Women's Sexual Health: STI and HIV Screening

Barbara E. Wilgus, MSN, CRNP STD/HIV Prevention Training Center at Johns Hopkins



I have no disclosures!

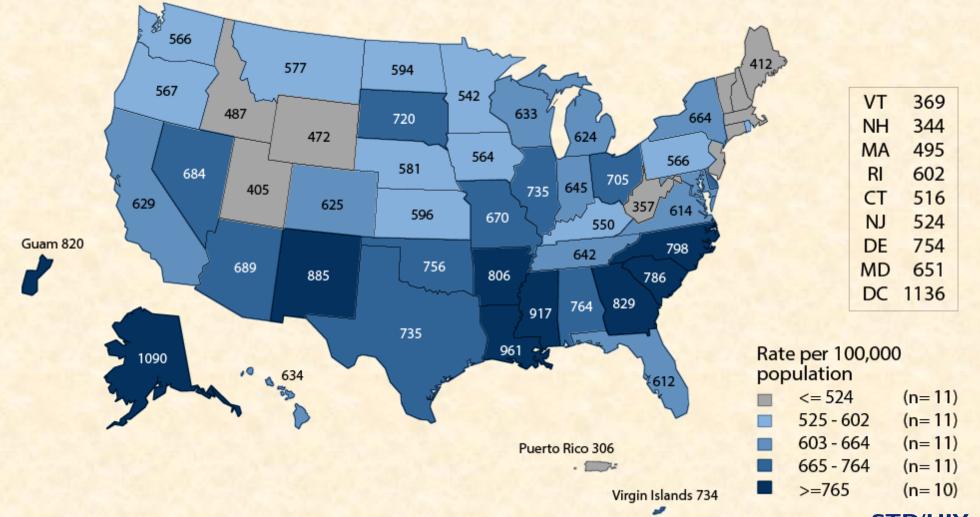
- Review most recent rates of STIs and HIV across the US
- Discuss CDC's STD Screening Guidelines for women
- Provide information about resources for creating your own sexual health protocol [even to advocate for yourself as a patient!]



STIs and HIV: What's Happening with Women?



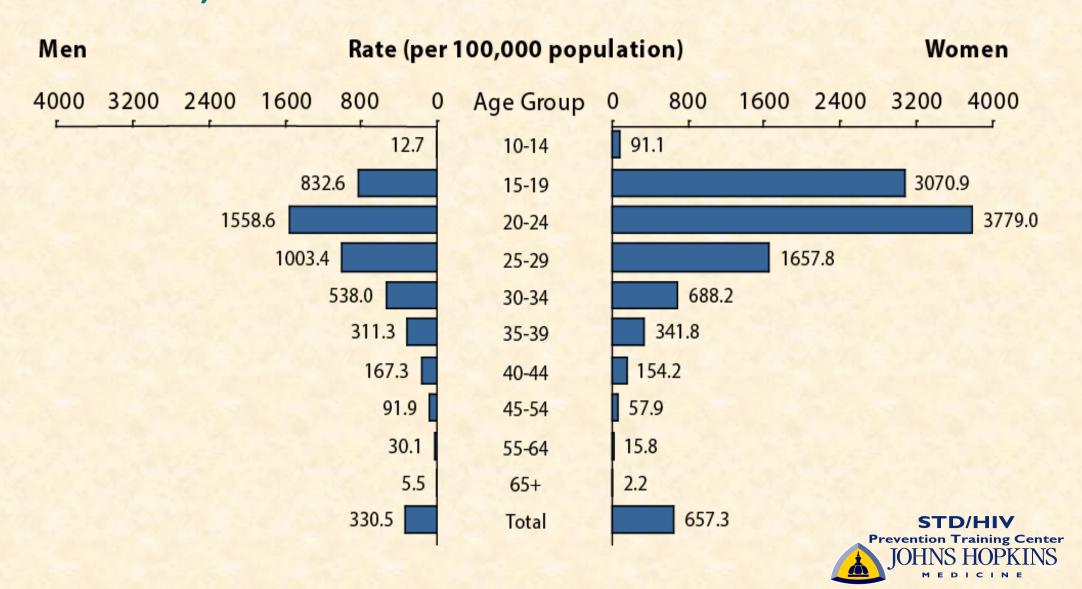
Chlamydia — Rates of Reported Cases Among Women by State, United States and Outlying Areas, 2016



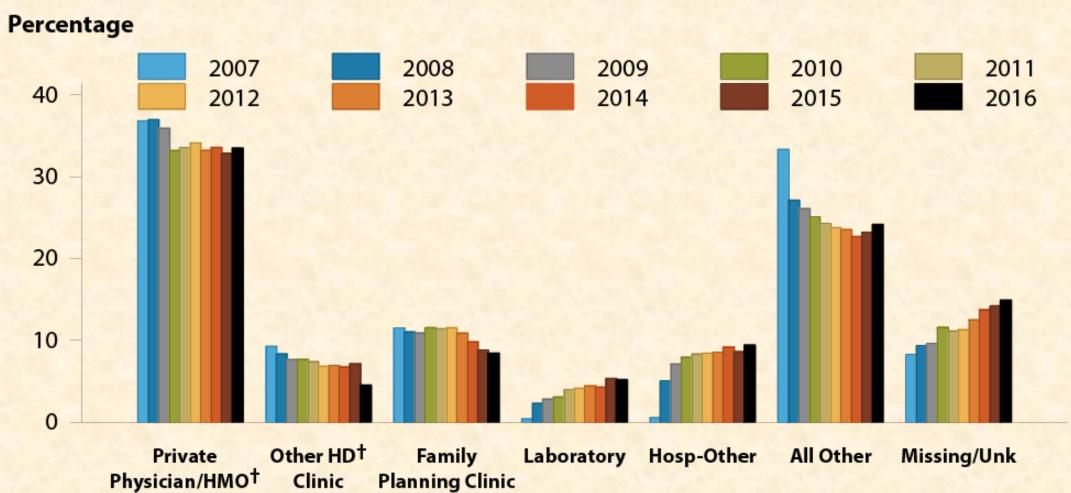
NOTE: The total rate of reported cases of chlamydia among women in the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 653.6 per 100,000 females.



