

The National STD Curriculum Official Launch Webinar

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January 25, 2018



Gail Bolan, MD Director, Division of STD Prevention Centers for Disease Control and Prevention

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Centers for Disease Control and Prevention

Resources

Full STD Guidelines



Chlamydia

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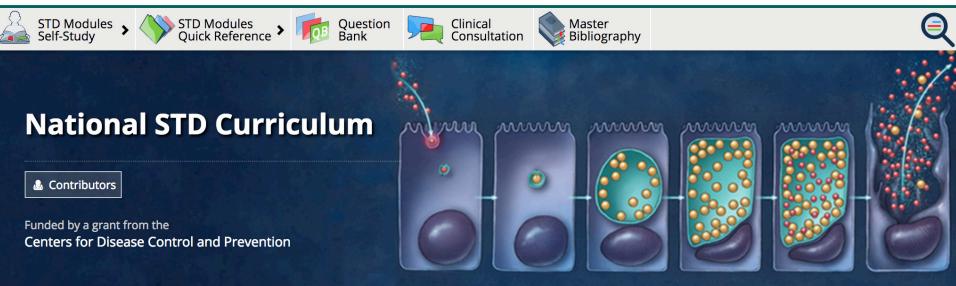


National STD Curriculum

David H. Spach, MD Professor of Medicine Division of Infectious Diseases University of Washington

January 25, 2018





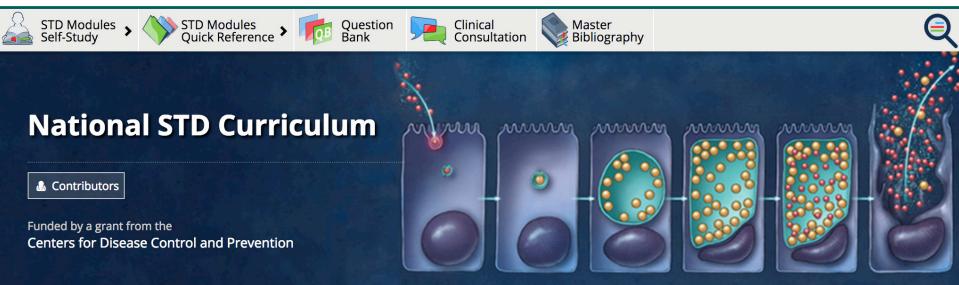
Objectives

- Provide an overview of the National STD Curriculum web site
- How to optimize use of the curriculum
- Explain administration functions (register, track progress, CE)
- Summarize "1 Year" site data
- Describe future activities on site



→ Sign In





This project is funded by a grant from the Centers for Disease Control and Prevention



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National STD Curriculum: Acknowledgments

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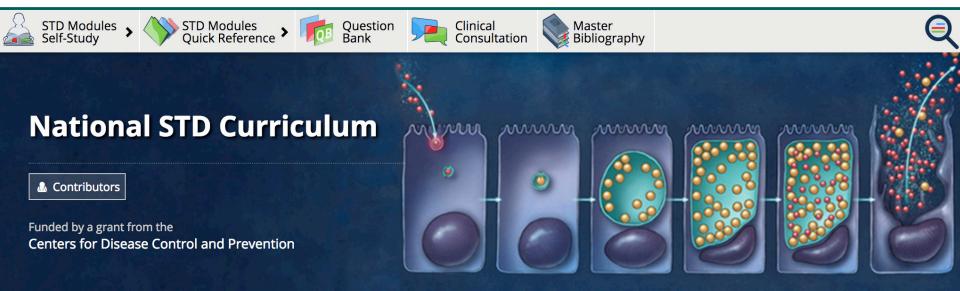


NATIONAL STD CURRICULUM

Site Overview



🎇 National STD Curriculum



To access the National STD Curriculum go to: WWW.Std.uw.edu



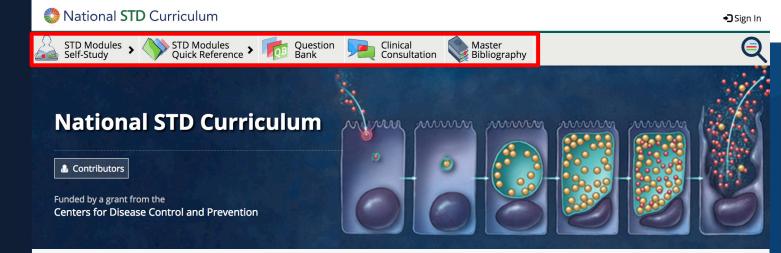
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National STD Curriculum: Features

- Interactive self-paced on-line learning and assessment tool
- Free CNE and CME credits
- Expert, up-to-date content consistent with CDC guidelines
- Free module-by-module certificate program
- Group functionality

