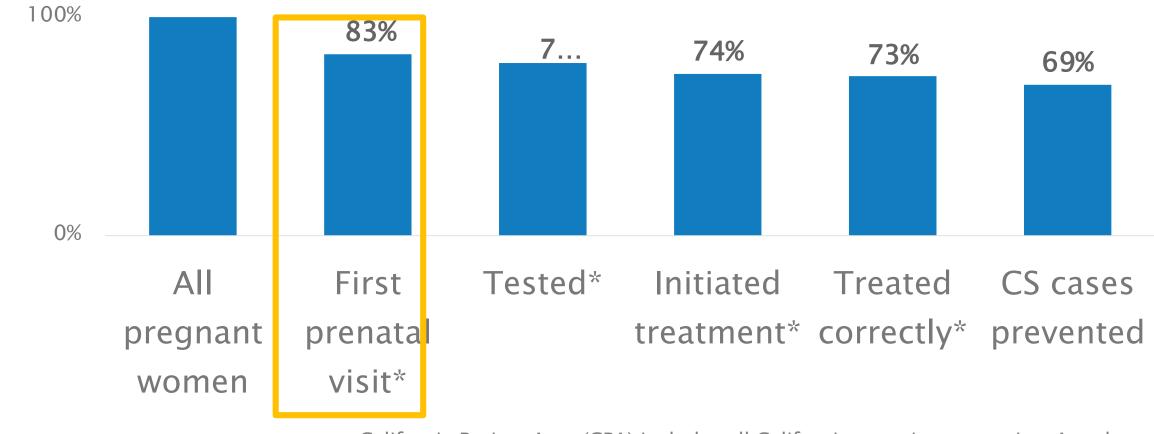
Data Source: 2017 STD surveillance data. Not for public distribution.

### Maternal Risk Factors Reported by Mothers of Congenital Syphilis infants, California Project Area, 2018



nal STD surveillance data as of 4/9/19 (n=276 first bar, n=148 all subsequent non-starred bars), Data from CS Quality Assurance

### Congenital Syphilis Prevention Cascade Metrics California Project Area, 2018



California Project Area (CPA) includes all California counties except Los Angeles and San \*  $\geq$ 30 days prior to

Francisco. N=792.

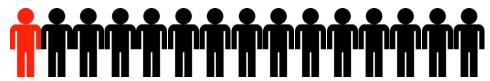
D :: 16TD :: 54/0/10 N : 6

#### **HIV Prevention**

Syphilis as a pathway for HIV prevention... an essential strategy in Getting to Zero for HIV!

## STDs increase the risk of HIV among men who have sex with men (MSM).

Rectal GC or CT



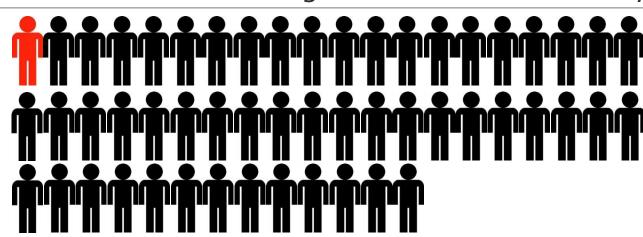
1 in 15 MSM were diagnosed with HIV within 1 year.\*

