

Stemming the Rising Tide of Syphilis in California

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Syphilis Summit, January 9-10, 2017

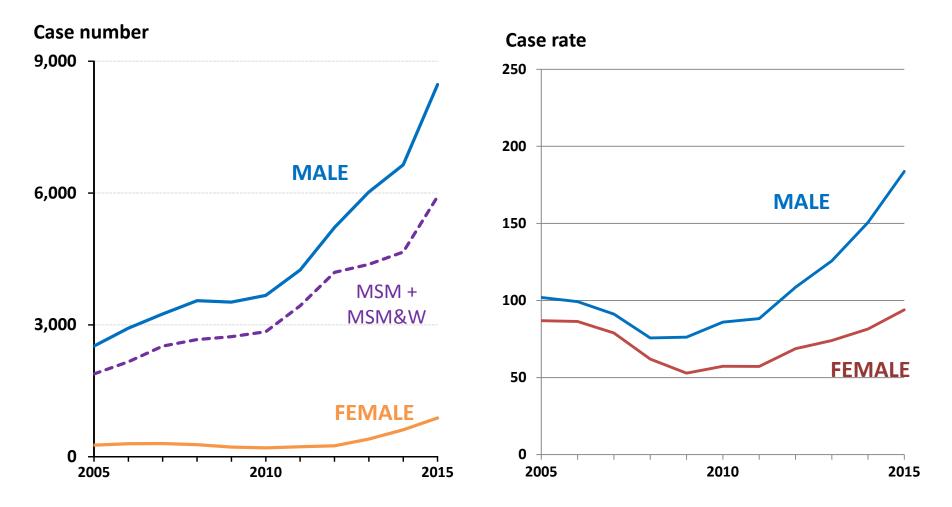
Goals of the Presentation

- 1. Describe the current situation
- 2. Explore potential contributing factors
- 3. Consider current and future strategies

Re-consider current strategies
 Re-frame our role
 Re-define goals
 Re-direct resources
 Leverage partnerships



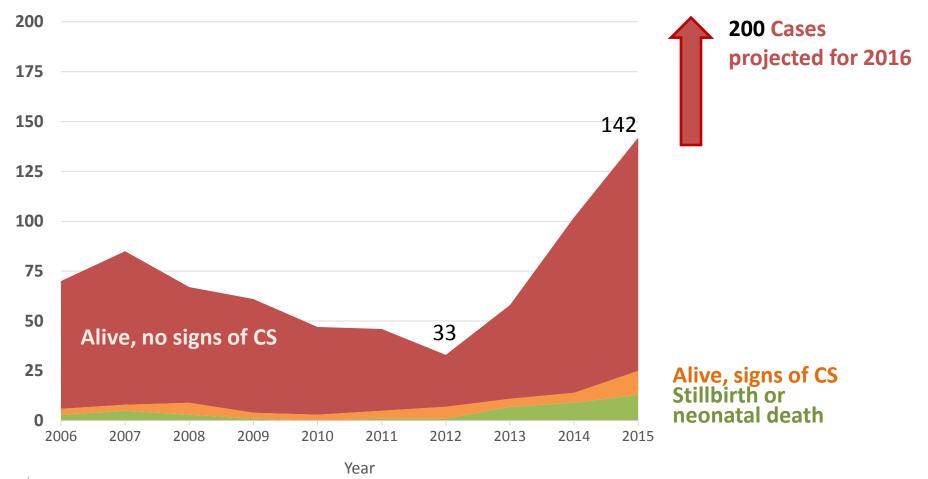
Early Syphilis & Gonorrhea by gender, CA, 2005–2015



*In 2015, MSM made of 70% of MALE early syphilis cases and 63% of MALE GC cases.



Congenital Syphilis Cases by Vital Status and Presence of Signs, California, 2006–2015

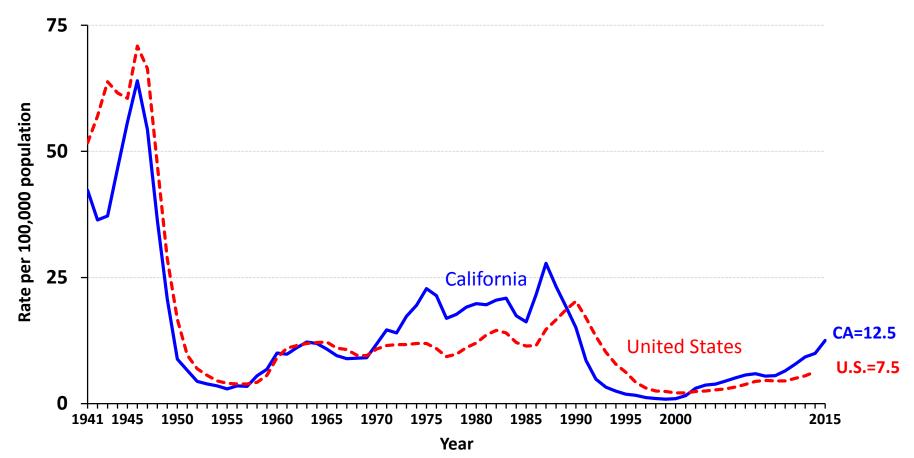




Note: Alive, no signs includes alive with missing documentation on signs/symptoms.