Intended audience: Medical Professionals



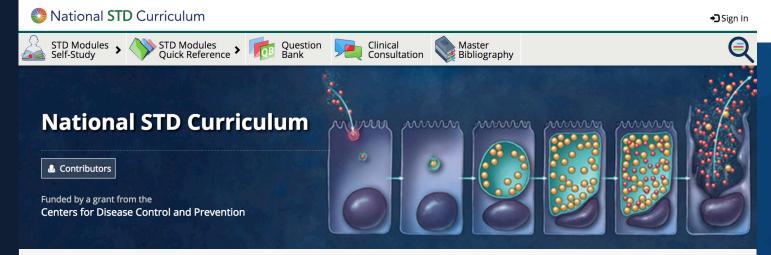


	Chlamydia	Chlamydia Self-Study CNE/CME Track progress and receive CE credit	Quick Reference > Rapidly access info about Chlamydia	Question Bank CNE/CME Interactive board-review style questions with CE credit
	Gonorrhea	Gonorrhea Self-Study CNE/CME Track progress and receive CE credit	Quick Reference > Rapidly access info about Gonorrhea	Question Bank CNE/CME Interactive board-review style questions with CE credit
	HSV Herpes Simplex Virus (HSV)	HSV Self-Study CNE/CME Track progress and receive CE credit	Quick Reference > Rapidly access info about HSV	Question Bank CNE/CME Interactive board-review style questions with CE credit
	HPV Human Papillomavirus (HPV)	HPV Self-Study CNE/CME Track progress and receive CE credit	Quick Reference > Rapidly access info about HPV	
1	PID Pelvic Inflammatory Disease (PID)	PID Self-Study CNE/CME Track progress and receive CE credit	Quick Reference > Rapidly access info about PID	
	Syphilis	Syphilis Self-Study CNE/CME Track progress and receive CE credit	Quick Reference > Rapidly access info about Syphilis	
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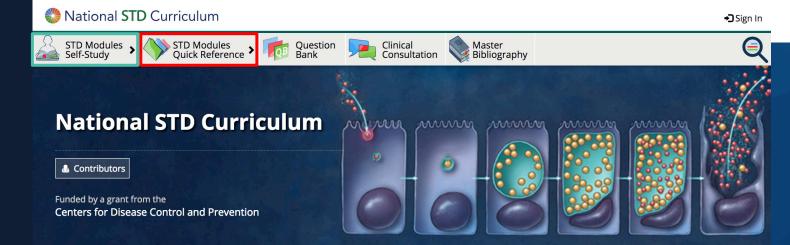
Site Overview





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STD Modules: Dual Functionality

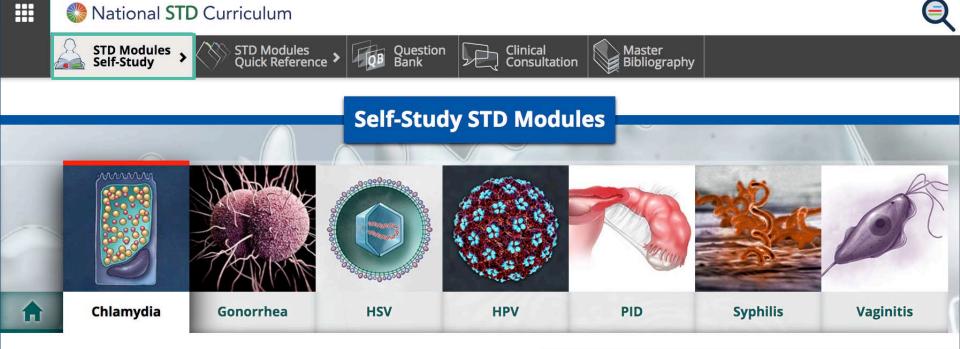
Self-Study

- Sequential (Step-by-Step)
- Flexible modular options
- Certificate program
- Ideal for training programs

Quick Reference

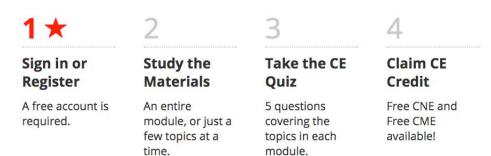
- Highly organized interface
- Quick search
- On demand topics
- Ideal for staying updated





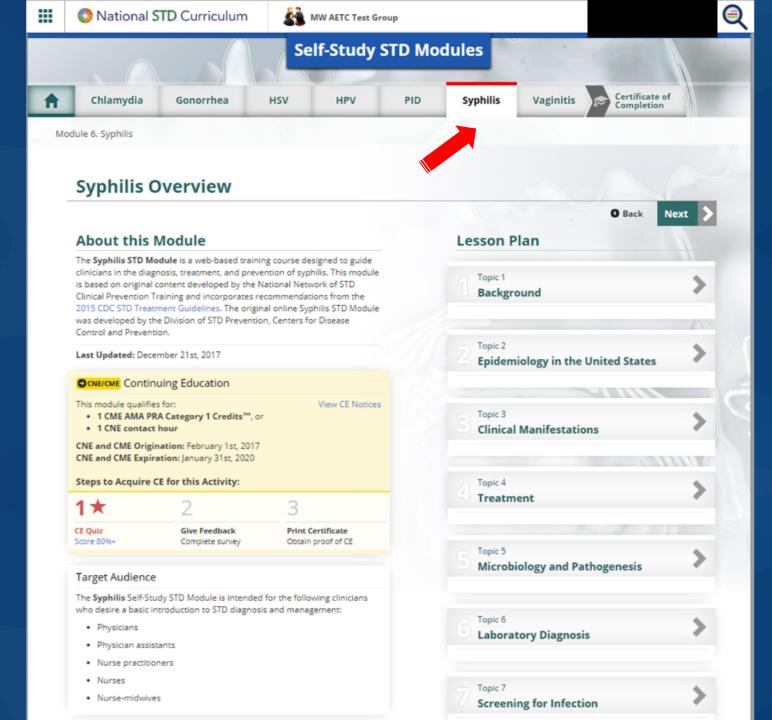
Self-Study STD Modules for Clinicians

You are just a few steps away from free CE credits!

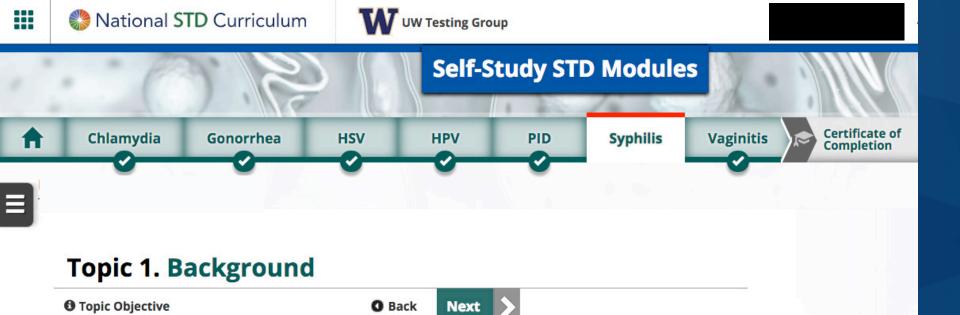


New Users	Returning Users	National STD Curriculu
Create a free account to get started.	Email Address	
Required for CE	Password	
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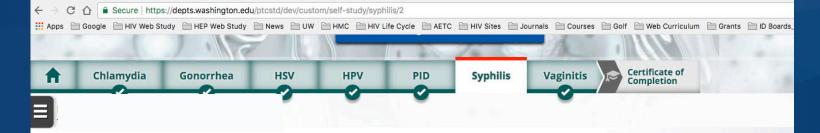
BACKGROUND