Chlamydia — Rates of Reported Cases by Age Group and Sex, United States, 2016



Chlamydia — Percentage of Reported Cases Among Women by Reporting Source*, United States, 2007–2016

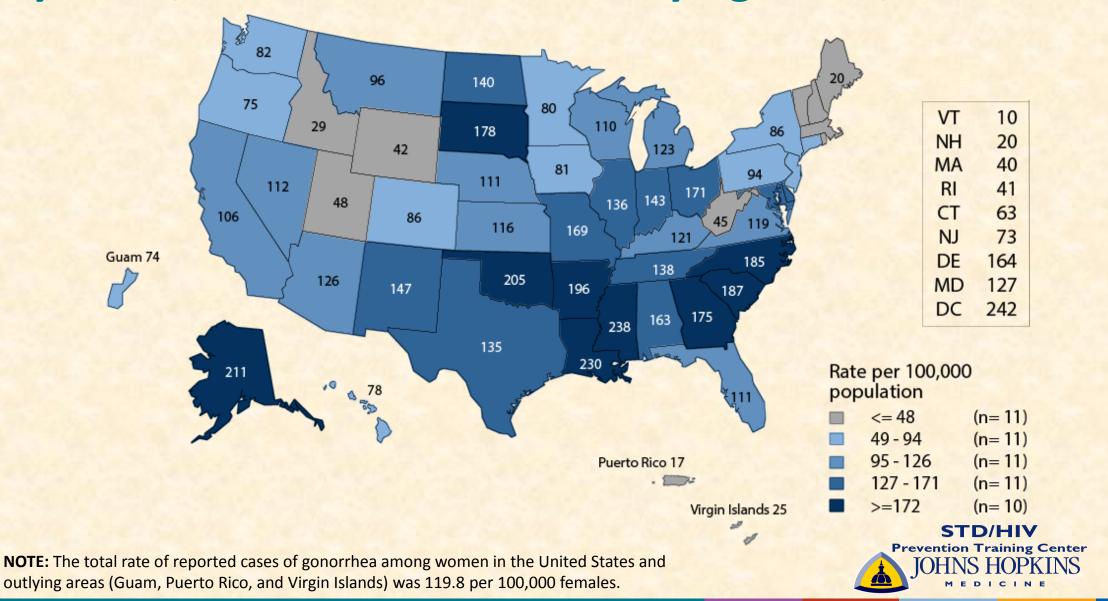


^{*} Includes the top five reporting sources for chlamydia cases reported among women, plus those with reporting sources listed as "All Other" and "Missing/Unknown".

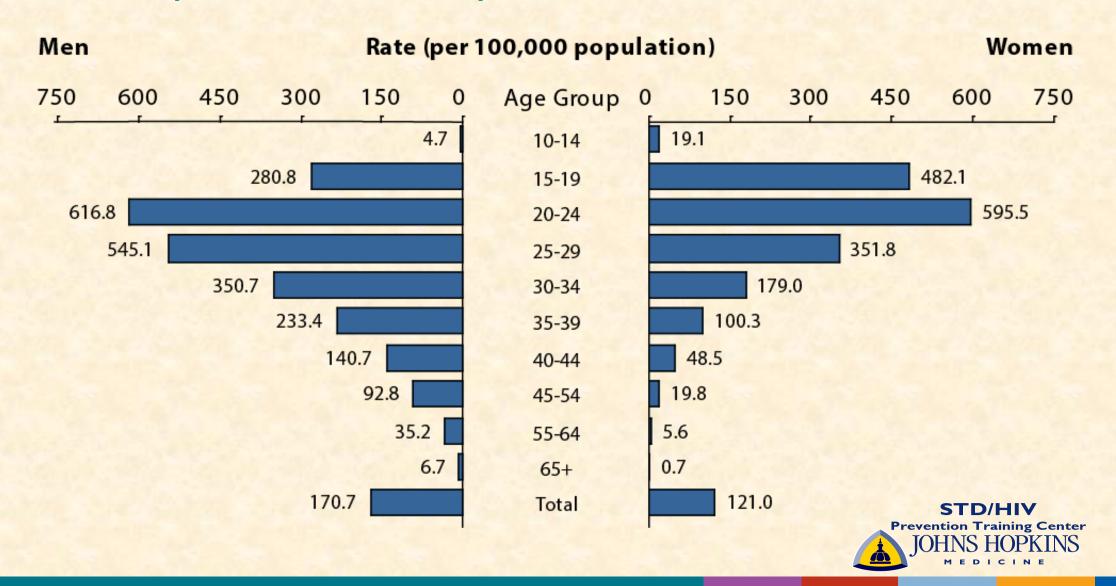
† HMO = health maintenance organization; HD = health department.