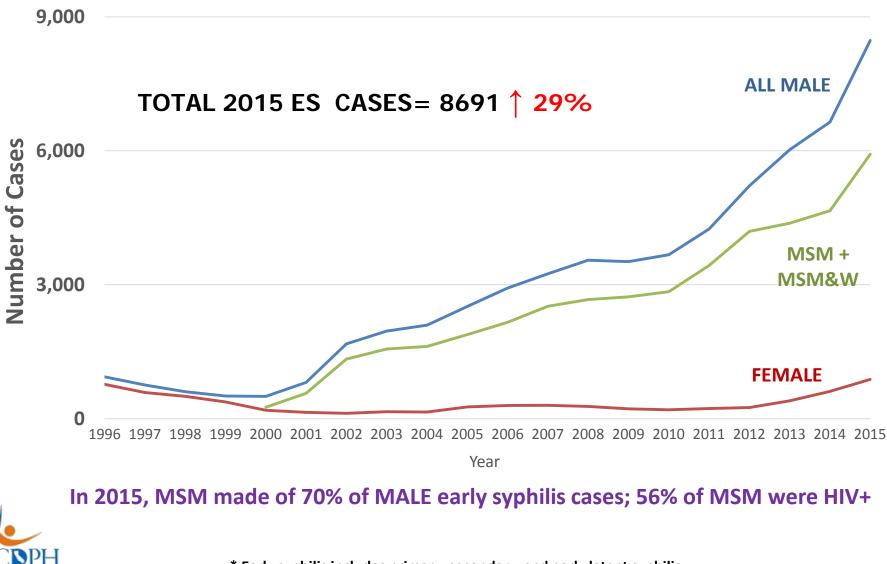
Of 142 total cases in 2015, 117 alive w no signs, 12 alive with signs of CS, 13 stillbirth or neonatal death.

Primary & Secondary Syphilis, California versus United States Incidence Rates, 1941–2015



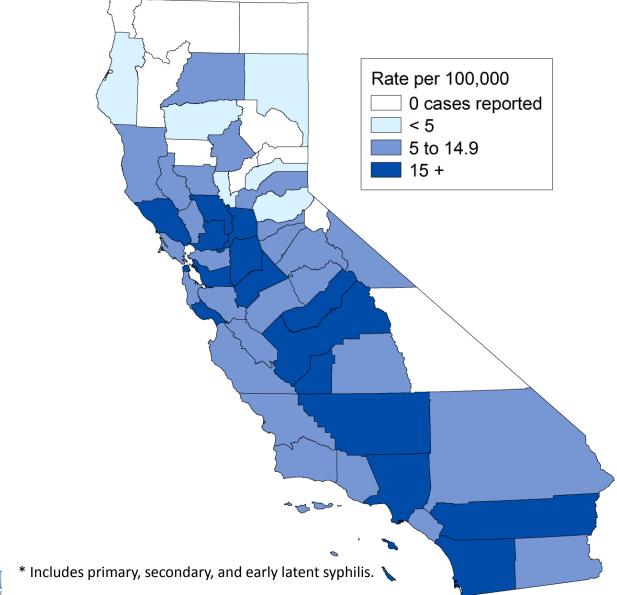


Early Syphilis*, Number of Cases by Gender & Gender of Sex Partners, California, 1996–2015