Syphilis is a systemic infection caused by *Treponema pallidum*, a spirochete bacterium that is transmitted primarily through sexual activity. In the absence of treatment, patients who acquire *T. pallidum* remain chronically infected and syphilis generally progresses in stages, characterized by episodes of active clinical manifestations interrupted by periods of latent infection. Chronic disease can result in significant morbidity, potentially affecting nearly every organ system, and rarely, can result in death. In addition, untreated syphilis in pregnant women can lead to fetal demise and devastating congenital infection for neonates born to an infected mother.

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Topic 2. Epidemiology in the United States

O Topic Objective

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EPIDEMIOLOGY IN THE UNITED STATES

INCIDENCE TRENDS IN THE UNITED STATES

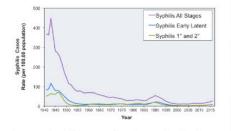
In the United States, the reporting of syphilis incidence is usually represented in terms of primary and secondary syphilis.^[1] Reported cases of primary and secondary syphilis (P & S syphilis) represent the incidence of syphilis more accurately than reported cases of latent infection, particularly late latent syphilis, which signifies infection acquired more than a year before syphilis is diagnosed. In the past 76 years, in the United States, the syphilis epidemic has undergone major fluctuations (Figure 1).^[1] During the 1920s and 1930s, syphilis rates were very high, but declined rapidly in the late 1940s with the introduction of penicillin.^[1,2] The number of reported cases rose between 1986 and 1990, but by the late 1990s, syphilis rates in the United States had declined to a point where public health authorities declared syphilis elimination a feasible goal and in 1999 the CDC developed a national plan to eliminate syphilis in the United States.^[3] In 2000, the reported rate of syphilis in the United States reached an all-time low, but unfortunately, cases of syphilis have increased since 2001 (Figure 2), primarily due to an increase among men who have sex with men (MSM), including those coinfected with HIV.^[1] In 2016, a total of 27,814 cases of primary and secondary syphilis were reported, which corresponds to a rate of 8.7 cases per 100,000 population; the total number cases of primary and secondary syphilis in 2016 represent a 16.5% increase from 2015, a 102% increase from 2010, and the highest reported number of cases since 1994.^[1]

EPIDEMIOLOGY BASED ON SPECIFIC DEMOGRAPHICS

The following summarizes syphilis epidemiology in the United States based on demographics per the 2016 CDC STD Surveillance report.^[1]

Geographic Distribution

In the United States, from 2012 to 2016, the rates of primary and secondary





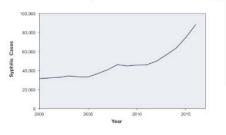


Figure 2. Syphilis Cases, All Stages of Infection, United States, 2000-2016



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Based on National Health and Nutrition Examination Surveys (NHANES), chlamydia prevalence in the U.S. is estimated to be 1.5% (⁴¹ Chlamydia prevalence is highest among adolescents and young adults, as well as among racial and ethnic minorities. Test positivity is often used as a proxy of chlamydia prevalence in a population. During 2007 to 2012, chlamydia test positivity among males and females aged 14 to 39 years was 1.7% (¹¹ Among sexually active females aged 14 to 24 years (the population targeted for routine screening), chlamydia prevalence was 4.7%; black females had, by far, the highest prevalence (Figure 7).^[1]

RISK FACTORS

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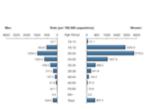
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Question

Risk factors associated with acquisition of chlamydial infection include new or multiple sex partners, a history of STIs, presence of another STI, and lack of barrier contraception.^[5] The presence of columnar epithelial cells on the ectocervix, referred to as ectopy, is a condition that may increase susceptibility to chlamydial infection; oral contraceptive use contributes to ectopy.^[6] Adolescents and young adults are at increased risk for chlamydial infection for a combination of biological, behavioral, and cultural reasons, including difficulty accessing preventive health care services for STIs.



ure 2. Chlamydia—Rate, by Sex, 2000-2016

Figure 3. Chlamydia—Rates of Reported Cases by Age Group and Sex, U.S. 2016

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Based on United States STD surveillance data, which age group has the highest rates of infection with Chlamydia trachomatis?

Males aged 15-24 years
 Males aged 30-39 years
 Females aged 15-24 years
 Females aged 30-39 years

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STD Modules Quick Reference >

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Based on United States STD surveillance data, which age group has the highest rates of infection with Chlomydia trachomatis?

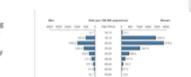
Learning You chose this option correctly:

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Females aged 15-24 years

Females 15-24 years of age are the age group with the highest rates of C. trachomotis infection. The high rates in this age group, in combination with the significant potential for long-term complications in women from unidentified C. trachomotis infection, underlies the USPSTF and CDC recommendation to perform routine screening in all sexually active women younger than 25 years of age.