NOTE: All Other includes: Drug Treatment, Tuberculosis Clinic, Correctional Facility, Blood Bank, Labor and Delivery, Prenatal Care, National Job Training Center, School-based Clinic, Mental Health Provider, Indian Health Service, Military, Emergency Room, STD Clinic, HIV Counseling and Testing Site, and Other. N. E.

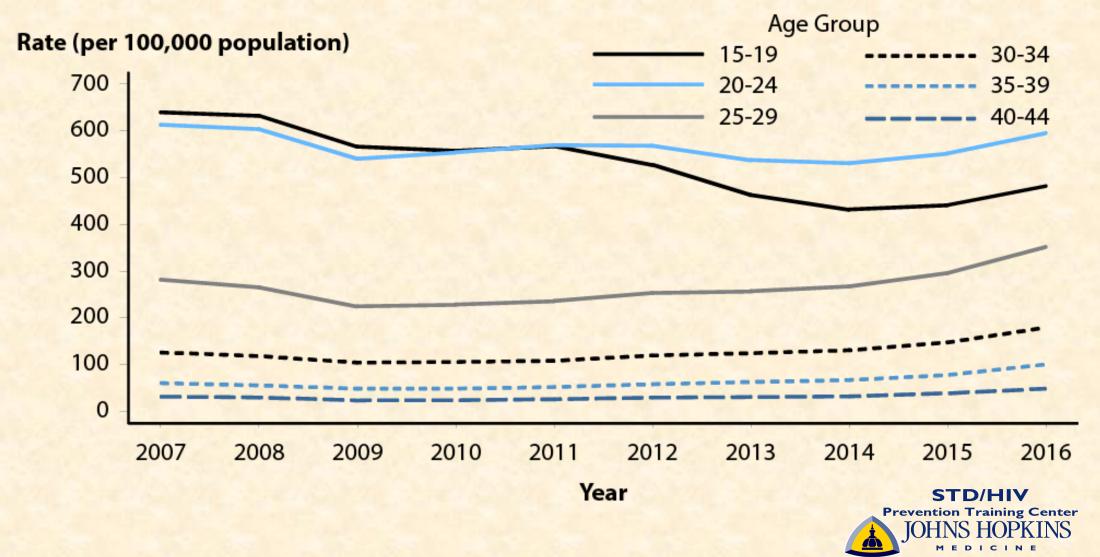
Gonorrhea — Rates of Reported Cases Among Women by State, United States and Outlying Areas, 2016



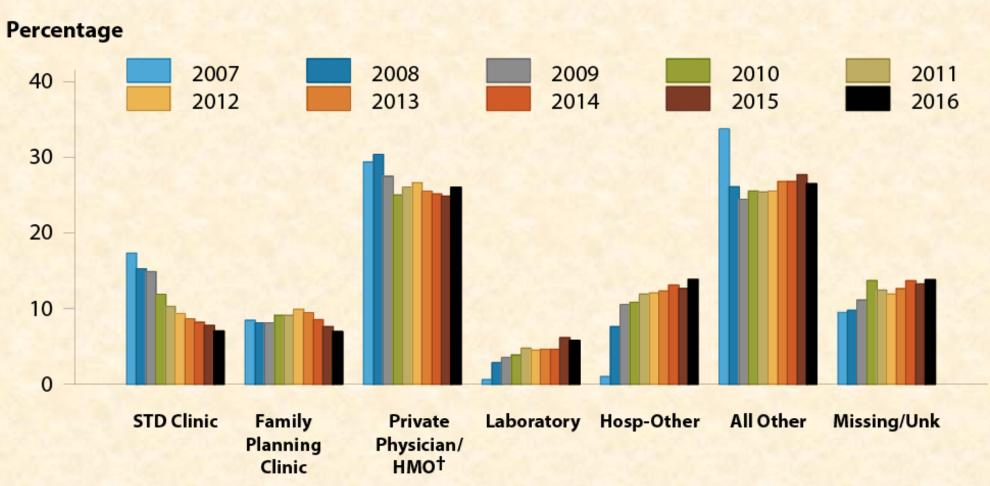
Gonorrhea — Rates of Reported Cases by Age Group and Sex, United States, 2016



Gonorrhea — Rates of Reported Cases Among Women Aged 15–44 Years by Age Group, United States, 2007–2016



Gonorrhea — Percentage of Reported Cases Among Women by Reporting Source*, United States, 2007-2016



^{*} Includes the top five reporting sources for gonorrhea cases reported among women, plus those with reporting sources listed as "All Other" and "Missing/Unknown".