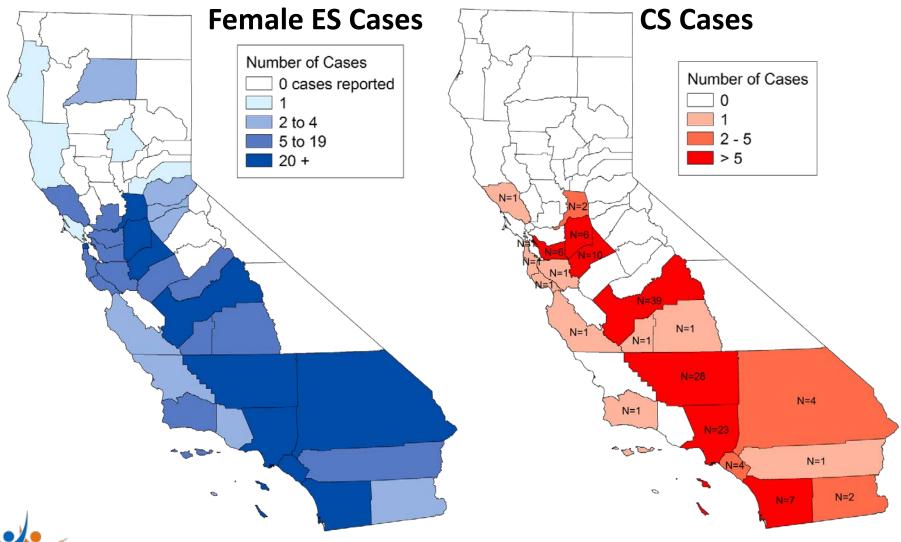
* Early syphilis includes primary, secondary, and early latent syphilis.

Early Syphilis*, Incidence Rates by County California, 2015



PublicHealth

Early Syphilis* among Females of Childbearing Age (15-44) AND Congenital Syphilis, Number of Cases by County, California, 2015

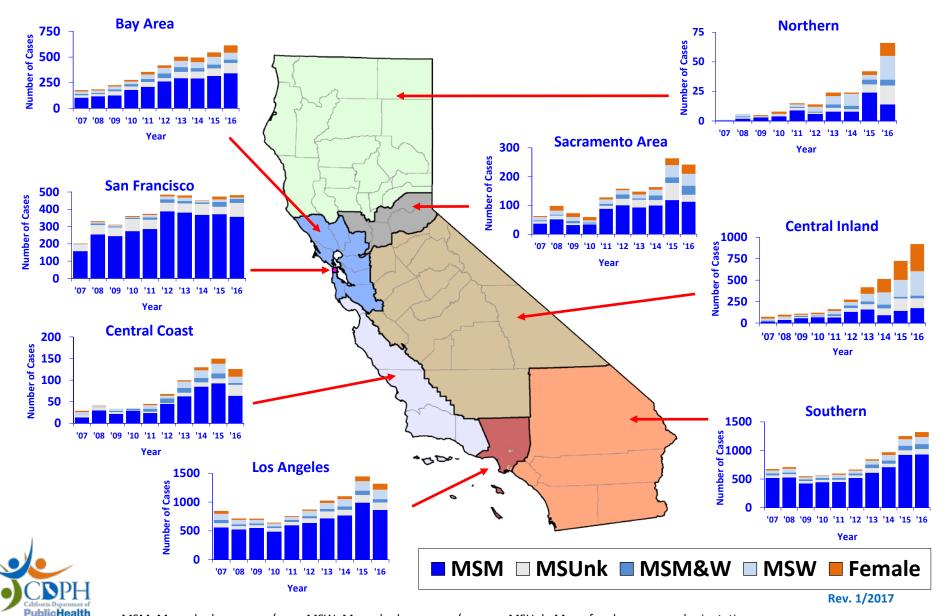


California Department of PublicHealth

* Includes primary, secondary, and early latent syphilis.

Total= 142 CS cases

Number of Primary & Secondary Syphilis Cases by Region, Sexual Orientation, and Year, California, 2007–2016



MSM=Men who have sex w/men, MSW=Men who have sex w/women, MSUnk=Men of unknown sexual orientation

WHY???

- What is causing these increases?
- Why here?
- Why now?



• What has changed?

Sexual Health: Prevention Strategies

	HIV	STDs	Pregnancy
Condoms			
ART: Treatment as Prevention			
PEP and PrEP			
HIV Serosorting			
Circumcision		S	
Partners - # and concurrency			
STD Testing & Treatment	?		
Hormonal contraception, LARC			

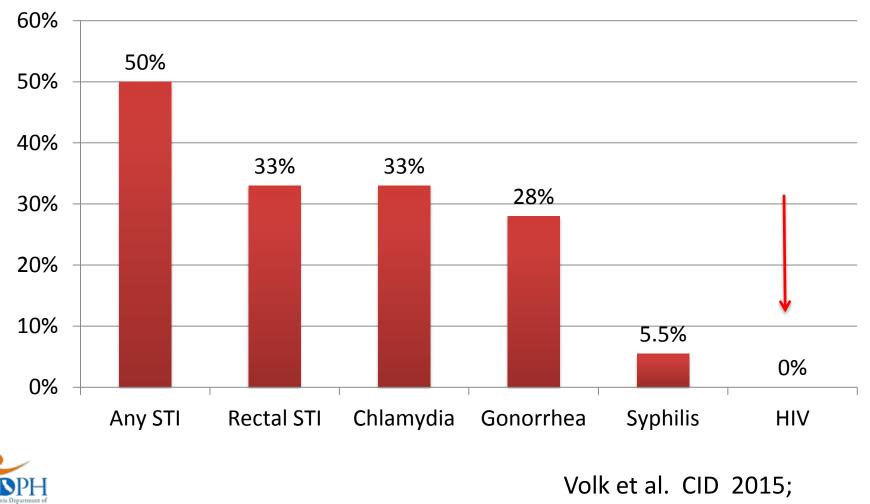


HIV PrEP?