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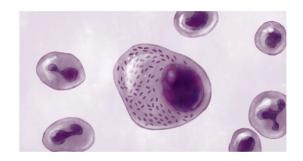
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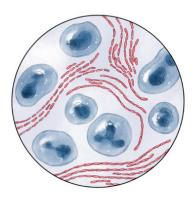
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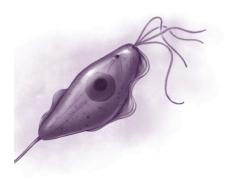


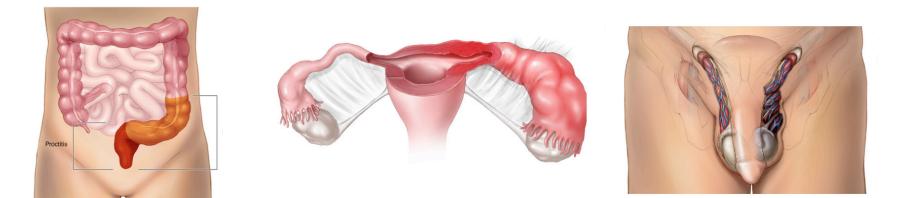


Sample Illustrations on Web Site











Illustrations by Jared Travnicek and David Ehlert, Cognition Studio

Primary Genital Infection

Primary infection is defined as the first infection with either HSV-1 or HSV-2 with absence of antibody to either HSV type. Primary genital infection is often symptomatic, but patients may have unrecognized or subclinical infection. With symptomatic infection, clinical manifestations of primary infection typically resolve within 3 weeks in the absence of antiviral therapy. Serum antibodies appear with 12 weeks of the primary infection in most persons.^[54] The following reproduct may occur with primary HSV-2 genital infection:

- Severe multiple bilateral genital ulcers, pain, itching, ysuria, vaginal or urethral discharge, and tender inguinal adenopathy (Figure 7 Graphic Image).
- Without antiviral therapy, lesions last 2 to 3 weeks, with evolution of the lesions from vesicle pustule to wet ulcers to dry crusts (Figure 8).^[55]
- The median duration of viral shedding is about 10 to 12 days, and correlates with the time from the onset of vesicles to crusting of lesions.^[56]
- Systemic symptoms (fever, myalgias, headaches, aseptic meningitis or symptoms of autonomic nervous system dysfunction such as urinary retention) peak within 3 to 5 days of onset of lesions and gradually recede over the next 3 to 4 days.^[57]
- In women, HSV shedding from the cervix occurs in 80 to 90% of primary HSV-1 and HSV-2 infections.^[52] Cervicitis may involve the ectocervix or endocervix, with or without clinical symptoms. In most cases, the cervix appears abnormal to inspection with ulcerative lesions, erythema, or friability.
- Herpes proctitis typically manifests with fever, pain, discharge, tenesmus, and constipation; some patients will have severe anal ulcerations visible on anoscopy; some patients develop symptoms of autonomic dysfunction, including difficulty urinating.^[58] Rarely, herpes proctitis may present as a pseudotumor that mimics epidermoid carcinoma.^[59]
- Infection of the urethritis and/or meatus may cause a clear mucoid discharge.^[60]

Nonprimary Infection

The term nonprimary HSV infection most often refers to infection with HSV-1 or HSV-2 in an individual with pre-existing antibodies to the other virus. For example, a person may acquire oral HSV-1 infection as a child and later acquire genital HSV-2 as an adult. Manifestations of nonprimary infection tend to be milder than those of primary infection, presumably due to cross-immunity protection from prior infection with the other HSV type.^[61,62] Less often, in a different scenario, nonprimary infection can

Graphic Image



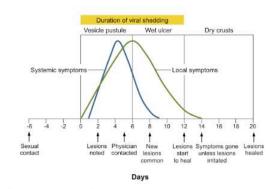


Figure 8. Clinical and Virologic Course of Genital HSV in Primary Infection





C STD Modules Self-Study



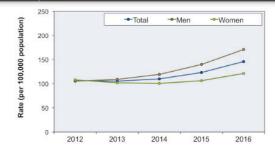
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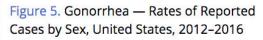
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data demonstrate that more widespread resistance has emerged with some antimicrobials and might develop in the near future with others, thus highlighting the need for ongoing surveillance. The GISP tracks primary antimicrobial drugs used to treat gonorrhea in the United States and *N. gonorrhoeae* susceptibility to 7 antimicrobials: ceftriaxone, cefixime, azithromycin, spectinomycin, ciprofloxacin, pericilin, and tetracycline (Figure 8).^[1,3] These specific drugs are tested because they either Rocephin ntly or were previously used for gonorrhea treatment.

- **Ceftriaxone**: During 2006–2016, the percentage of isolates with reduced ceftriaxone supreptibility (defined as MIC \geq 0.125 µg/mL) fluctuated between 0.05% and 0.4%.^[1] In 2016, the percentage of isolates with reduced susceptibility to ceftriaxone (MICs \geq 0.125 µg/mL) was approximately 0.3%. In the GISP program, five isolates have been reported with a ceftriaxone MIC of 0.5 µg/mL.^[1]
- **Cefixime**: The proportion of *N. gonorrhoeae* isolates in the United States with elevated cefixime minimum inhibitory concentrations (\geq 0.25 µg/mL) increased from 2009 to 2011, fell in 2012 and 2013, increased in 2014, and decreased in 2015 and 2016.^[1] In 2016, the percentage of elevated cefixime MICs (\geq 0.25 µg/mL) was approximately 0.3%, which is a significant decline from the peak of 1.4% in 2010 and 2011.^[1]
- **Azithromycin**: Gonococcal azithromycin resistance has been tracked since 1992. From 2012–2016, the percentage of isolates with reduced azithromycin susceptibility (MICs $\geq 2 \ \mu g/mL$) ranged from 0.02% to 3.6%; between 2014 and 2016, the percentage increased from 2.4% to 3.6%.^[1]

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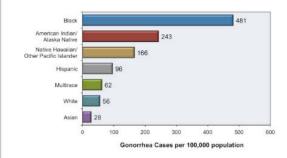