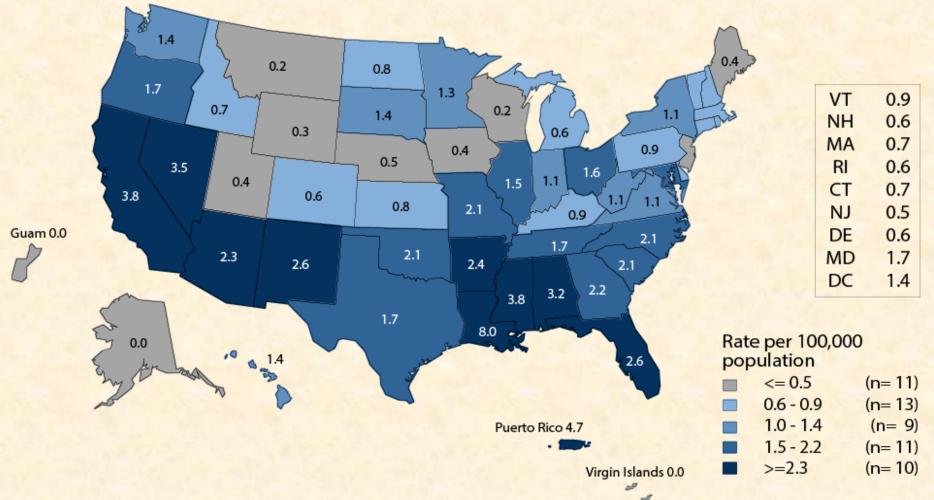
NOTE: All Other includes: Drug Treatment, Tuberculosis Clinic, Correctional Facility, Blood Bank, Labor and Delivery, Prenatal Care, National Job Training Program, School-based Clinic, Mental Health Provider, Indian Health Service, Military, Emergency Room, Other Health Department Clinic, HIV Counseling and Testing Site, and Other.



[†] HMO = health maintenance organization.

Primary and Secondary Syphilis — Rates of Reported Cases Among Women by State, United States and Outlying Areas,

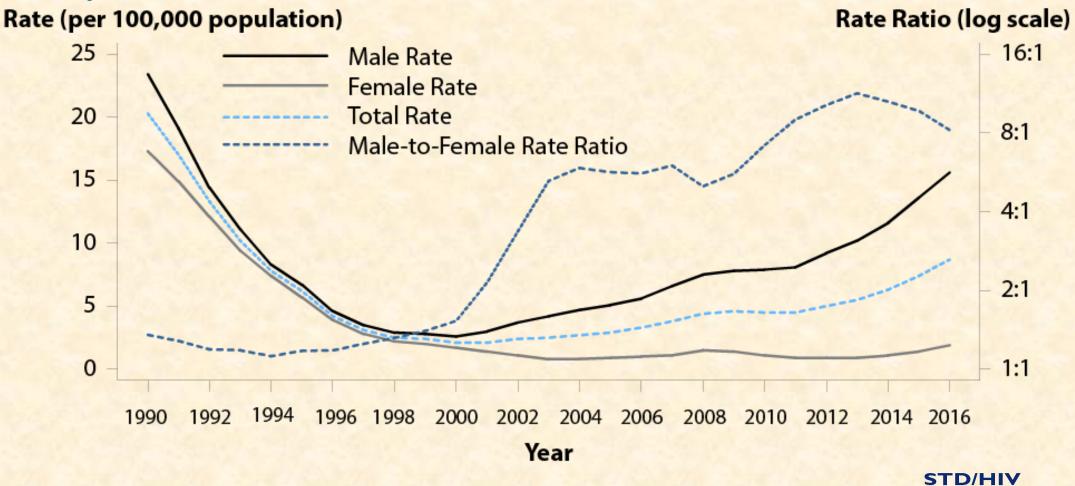
2016



NOTE: The total rate of reported cases of primary and secondary syphilis among women in the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 1.9 per 100,000 females.

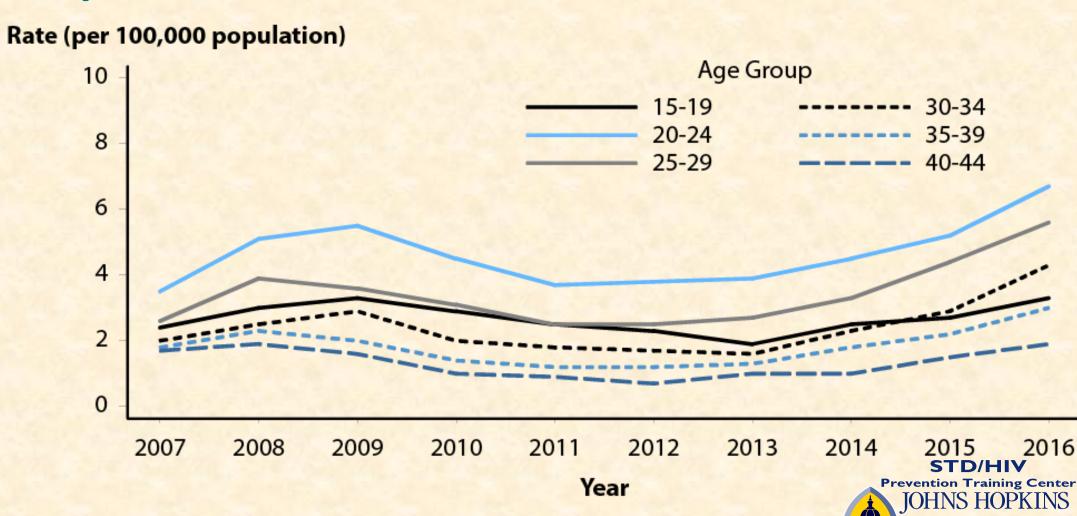


Primary and Secondary Syphilis — Rates of Reported Cases by Sex and Male-to-Female Rate Ratios, United States, 1990–2016