PrEP and STIs Kaiser Permanente San Francisco

STI Incidence After 12 Months of PrEP Use



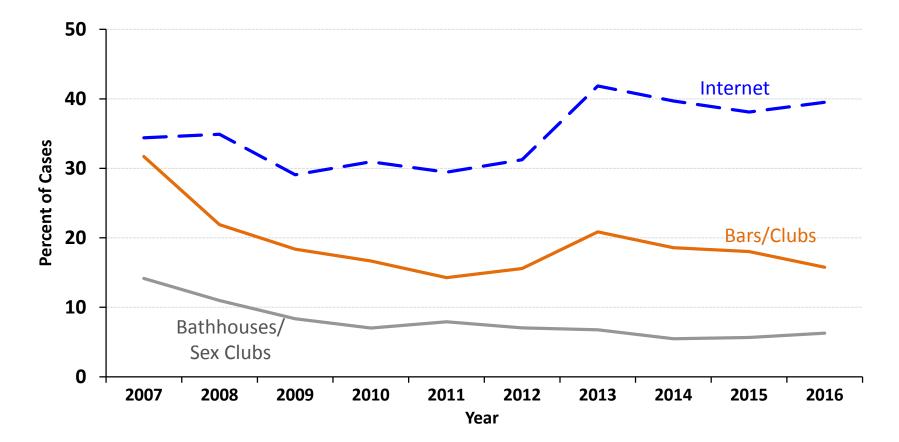
Slide courtesy J. Volk

PrEP-ortunity to Engage in Care

- PrEP requires quarterly HIV testing/visits
- Engages highest risk persons
- Opportunity for education and counseling
- Frequent STD testing/screening
- Detection bias (↑STD)→ Advantage in interrupting transmission thru treatment



Percent of Interviewed Primary & Secondary Syphilis Cases who Reported Meeting Sex Partners at Specified Venues, among Men who Have Sex with Men, California, 2007–2016





Mobile Hook-up Apps?





Dating and Hook Up Sites?

CNGUSH CSPAÑOL FRANÇAIS PORTUGUÊS DEUTSCH	ITALIANO
	MANHUNT
	OVER 40,653 MEN ONLINE NOW
	Need an account?
	Want to learn more?
	Member Name:
	Password:
	Did you forget your member name or password?
Convertient	condex your password?
	Mobile & Smart Phone Versions Read More
	MOBILE RADAR webApp RADAR nativeApps
ADAM	
	Each member must certify that he is 18 years of age or older. All profile photos are posted by members solely for the purpose of meeting other members. <u>RTA</u>
	Home About Us Contact Us FAQs Advertise Community Guidelines User Agreement Privacy Copyright 2011 A4A Network Inc. All Rights Reserved.

Bars, Bookstores, Bath Houses, Clubs, & Parties?



Access to STD Care?



12 STD
 Clinics in CA
 closed since
 2005

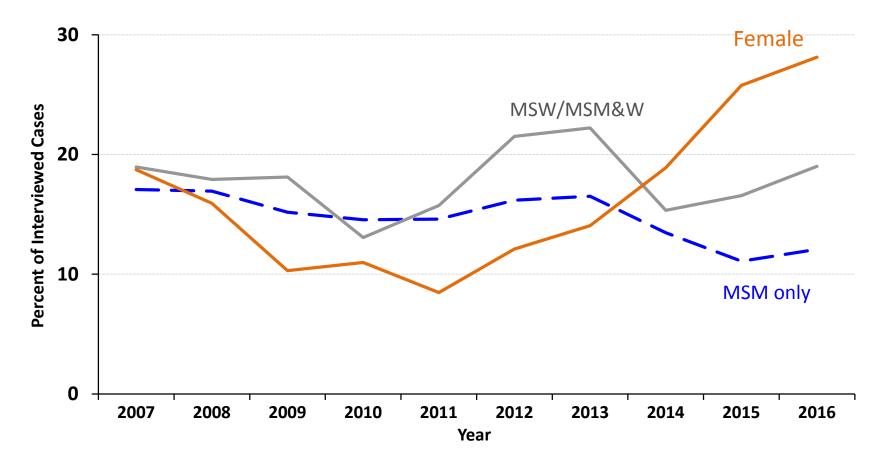
 4 Clinics reopened by 2014



Meth? Other drugs?