Primary or Secondary Syphilis



I in 18 MSM were diagnosed with HIV within 1 year.\*\*

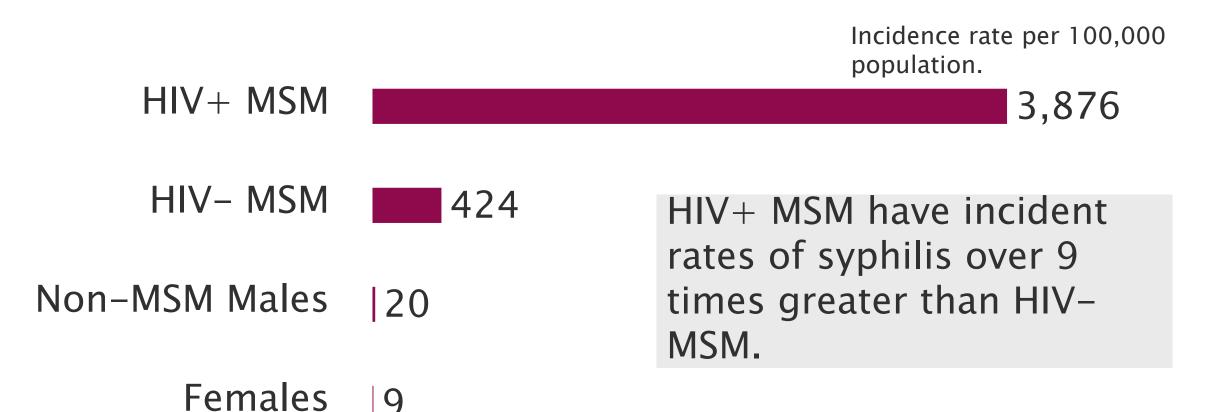
No rectal STD or syphilis infection



1 in 53 MSM were diagnosed with HIV within 1 year.\*

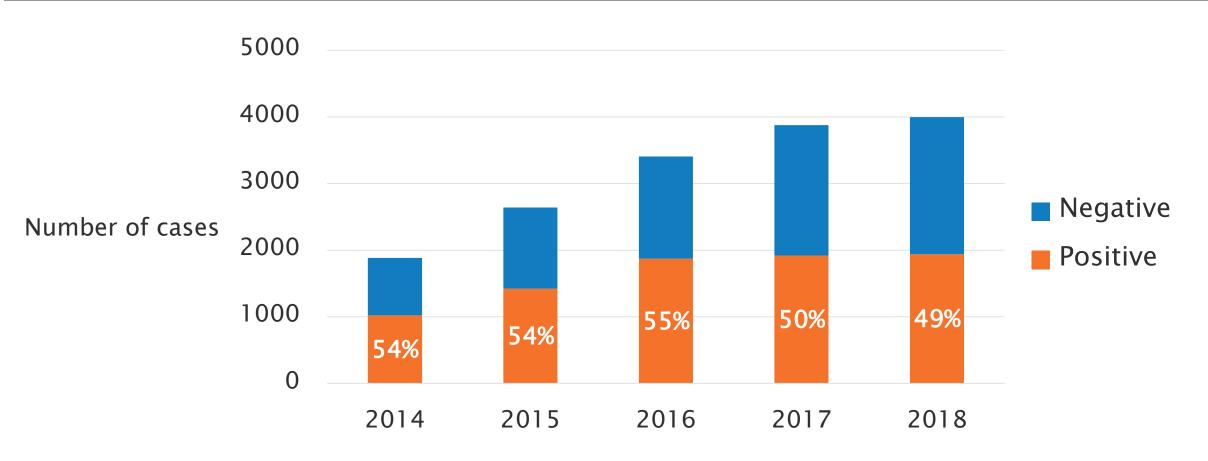
\*STD Clinic Patients, New York City. Pathela, CID 2013:57; \*\*Matched STD/HIV Surveillance Data, New York City. Pathela, CID 2015:61

# Early Syphilis Incidence Rates by Sex, Gender of Sex Partner, and HIV Status, California, 2017



Provisional data; Not for public distribution.

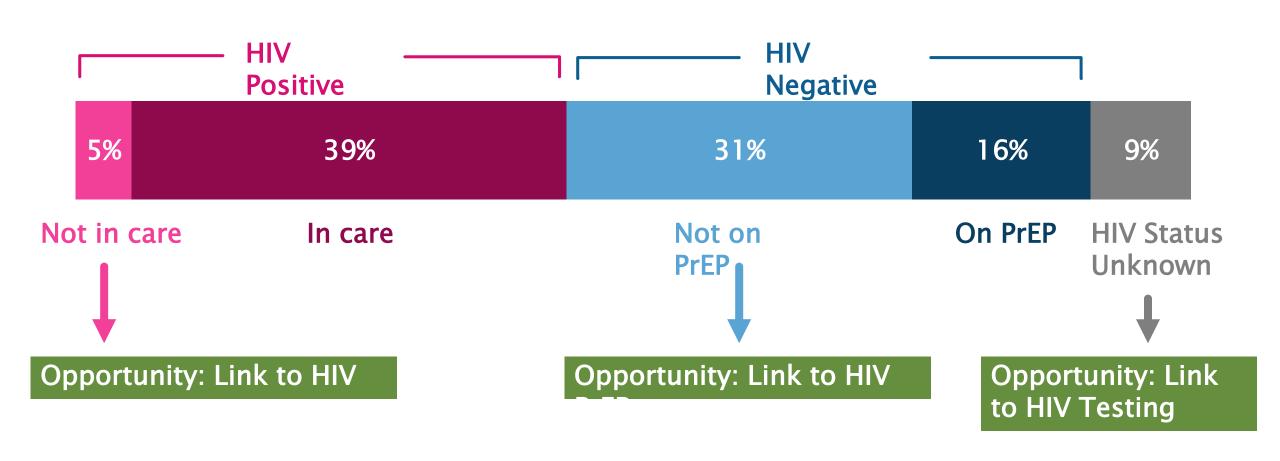
## HIV Status of Early Syphilis Cases Among MSM, California Project Area, 2014–2018