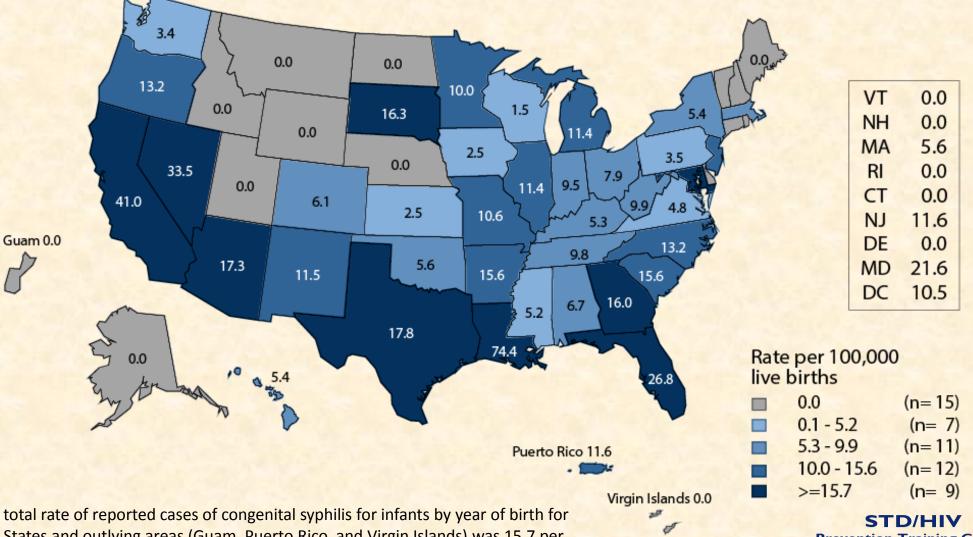
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Primary and Secondary Syphilis — Rates of Reported Cases Among Women Aged 15–44 Years by Age Group, United States, 2007–2016



Congenital Syphilis — Rates of Reported Cases Among Infants by Year of Birth and State, United States and Outlying Areas,

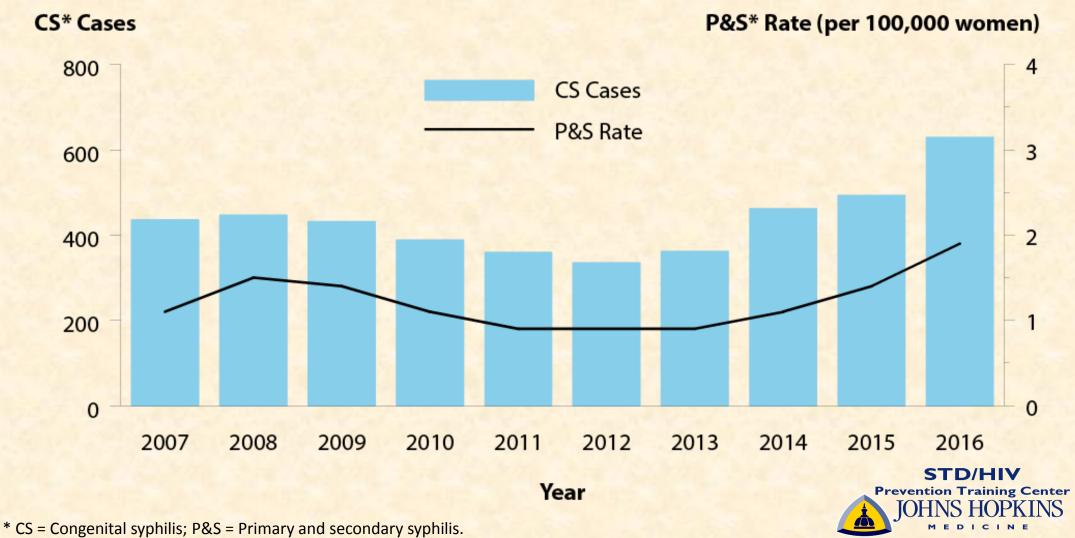




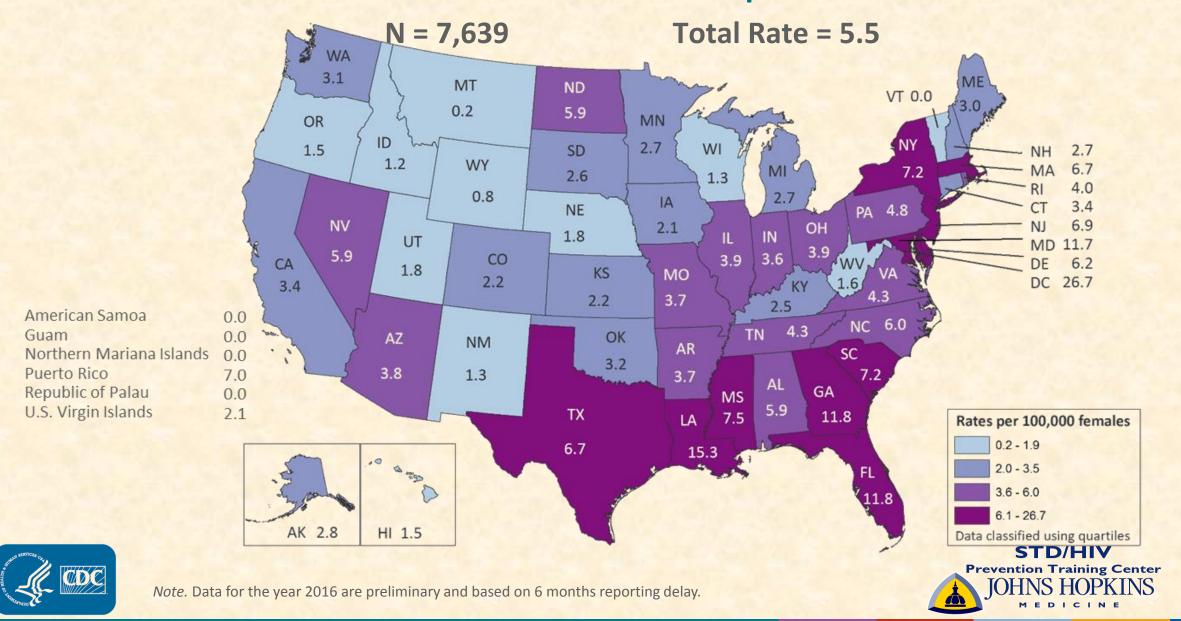
NOTE: The total rate of reported cases of congenital syphilis for infants by year of birth for the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 15.7 per 100,000 live births.