Figure 6. Gonorrhea — Rates of Reported Cases by Race/Ethnicity, 2016

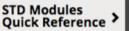


🎇 National STD Curriculum

STD Modules >	STD Modules Quick Reference V Reference Question		Clinical Consultation Sibliography	
	For quick access viewing of content in Self-S	tudy	Chlamydia Quick Reference	
Nationa	Chlamydia	*	TOPICS 1. Epidemiology in the Unite	d States
A Contributors	Gonorrhea	*	2. Microbiology and Pathoge	enesis
Funded by a grant fro Centers for Diseas	Herpes Simplex Virus (HSV)	>	 Clinical Manifestations Laboratory Diagnosis 	
	Human Papillomavirus (HPV)	>	5. Screening for Chlamydial	Infection
	Pelvic Inflammatory Disease (PID)	>	 6. Treatment 7. Patient Counseling and Economic 	ducation
STD Modu	Syphilis	>	8. Summary Points	
Chl	Vaginitis	>	CNE/CME Chlamydia Self-Stud	y Module w style it
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Chlamydia

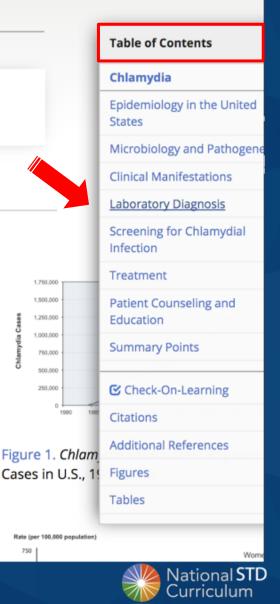
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Last Updated: December 20th, 2017 Authors: Andrew W. Hahn, MD, William M. Geisler, MD, MPH Reviewers: Kimberly A. Workowski, MD, Margaret R. Hammerschlag, MD

EPIDEMIOLOGY IN THE UNITED STATES

INCIDENCE

Chlamydia is the most common reportable bacterial sexually transmitted infection (STI) in the United States, with 1,598,354 cases reported in 2016.^[1] Since many persons with chlamydial infection may have minimal or no symptoms, the actual number of annual infections is significantly higher than the reported cases.^[2] The number of reported chlamydia cases have significantly increased since the early years of reporting that began in the 1980's (Figure 1),^[1] which may reflect an increase in the number of true infections, enhanced screening with more sensitive diagnostic tests, or a combination of both. Chlamydial rates of reported cases have consistently been higher in women than in men (Figure 2), with the highest rates (reported cases per 100,000 population) among females 15 to 24 years of age (Figure 3).^[3] In the United States, racial and ethnic minorities are disproportionately affected by chlamydia, particularly blacks (Figure 4).^[1] Factors contributing to these inequities may include differential access to quality health care, social and economic conditions, higher prevalence of disease in sexual networks, and differences in immunogenetic determinants that influence the immune response to chlamydia. The South has consistently had the highest rate of reported chlamydia cases, although the difference





STD Modules Quick Reference >

> Question



Master Bibliography

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LABORATORY DIAGNOSIS

STD Modules

Self-Study

The selection of a laboratory test to detect the presence of *C. trachomatis* is a critical component of disease management and prevention.^[36] The testing technology has shifted from culture-based methods to molecular-based techniques and this represents a substantial improvement in test sensitivity and ease of specimen collection.

NUCLEIC ACID AMPLIFICATION TESTS (NAATS)

Nucleic acid amplification tests (NAATs) amplify nucleic acid sequences (either DNA or RNA) that are specific for the organism being detected. Similar to other nonculture tests, NAATs can detect live or non-viable organisms. *C. trachomatis* NAATs are FDA-cleared for use on urine specimens from men and women, urethral swabs in men, and endocervical swabs in women; some tests are cleared for vaginal swabs.^[2] The use of *C. trachomatis* NAAT for pharyngeal and rectal specimens is not FDA approved; however, laboratories can perform certain validation procedures, such as Clinical Laboratory Improvement Amendment (CLIA)-defined performance specifications, to enable them to test specimens for clinical purposes. In men, NAATs are the most sensitive and recommended test for detecting *C. trachomatis* from a urethral swab or first-catch urine specimen.^[2] For chlamydia screening in women, vaginal swabs are preferred over urine samples and several studies have shown that self-collected vaginal swabs are preferred by women and perform equal to or better than clinician-collected vaginal swabs.^[40,41,42,43,44] In addition, in men and women, self-collected rectal swabs for NAAT have also performed well.^[45] There is currently insufficient evidence to support the use of self-collected oropharyngeal or penile meatal swabs for the diagnosis of chlamydia.^[2] Multiple NAATs are commercially available for the detection of *C. trachomatis*.

NON-AMPLIFICATION MOLECULAR TESTS

Molecular tests that do not use nucleic acid amplification encompass a variety of antigen detection and nucleic acid hybridization methods. These include enzyme-immunoassays (EIA), direct fluorescent antibody tests (DFA), and nucleic acid hybridization tests, a distinct non-NAAT methodology that detects *C. trachomatis*-specific DNA or RNA sequences in rRNA, genomic DNA, or plasmid DNA. All have significantly