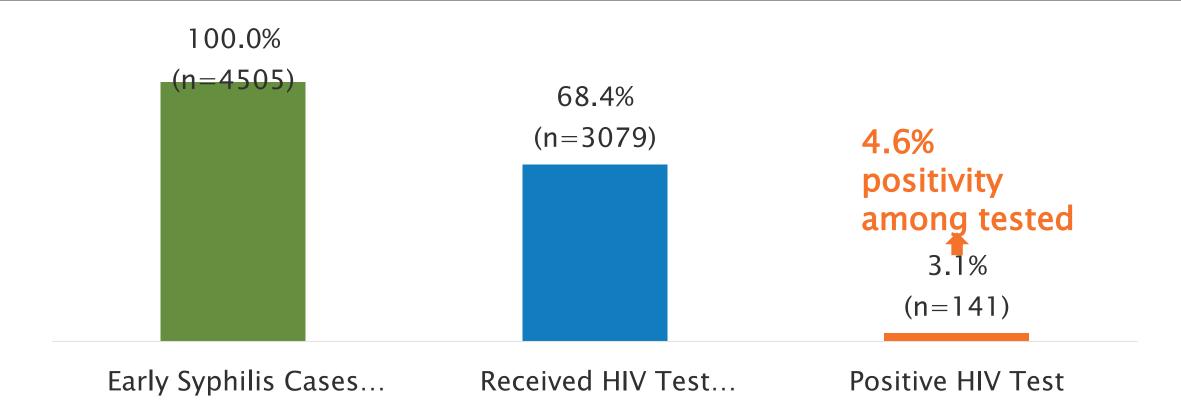
Note: Does not include HIV status unknown or refused to state: 2,195 or 12% of cases in 2014–2018.

Data Source: Provisional STD surveillance data as of 4/9/19. Not for public distribution.

# HIV Prevention and Care Opportunities among 4,383 MSM Early Syphilis Cases, California Project Area, 2018



### HIV Testing Among Early Syphilis Cases At-Risk for HIV\*, 2015-2018



\*All early syphilis cases reported in 3 counties integrating their STD and HIV programs' follow-up. s cases that are not known to be HIV-positive and have not received an HIV test within the 30 days prior to syphilis diagnosis date.

Data Source: Provisional STD surveillance data as of 4/9/19. Not for public distribution.

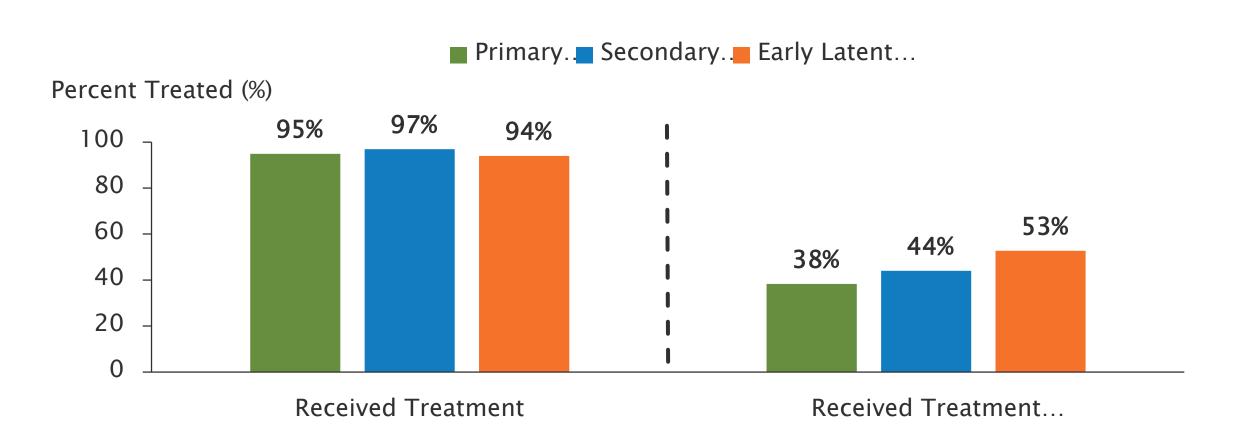
Priorities for Public Health Investigation What do we recommend and where do we stand..