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



* Includes primary, secondary, and early latent syphilis.

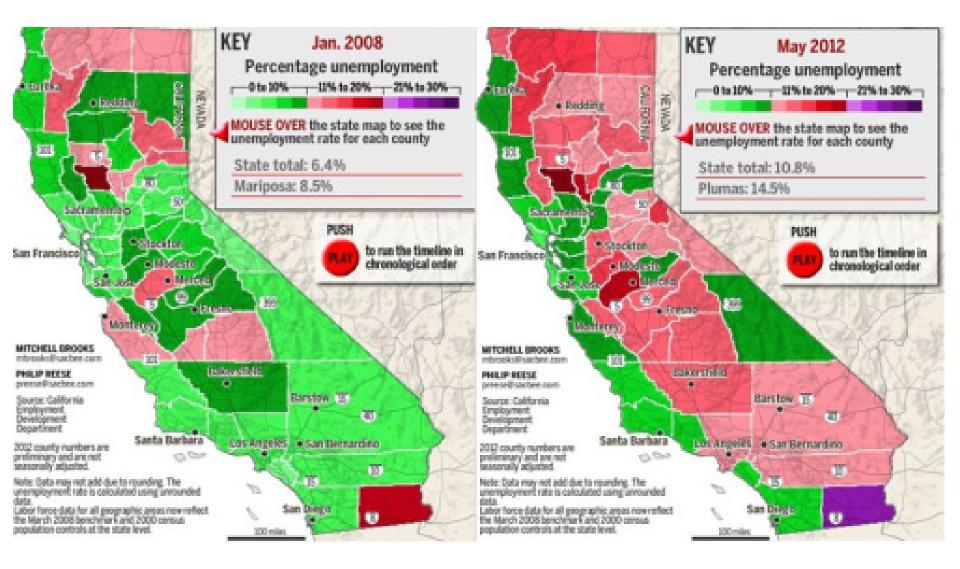
PublicHealth

MSM=Men who have sex w/men, MSW=Men who have sex w/women, MSU=Men of unknown sexual orientation

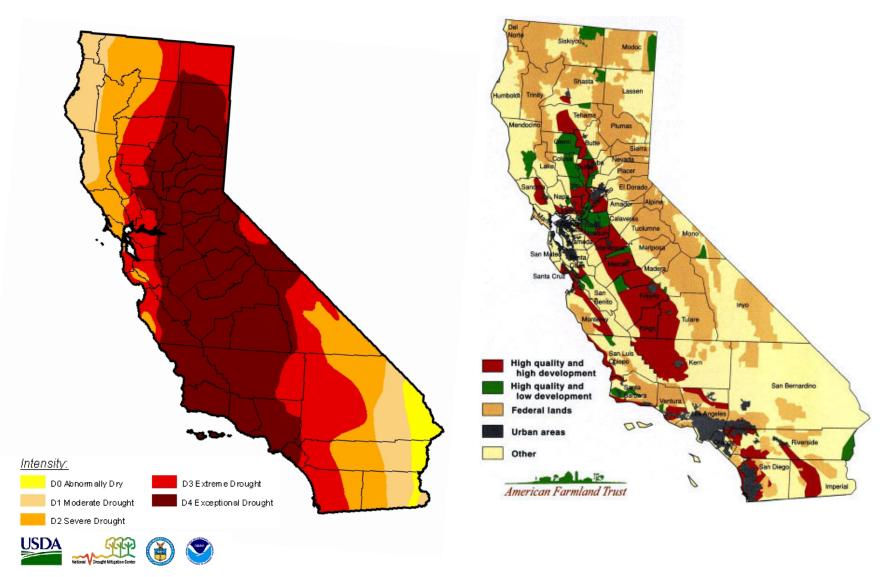
Poverty?