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Reporting Requirements				

Screening for Chlamydial Infection

Treatment

Patient Counseling and Education

Summary Points

Check-On-Learning

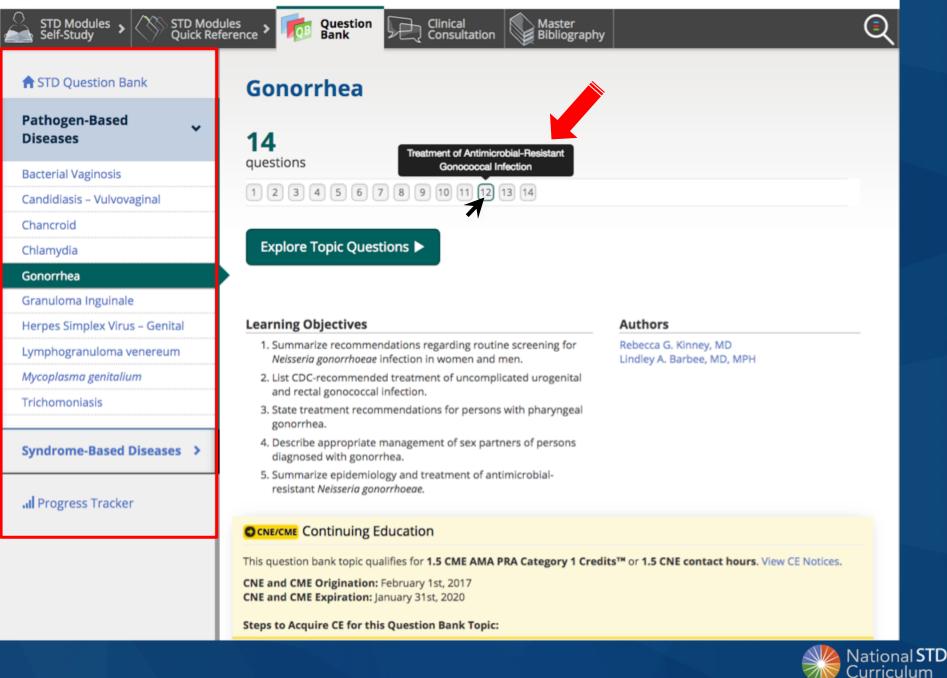


Site Overview

Question Bank



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STD Modules Self-Study

Pathogen-Based Diseases

- **Bacterial Vaginosis**
- Candidiasis Vulvovaginal
- Chancroid
- Chlamydia
- Gonorrhea
- Granuloma Inguinale
- Herpes Simplex Virus Genital
- Lymphogranuloma venereum
- Mycoplasma genitalium
- Trichomoniasis
- Syndrome-Based Diseases >
- II Progress Tracker

Gonorrhea

Question Bank

STD Modules Quick Reference

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Clinical Consultation

A 21-year-old male patient comes in for a return visit to the STD clinic with urethral discomfort and purulent discharge. Five days prior he was diagnosed with urethral gonorrhea and was treated with recommended therapy. He states his symptoms have not improved and he has not had any type of sexual contact with anyone since receiving treatment for gonorrhea. A diagnosis of antimicrobial-resistant *Neisseria gonorrhoeae* infection is suspected and a urethral swab for culture is obtained.

Master Bibliography

Which one of the following is the best choice for treating gonorrhea when there is a high suspicion for antimicrobial-resistant *Neisseria gonorrhoeae* infection?

- "High-dose" therapy with ceftriaxone 1 g intramuscular as a single dose plus azithromycin 2 g orally as a single dose
- Moxifloxacin 400 mg orally once daily for 3 days plus doxycycline 100 mg orally twice daily for 7 days
- Gentamicin 240 mg intramuscularly as a single dose plus azithromycin 2 g orally as a single dose
- Clindamycin 600 mg three times daily for 7 days plus atovaquone 1500 mg twice daily for 7 days

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STD Modules Self-Study

Pathogen-Based Diseases

Bacterial Vaginosis

Candidiasis – Vulvovaginal

Chancroid

Chlamydia

Gonorrhea

Granuloma Inguinale

Herpes Simplex Virus – Genital

Lymphogranuloma venereum

Mycoplasma genitalium

Trichomoniasis

Syndrome-Based Diseases >

II Progress Tracker

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Clinical Consultation

Question Bank

Gonorrhea

A 21-year-old male patient comes in for a return visit to the STD clinic with urethral discomfort and purulent discharge. Five days prior he was diagnosed with urethral gonorrhea and was treated with recommended therapy. He states his symptoms have not improved and he has not had any type of sexual contact with anyone since receiving treatment for gonorrhea. A diagnosis of antimicrobial-resistant *Neisseria gonorrhoeae* infection is suspected and a urethral swab for culture is obtained.

Master Bibliography

Which one of the following is the best choice for treating gonorrhea when there is a high suspicion for antimicrobial-resistant *Neisseria gonoschoeae* infection?

You chose this option correctly:

Gentamicin 240 mg intramuscularly as a single dose plus azithromycin 2 g orally as a single dose

Summary

Evolving drug resistance, particularly to the cephalosporin class, is a significant threat to the treatment of *Neisseria gonorrhoeae*, and clinicians should remain vigilant for cases of treatment failure. If a cephalosporin-resistant isolate is highly-suspected or documented on susceptibility testing, retreatment is recommended with either:

- · Azithromycin 2 g orally as a single dose plus gemifloxacin 320 mg orally as a single dose, or
- · Azithromycin 2 g orally as a single dose plus gentamicin 240 mg intramuscularly as a single dose

Note that in the United States, there is currently a drug shortage of gemifloxacin related to a legal dispute regarding the license to manufacture and distribute gemifloxacin. Clinicians who are treating patients with suspected or confirmed cephalosporin resistance should also consult an infectious disease expert and report treatment failure to the Centers for Disease Control (CDC) within 24 hours of diagnosis. In cases of retreatment after treatment failure, a test-of-cure is recommended 7 to 14 days after retreatment. In addition, sexual partners of patients who are found to have an antimicrobial-resistant strain of gonorrhea will require treatment with the same regimen as the source patient.



Site Overview

Links to Other National Network of STD Clinical Prevention Training Centers





LINK to: STD Clinical Consultation Provided by the STD Clinical Consultation Network



STD Modules Self-Study

STD Clinical Consultation Network

STD Modules

Ouick Reference

For Licensed Healthcare Professionals and STD Program Staff

- The *National STD Curriculum* does not provide clinical consultation. If you are interested in obtaining clinical consultation regarding STD-related patient care, please contact the STD Clinical Consultation Network.
- The STD Clinical Consultation Network is a free clinical consultation service provided by expert faculty at regional STD Prevention Training Centers, as part of the National Network of STD Clinical Prevention Training Centers.
- The STD clinical consultation service is available only to licensed healthcare professionals and STD program staff.