AUGICSSIIIG IVVC QUIGCIIICS

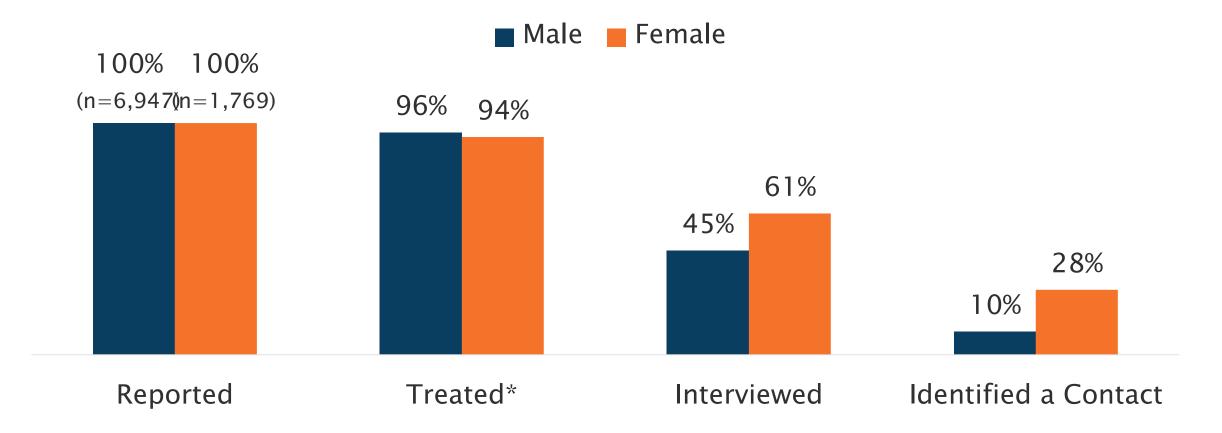
### Highest Priority Cases for Public Health Investigation

Public Health Strategy	Congenital Syphilis Prevention	HIV Prevention
Linkage to Care	<ul> <li>Pregnant women &amp; women of child bearing age with newly identified syphilis infection</li> <li>Male partners of female syphilis cases</li> </ul>	<ul> <li>Persons with newly identified HIV</li> <li>Persons "out of care"not virally suppressed</li> </ul>
Monitoring of treatment outcomes & laboratory data to initiate re-engagement in care	<ul> <li>Public health follow-up of females to ensure treatment completion (particularly with late syphilis)</li> <li>Monitoring of syphilis titers of post treatment to ensure appropriate titer response &amp; identify potential reinfection</li> </ul>	<ul> <li>Monitoring of HIV care &amp; laboratory data to initiate public health follow-up for re-engagement in care</li> <li>Monitoring of HIV laboratory data to identify increases in viral load</li> </ul>
Client interview & partner elicitation	<ul> <li>Pregnant women &amp; women of child bearing age with newly identified syphilis infection</li> <li>Male partners of female syphilis cases &amp; other men who have sex with women</li> </ul>	<ul> <li>Persons with newly identified HIV</li> <li>Persons "out of care" not virally suppressed</li> </ul>
Partner Testing & Treatment	<ul> <li>Notification of exposure, testing and treatment for sexual/needle sharing partners</li> </ul>	<ul> <li>Notification of exposure, testing and treatment for sexual/needle sharing partners</li> </ul>
Prophylaxis	<ul> <li>Preventative syphilis treatment for exposed partners who test negative</li> </ul>	<ul> <li>PrEP for exposed partners who test negative and other at-risk individuals</li> </ul>
Referral/Linkage to support and services	<ul> <li>Facilitate referral to housing, mental health, substance use treatment, etc.</li> </ul>	<ul> <li>Facilitate referral to housing, mental health, substance use treatment, etc.</li> </ul>