Congenital Syphilis — Reported Cases by Year of Birth and Rates of Reported Cases of Primary and Secondary Syphilis Among Women, United States, 2007–2016



Rates of Diagnoses of HIV Infection among Female Adults and Adolescents 2016—United States and 6 Dependent Areas



Diagnoses of HIV Infection among Female Adults and Adolescents by Transmission Category and Age at Diagnosis 2016—United States and 6 Dependent Areas

		Age group (years), %					
	13–19	20–24	25–34	35–44	≥45		
Transmission category	N=264	N=737	N=2,133	N=1,805	N=2,700		
Injection drug use	6.5	10.4	13.5	11.6	13.3		
Heterosexual contact ^a	84.2	88.2	86.2	88.2	86.5		
Other ^b	9.4	1.4	0.3	0.1	0.2		
Total	100	100	100	100	100		

Note. Data for the year 2016 are preliminary and based on 6 months reporting delay. Data have been statistically adjusted to account for missing transmission category.

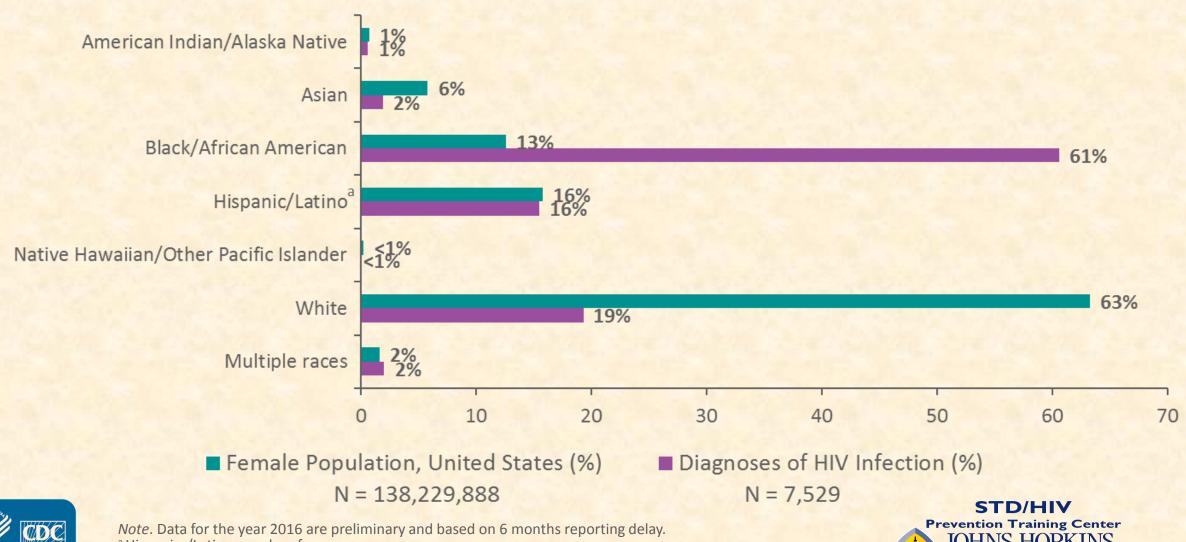
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^b Includes blood transfusion, perinatal exposure, and risk factor not reported or not identified.



^a Heterosexual contact with a person known to have, or to be at high risk for, HIV infection.

Diagnoses of HIV Infection and Population among Female Adults and Adolescents, by Race/Ethnicity, 2016—United States





^a Hispanics/Latinos can be of any race.

Deaths of Female Adults and Adolescents with Diagnosed HIV Infection by Race/Ethnicity, 2015—United States

Race/ethnicity	No.	Rate	%
American Indian/Alaska Native	17	1.7	0.4
Asian ^a	6	0.1	0.2
Black/African American	2,335	13.5	61.2
Hispanic/Latino ^b	501	2.4	13.1
Native Hawaiian/other Pacific Islander	0	0	0.0
White	724	0.8	19.0
Multiple races	233	10.6	6.1
Total	3,816	2.8	100





Creating Your Own Sexual Health Protocol



Sexual Health Protocol At-A-Glance

Environment		Comprehensive sexual history	Mental health assessment and referrals	Counseling about condoms, lubrication, enemas, and douches	Discussion about sexual satisfaction and pleasure			
		Visual exam to check for signs of HPV, syphilis, or other STDs						
LGBT-friendly		Urethral swab or urine-based chlamydia and gonorrhea screening		Rectal and pharyngeal chlamydia and gonorrhea screening				
ent Staff &	P	Syphilis screening	HIV screening	Hepatitis C screening				
lly Competent		Hepatitis A vaccine	Hepatitis B vaccine	HPV vaccine				
Culturally	B	Post-exposure prophylaxis, as indicated	Pre-exposure prophylaxis, as indicated	Expedited Partner Therapy for chlamydia or gonorrhea infection				