STD Clinical Consultation Network

Consultations can be submitted at https://www.STDCCN.org Consultations or by clicking on the logo above.

Benefits for National STD Curriculum members

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Signed in members are able to pre-fill some of the required information on the STD CCN consultation form.

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www.STDCCN.org



About the National STD Curriculum

The National STD Curriculum is a free educational Web site from the University of Washington STD Prevention Training Center and the University of Washington. This project is funded by a grant from the Centers for Disease Control and Prevention (CDC).

STD Modules

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The National STD Curriculum addresses the epidemiology, pathogenesis, clinical manifestations, diagnosis, management, and prevention of STDs.

Free <u>CME</u> credit and free <u>CNE</u> credit are offered throughout the site.

🔒 Contributors

Site Overview

Funded by a grant from the Centers for Disease Control and Prevention

Self-Study Modules CNE/CME

Chlamydia Gonorrhea Herpes Simplex Virus (HSV) Human Papillomavirus (HPV) Pelvic Inflammatory Disease (PID) Syphilis Vaginitis

Quick Reference

UNIVERSITY of

WASHINGTON

Chlamydia Gonorrhea Herpes Simplex Virus (HSV) Human Papillomavirus (HPV) Pelvic Inflammatory Disease (PID) Syphilis Vaginitis



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About the National Network of STD Clinical Prevention Training Centers

The National STD Curriculum is part of the National Network of STD Clinical Prevention Training Centers (NNPTC), a CDC-funded group of regional and national STD training centers created in partnership with health departments and universities.

The NNPTC is dedicated to increasing the knowledge and skills of health professionals by providing a spectrum of state-of-the-art trainings for STD prevention and treatment with a particular focus on experiential learning.

To learn more about the NNPTC and STD trainings in your region, please visit the NNPTC web site at http://nnptc.org/.

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Contributors Site Overview Content Bundles

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board-review style questions that

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Modules, Click for details,

emphasize key points in the 2015 STD

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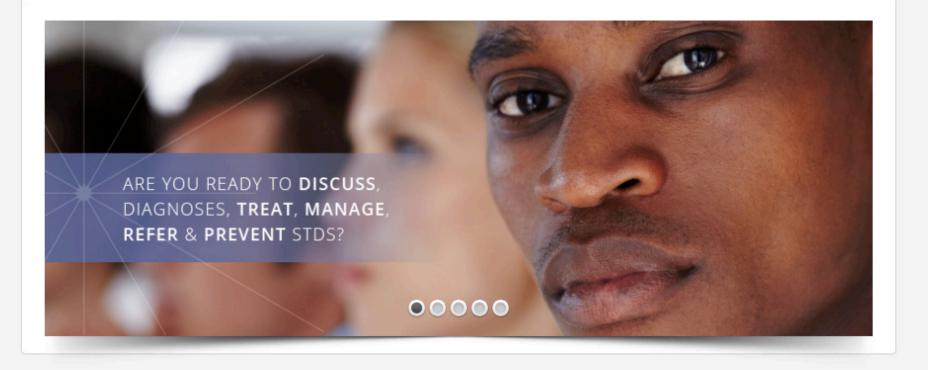
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National Network of STD Clinical Prevention Training Centers



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www.nnptc.org



Synergy of Three CDC-Funded STD Programs

National Network of STD Clinical Prevention Training Centers

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. Bacterial Vaginosis	Disease 1. Bacterial	Vaginosis	
1.1.A. Additional References	Additional Reference	es	
Candidiasis - Vulvovaginal		of lactobacillus probiotics in the treatment or prevention	of urogenital infectionsa
1.2.A. Additional References	systematic review. J Chemoth	ner. 2009;21:243-52.	PubMed Abstract
Chancroid		elence of bacterial vaginosis: 2001-2004 National Health	and Nutrition Examination
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1.4.3. Clinical Manifestations	05 is decreased by sexual act	tivity and endogenous Lactobacilli. J Infect Dis. 2009;199:	1506-13. PubMed Abstract
1.4.4. Laboratory Diagnosis	Balkus JE, Manhart LE, Lee J, e	et al. Periodic Presumptive Treatment for Vaginal Infection	ons May Reduce the
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1.4.6. Treatment	Bautista CT, Wurapa F, Satere	en WB, Morris S, Hollingsworth B, Sanchez JL. Bacterial va	
.4.7. Patient Counseling and Education		ence, risk factors, and relationship with chlamydia and g	
Gonorrhea	Wed Res. 2010,5.4.		PubMed Abstract
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1.6.2. Microbiology and Pathogenesis			
1.6.3. Clinical Manifestations	M	lore than 1200 STD-r	elated refe
I. Laboratory Diagnosis			PubMed Abstract

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1.6.5. Screening for Gonococcal Infection

1.6.6. Treatment

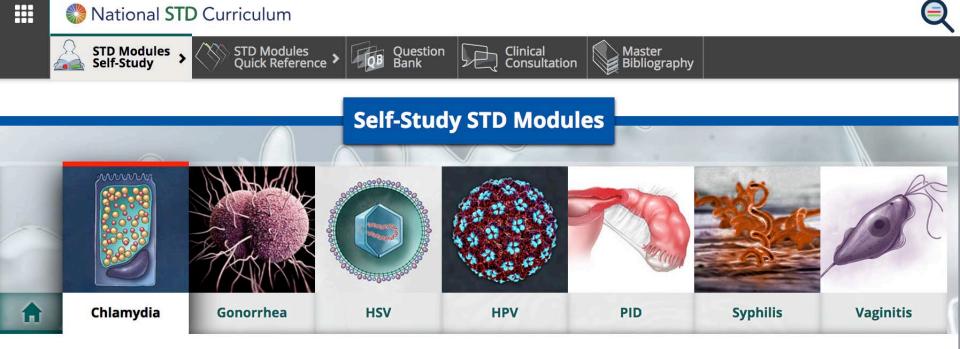
1.6.A. Additional References



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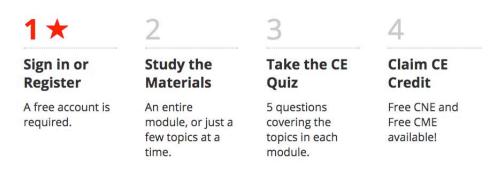
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Self-Study STD Modules for Clinicians