Effects of Recession on Unemployment

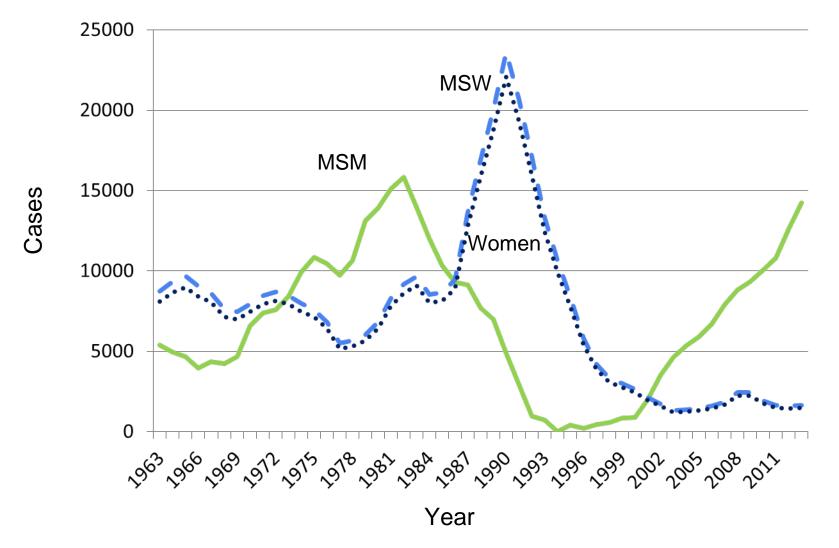


US Drought Monitor, Dec 2015 (L) and California Agriculture Land (R)



http://droughtmonitor.unl.edu/

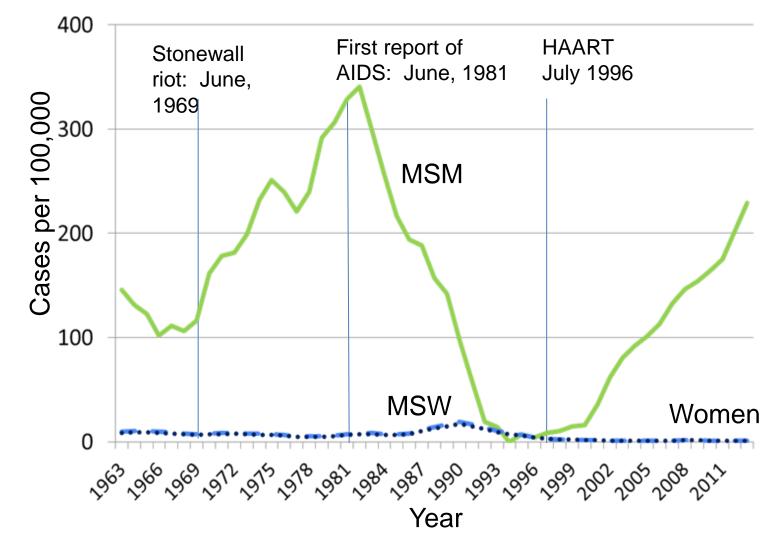
Primary and Secondary Syphilis among Men who have sex with Men (MSM), men who have sex with women only (MSW), and women. United States, 1963-2013



Estimated using modified Heffelfinger M:F rate ratio of 1.1236, assuming no MSM had syphilis in 1994

Peterman et al. Expert Rev Anti Infect Ther. 2015

Rates of Primary and Secondary Syphilis among Men who have sex with Men (MSM), men who have sex with women only (MSW), and women. United States, 1963-2013



Estimated using modified Heffelfinger M:F rate ratio of 1.1236, assuming no MSM had syphilis in 1994, and estimating 3.9% of men are MSM



Traditional Approaches to STD Control



- What is the right balance?
- How do we make the most of limited resources?
- What interventions are effective at reducing STDs among MSM?
- Should the goals be redefined around HIV prevention?



Future Approaches to STD Control

- How can we move "upstream" to identify policy/structural/institutional solutions?
- How can we raise awareness about social determinants of STD?
- How do we engage those most at risk?
 - What are the goals?
 - What messages are effective?
- How do we leverage potential partners?
- What is the role of technology and social media?



Partnerships:

Shared Responsibility, Aligned Resources

FOCUS	
Congenital syphilis	MCAH, Fetal death prevention, Birth defects prevention, MTCT of HIV prevention Health insurance providers, Ob/gyns & PNC providers, EDs Corrections, Drug Treatment
STD in MSM	HIV prevention, HIV care, PrEP providers CBOs serving LGBT, CSVs
Women	Family planning, pregnancy prevention, MCAH Health insurance providers, Ob/gyns
Youth	Schools (California Healthy Youth Act), teen clinics
Drug users	Corrections CBOs and drug treatment

Innovations & Technology

- ELR and ECR to improve surveillance efficiencies
- Improving access to testing: online testing options, Dean Street Clinic model
- Improved diagnostics: Point of care testing and same-day treatment, molecular tests for drug resistance
- Alternative antibiotics for GC
- Internet-based strategies for partner notification
- Social media, PrEP messaging