From MSM Sexual Health Standards of Care: Addressing the Sexual Health Crisis among Gay, Bisexual, and Other Men who have Sex with Men (MSM). NCSD, NASTAD, NNPTC. http://www.ncsddc.org/resource/msm-sexual-health-standards-of-care/



Recommended Preventive Sexual Health Services for Adults

	Females		Males			Transgender	
Service	18-64	65+	Pregnant	18-64	65+	MSM	Individuals
STI Counseling	√a	√ a	√ a	√a	√a	√ a	√a
Contraceptive Counseling	✓		✓	~	✓		✓
Cervical Cancer Screening	✓b	✓b	√b				√ c
Chlamydia Screening	√d	✓d	√d	√e		√ f	√a
Gonorrhea Screening	✓d	✓d	✓d			√g	√a
HIV Testing	✓	√ a	✓	✓	√a	✓	✓
Syphilis Screening	√h	√h	~	√h	√h	✓	✓h
Hepatitis B Screening	√ i	√ i	✓	√ i	√i	√	√i
Hepatitis C Screening	√ jk	√ jk	√j	√ jk	√ jk	√ jk	√ jk
Hepatitis A Vaccine	√ I	✓I	√ 1	√ I	✓I	✓	√ 1
Hepatitis B Vaccine	✓m	✓m	√m	✓m	✓m	√	√ m
HPV Vaccine	✓n			√ n		✓n	✓n

a = At increased risk: inconsistent condom use, multiple partners, partner with concurrent partners, current STI, or history of STI within a year

b = Aged 21 to 65 or when adequate screening history has been established

c = FTM transgender patients who still have a cervix according to guidelines for non-transgender women

d = Sexually-active women aged <25; women aged ≥25 at increased risk

e = Young adult males in high prevalence communities or settings

f = Screen for urethral infection if insertive anal sex in preceding year; rectal infection if receptive anal sex in preceding year

g= Screen for urethral infection if insertive anal sex in preceding year; rectal infection if receptive anal sex in preceding year; pharyngeal infection if receptive oral sex in preceding year

h = HIV-positive; at increased risk: exchange sex for drugs or money; in high prevalence communities

i = At risk: HIV-positive, unprotected sex, share needles, family member or sexual partner infected with HBV; born in a HBV-endemic country; born to parents from a HBV-endemic country

j = HIV-positive, history of injection or intranasal drug use or incarnation; blood transfusion prior to 1992

k = Born between 1945 and 1965 (at least once)

I = Use illicit drugs; have chronic liver disease; receive clotting factors; travel to HAV-endemic countries; wish to be vaccinated

m = At risk: multiple partners, share needles, family member or sexual partner infected with HBV

n = Young adult women and men aged ≤26

For more information, visit: nationalcoalitionforsexualhealth.org



Recommended Preventive Sexual Health Services for Adolescents

Service	Females (Aged 13-17)	Males (Aged 13-17)
STI Counseling	✓a	✓a
Contraceptive Counseling	✓	✓
Cervical Cancer Screening		
Chlamydia Screening	√b	√ c
Gonorrhea Screening	√b	✓d
HIV Testing	✓	✓
Syphilis Screening	√e	✓e
Hepatitis B Screening	√f	√ f
Hepatitis C Screening	√ g	✓g
Hepatitis A Vaccine	✓	✓
Hepatitis B Vaccine	✓	✓
HPV Vaccine	✓	✓

If the Adolescent Identifies as Lesbian, Gay, Bisexual, Transgender, Questioning (LGBTQ)

- ✓ Ask whether they have a trusted adult to talk to.
- ✓ Assess safety at home and school and whether they are being bullied or harassed.
- ✓ Link your patient to community or national organizations such as pflag.org or thetrevorproject.org for education and support.
- ✓ Counsel about using condoms and contraception. Adolescents who identify as lesbian or gay may also have sex with members of the opposite sex, which increases the risk for unintended pregnancy.
- a = All sexually-active adolescents
- **b** = Sexually-active women aged ≤24; women aged ≥25 at increased risk
- c = Consider screening young adult males in high prevalence communities or settings
- **d** = At least annually for sexually-active MSM at sites of contact
- **e** = HIV-positive; at increased risk: exchange sex for drugs or money; in high prevalence communities
- **f** = At risk: unprotected sex, had a prior STI, share needles, family member or sexual partner infected with HBV; born in a HBV-endemic country; born to parents from a HBV-endemic country
- g = At risk: past/current injection or intranasal drug use, long-term hemodialysis, born to mother with Hepatitis C, unregulated tattoo

For more information, visit: nationalcoalitionforsexualhealth.org



Sexual Health Protocol: History

- Partners
- Practices
- Protection from STIs
- Past history of STIs
- Prevention of pregnancy
- · And, a bonus "P": PLEASURE



STI Screening: Physical exam

• Visual inspection: Skin and mucous membranes [rashes, lesions, warts]

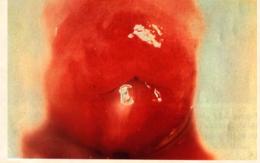
• Is discharge present? Note location [urethral, vaginal, cervical, rectal] and consistency [purulent, clear, "cottage cheese", frothy, etc]