### Stage California Project Area, 2018



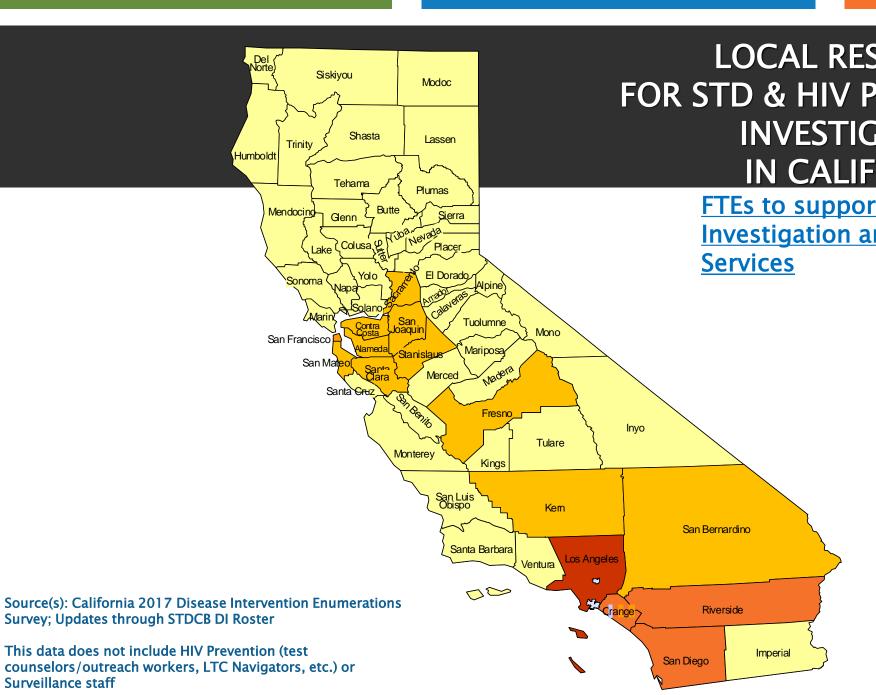
### Early Syphilis Case Continuum: Index Client Treatment and Partner Elicitation California Project Area, 2018



<sup>\*</sup>Reported cases with treatment occurring during the 30 days prior to, on, or after the specimen collection date.

Data Source: Provisional STD surveillance data as of 4/9/19. Not for public distribution.

### Local Health Jurisdiction Resources Current Status and Future Opportunities



#### LOCAL RESOURCES FOR STD & HIV PUBLIC HEALTH INVESTIGATION IN CALIFORNIA

FTEs to support STD/HIV Disease Investigation and Surveillance Based Partner 1 or Less\*

- 2 to 4\*\*
- 5 to 9\*\*
- 10 plus

\*The majority of these local health jurisdictions employ public health nurses or CDIs for whom STD & HIV are only part (5% - 30%) of their overall CD workload

\*\*Many of these LHIs are understaffed given workload; supervisors/managers, where they exist, are also conducting investigations and client interviews

# Local Disease Intervention Infrastructure Insufficient to Support Dual Epidemic...resulting in missed opportunities to prevent CS and HIV!

- High volume workload for investigators (DIS & PHN)- 50 to 90 simultaneous investigations
  - DI managers across the country suggest more reasonable workloads to support quality work and outcomes...30-40 investigations with 10-15 cases
- In an effort to prioritize there is de-prioritization of public health follow-up and interview by diagnosis (e.g. No more early latent) or gender (e.g. no more males)
- Local policies for "client contact attempts" may not equal previous standards for thorough investigation
  - Movement away from field visits to phone and mailed letters to improve efficiency
     & save time
  - Closing out case investigation at 30 days whether or not client is treated or interviewed
- Cursory efforts in sexual and social partner elicitation and investigation
  - Our numbers do not look good, but are we REALLY doing the "Partner Services"

#### What can be done...

- Potential for Increased STD Funding in the Governors Budget
  - STDCB currently hosting the California CSHCA STD Advisory Group to discuss program priorities and funding formulas
    - Webinars in April & May
- Current STDCB Local Assistance Funding (Fiscal Year 2019/2020)
  - Formula prioritizes congenital syphilis and HIV prevention work through weighted morbidity
  - Funded jurisdictions comprise 92% of Chlamydia and Gonorrhea, 95% of early syphilis, 97% of congenital syphilis cases in California (excluding San Francisco and Los Angeles)

#### What can be done...

- Local Assistance Funding Formula (Fiscal Year 2019/2020)
  - Formula inputs
    - POPULATION-BASED\*
      - 10%: mean population estimates for ages 12–30
      - 10%: mean population estimates for African American and Latino individuals
    - MORBIDITY-BASED\*\*
      - 80%: weighted mean case counts
        - All gonorrhea = 1
        - Infectious syphilis among males = 25
        - All syphilis cases among non-pregnant females age 15-44 = 50
        - All syphilis cases among pregnant females = 100
           \*Based on Department of Finance data 2015-2017. \*\*Based on surveillance data 2015-2017.

### What can be done...

- CDPH OA HIV Prevention funding (18–1802) allows integrated syphilis and HIV efforts to support HIV prevention
- Local efforts to garner data to inform proposals for funding and practice standards
  - Public Health Alliance of So Cal is conducting workload analysis to be used by LHJs to advocate for funding of DIS
    - Information from the STD program infrastructure survey will be used to support disease intervention workload analysis and better understand current STD funding and infrastructure
  - Potential for collaborative development of disease investigation standards for syphilis interview and partner services
- STDCB available for technical assistance and prioritization discussion