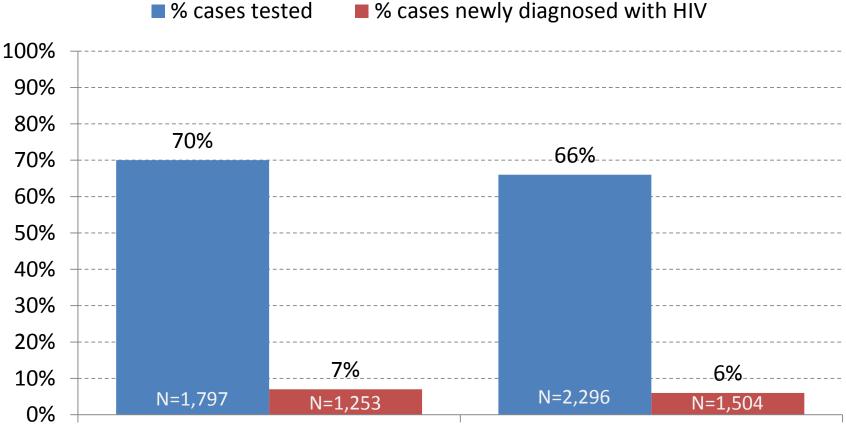
Re-Define Goals:

ublic Health

STD/HIV Integration for MSM Sexual Health

GOAL	Opportunities for Integration
HIV case finding	 HIV testing of early syphilis cases HIV PS for HIV coinfected cases HIV testing of partners
Linkage/Re- engagement with HIV Care	 HIV data sharing Linkage to care programs Outcome evaluation
HIV prevention	 Referral for nPEP, PrEP Counseling and referral
STD case finding	 Access to rectal/throat testing STD screening every 3 mo for PrEP STD screening for PLWH

HIV testing among early syphilis cases initiated for field investigation/HIV diagnoses, CPA 2014-2015

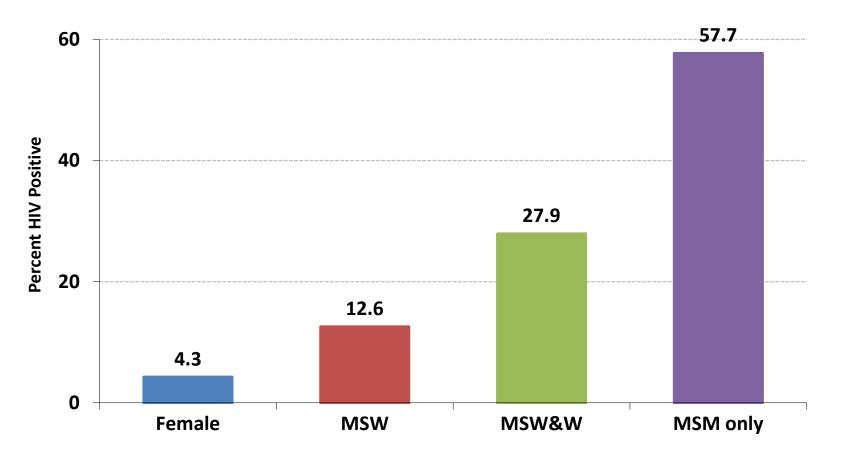


CY 2014

CY 2015



HIV Co-Infection Among Early Syphilis Cases California, 2015





THINK PrEP: STDs increase risk of HIV

Rectal GC or CT

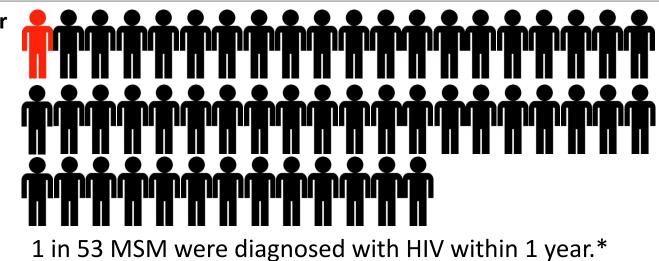
1 in 15 MSM wore diagnosed with HIV within 1 v