• For ASYMPTOMATIC screening: consider "express testing" for self collection

of swabs















CDC Screening Guidelines: Chlamydia

•Sexually active women under 25 years of age¹ •Sexually active women aged 25 years and older if at increased risk² Women •Retest approximately 3 months after treatment³ •All pregnant women under 25 years of age¹ •Pregnant women, aged 25 and older if at increased risk² **Pregnant Women** •Retest during the 3rd trimester for women under 25 years of age or at risk^{3,4} •Pregnant women with chlamydial infection should have a test-of-cure 3-4 weeks after treatment and be retested within 3 months¹ Men •*Consider screening young men in high prevalence clinical settings⁵ or in populations with high burden of infection (e.g. MSM)⁶ Men Who have Sex •At least annually for sexually active MSM at sites of contact (urethra, rectum) regardless of condom use⁶ •Every 3 to 6 months if at increased risk⁷ With Men (MSM) •For sexually active individuals, screen at first HIV evaluation, and at least annually thereafter⁸

•More frequent screening for might be appropriate depending on individual risk behaviors and the local epidemiology⁸



Persons with HIV

CDC Screening Guidelines: Gonorrhea

Women

- •Sexually active women under 25 years of age¹
- •Sexually active women age 25 years and older if at increased risk⁹
- •Retest 3 months after treatment¹⁰

Pregnant Women

- •All pregnant women under 25 years of age and older women if at increased risk¹¹
- •Retest 3 months after treatment¹⁰

Men Who have Sex •At least annually for sexually active MSM at sites of contact (urethra, rectum, pharynx) regardless of condom use 10 With Men (MSM) •Every 3 to 6 months if at increased risk 7

Persons with HIV

- •For sexually active individuals, screen at first HIV evaluation, and at least annually thereafter¹⁰
- •More frequent screening for might be appropriate depending on individual risk behaviors and the local epidemiology 10



Why do extragenital testing (GC and CT)?

- From July 2003 until February 2007, 441 rectal test sets were collected from individuals attending a sexually transmitted disease clinic and three HIV clinics who gave a history of anal intercourse or were women at high risk for *Neisseria gonorrhoeae* or *Chlamydia trachomatis* infections.
 - Over 60% and 80% of gonococcal and chlamydial infections, respectively, among men who have sex with men and over 20% of chlamydial infections in women would have been missed if the rectal site had not been tested.*
- Baltimore STD clinics: among women endorsing extragenital exposures, 30.3% of GC infections and 13.8% of CT infections would have been missed with urogenital-only testing.**



CDC Screening Guidelines: Syphilis

Pregnant Women

- •All pregnant women at the first prenatal visit¹¹
- •Retest early in the third trimester and at delivery if at high risk¹²

Men Who have Sex •At least annually for sexually active MSM¹³ With Men (MSM) •Every 3 to 6 months if at increased risk⁷

Persons with HIV

- •For sexually active individuals, screen at first HIV evaluation, and at least annually thereafter 14,15,16
- •More frequent screening might be appropriate depending on individual risk behaviors and the local epidemiology ¹³

Centers for Disease Control and Prevention, 2015 STD Treatment Guidelines



CDC Screening Guidelines: HIV

Women

- •All women aged 13-64 years (opt-out)**18
- •All women who seek evaluation and treatment for STDs¹⁹

Pregnant Women

- •All pregnant women should be screened at first prenatal visit (opt-out)²⁰
- •Retest in the third trimester if at high risk²¹

Men

- •All men aged 13-64 (opt-out)**18
- •All men who seek evaluation and treatment for STDs¹⁹

Men Who have Sex •At least annually for sexually active MSM if HIV status is unknown or negative and the patient himself or his sex partner(s) With Men (MSM) have had more than one sex partner since most recent HIV test²²



CDC guidelines: STIs and PrEP

•	Men Who Have Sex with Men	Heterosexual Women and Men	Injection Drug Users		
Detecting substantial risk of acquiring HIV infection	HIV-positive sexual partner Recent bacterial STI High number of sex partners History of inconsistent or no condom use Commercial sex work	HIV-positive sexual partner Recent bacterial STI High number of sex partners History of inconsistent or no condom use Commercial sex work In high-prevalence area or network	HIV-positive injecting partner Sharing injection equipment Recent drug treatment (but currently injecting)		
Clinically eligible	Documented negative HIV test result before prescribing PrEP No signs/symptoms of acute HIV infection Normal renal function; no contraindicated medications Documented hepatitis B virus infection and vaccination status				
Prescription	Daily, continuing, oral doses of TDF/FTC (Truvada), ≤90-day supply				
Other services	Follow-up visits at least every 3 months to provide the following: HIV test, medication adherence counseling, behavioral risk reduction support, side effect assessment, STI symptom assessment At 3 months and every 6 months thereafter, assess renal function Every 6 months, test for bacterial STIs				
	Access to clean needles/syringes and drug treatment services				

- Assess for STIs at baseline!
 http://www.cdc.gov/hiv/pdf/PrEP_fact_sheet_final.pdf
- CDC guidelines: screen MSM for STIs every 3-6 mos if at increased risk.
- "Bacterial STDs"= Gonorrhea, Chlamydia and Syphilis



In Summary:

- Rates of STIs are at an all time high, INCLUDING FOR WOMEN
- Rates of HIV in women, particularly women of color, should not be discounted
- Advocate for, and implement, a sexual health protocol that includes comprehensive history, screening, treatment, and prevention



Thank you!

Barbara Wilgus, MSN, CRNP 410-550-6251 bwegwei1@jhmi.edu