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

Primary or Secondary Syphilis



No rectal STD or syphilis infection





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

PrEP Messaging

WE PLAY SURE

Prep + condoms

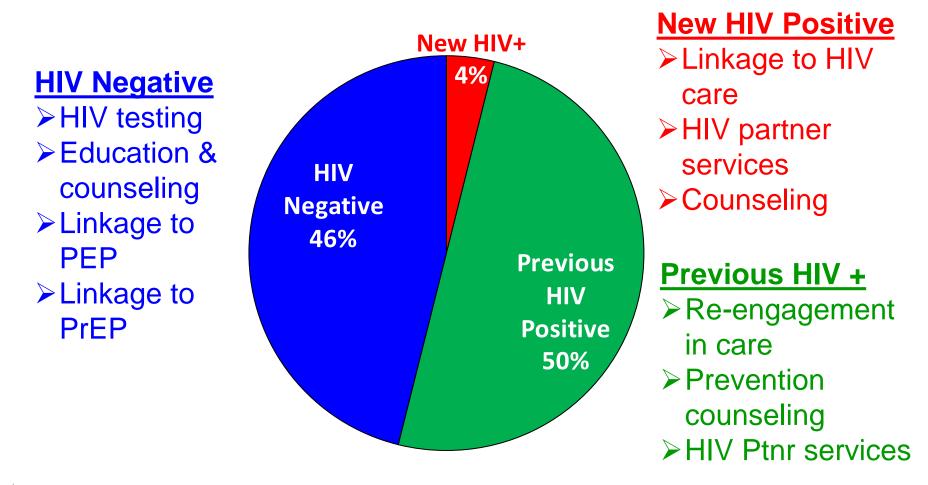
WE'RE CLOSER

THAN YOU THINK

Condoms are still an important way to prevent HIV. But now there's a once-per-day pill called PrEP that when used properly can be highly effective in preventing infection.

PrEP doesn't prevent other sexually transmitted diseases. Condoms, honest

HIV Status among Early Syphilis* Cases among MSM California Project Area & San Francisco⁺, 2014





Note: N=2,251; N does not include HIV status unknown or refused to state: 563 cases in 2014.

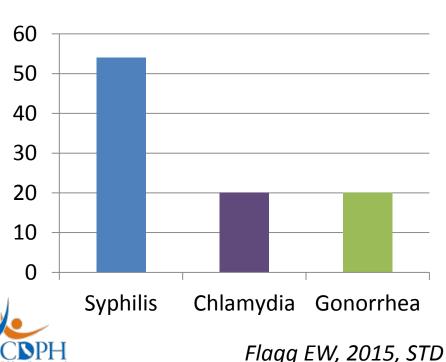
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Rev. 11/2015

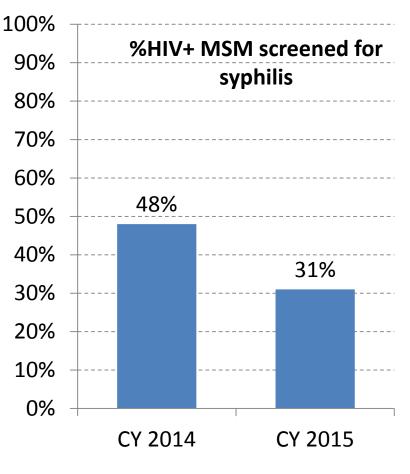
⁺ Los Angeles cases have been excluded as the data does not differentiate HIV results as being new or previous.

STD Screening Gaps among MSM in HIV Care

Medical Monitoring Project, nationally representative sample of 1,411 adults in HIV care, interviews and chart reviews:



% of sexually active HIV+ MSM screened for STIs CA data from 49 providers in 46 LHJs in 2014 (N=7006) and 70 providers in 56 LHJs in 2015 (N=13,089):



CPA POMs Data

Re-Direct Resources:

Considerations for prioritizing STD efforts:

- Severity of adverse health outcomes
- Potential for prevention
- Infectiousness, risk to the community
- Inequities, vulnerability of the people affected
- Opportunities for improving health
- Return on investment
- Stakeholder interest



IN ORDER TO SAY YES TO YOUR PRIORITIES YOU HAVE TO BE WILLING TO SAY NO TO SOMETHING ELSE. オンドロキロ

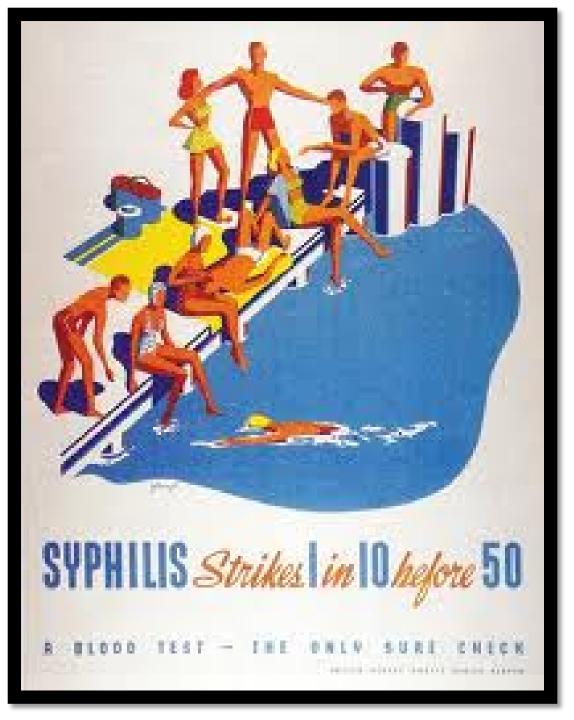
- What data are needed to assess effectiveness?
- At what point can we conclude that it's just not working?

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THANK YOU!

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