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- You will be able to claim CE credits CME/CNE
- You will have the ability to resume this curriculum at any point in time
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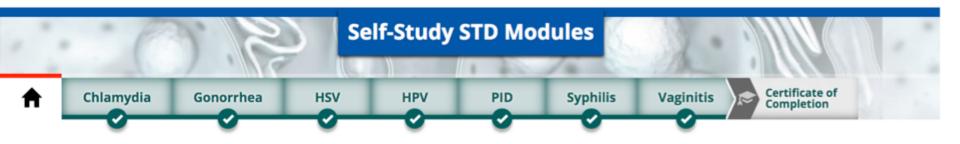
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 - Track progress of your staff or students



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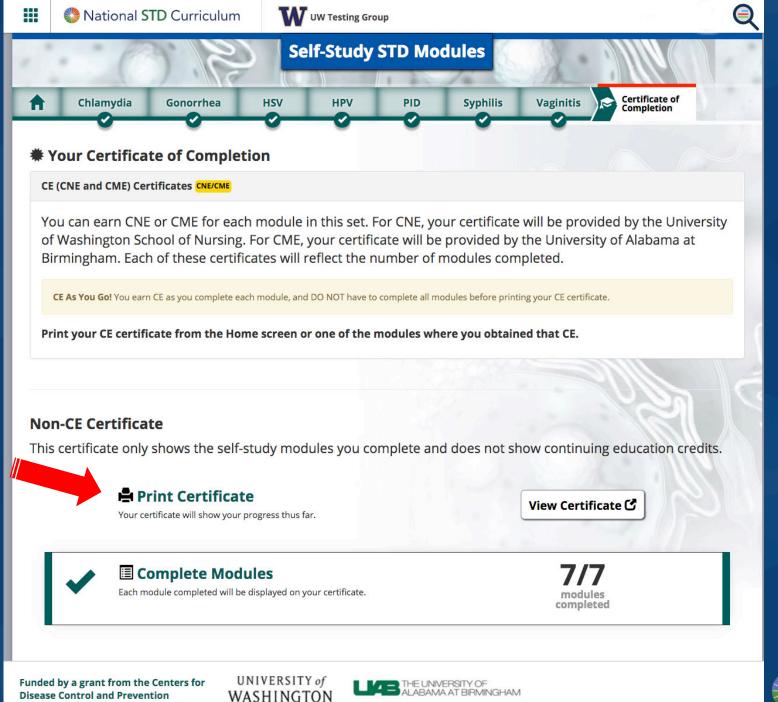
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Mycoplasma genitalium	12	4 5	CE Earned	80%
Trichomoniasis		4 5 6 7 8		13%
Syndrome-Based Diseases				
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Epididymitis				

National STD Curriculum







Certificate of Completion

University of Washington and the National STD Curriculum certify that

has completed the

Chlamydia, Gonorrhea, HSV, HPV, PID, Syphilis, and Vaginitis

modules of the

Self-Study STD Modules

David H. Spach, MD Professor of Medicine University of Washington Editor-in-Chief National STD Curriculum



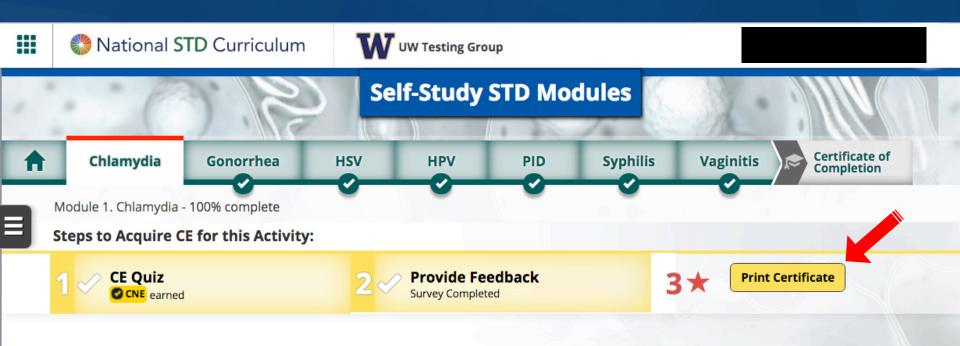
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The following Modules were completed:

Modules	Learning Objectives	Completed as of
Chlamydia	 Summarize the epidemiology of Chiamydia trachomatis infections in the United States Describe the microbiology, life cycle, and transmission of Chiamydia trachomatis. Discuss the clinical manifestations of chiamydial infections in men, women, and children. Compare the common laboratory diagnostic methods used to diagnose chiamydial infections. State routine chiamydial screening recommendations for different patient populations. List the CDC-recommended treatment regimens for chiamydial infections. Summarize counseling and education messages for individuals with chiamydial infection. 	May 22, 2017









University of Alabama School of Medicine

Division of Continuing Medical Education



has earned CME credit for the following activities:

National STD Curriculum Question Bank

auestion bank		
12/05/2017	Granuloma Inguinale	0.5
	Total AMA PRA Category 1 Credits™	0.5

STD Self-Study Modules

011/26/2017	Herpes Simplex Virus – Genital	1
011/16/2017	Human Papillomavirus Infection	1
	Total AMA PRA Category 1 Credits™	2

Funded by the Centers for Disease Control and Prevention, the University of Washington developed the National STD Curriculum, the Hepatitis C Online, and the Hepatitis B Web Study websites to enhance American healthcare professionals' ability to diagnose, treat and manage these diseases. For the same purpose, the U.S. Health Resources & Services Administration funded the University of Washington to develop the National HIV Curriculum.

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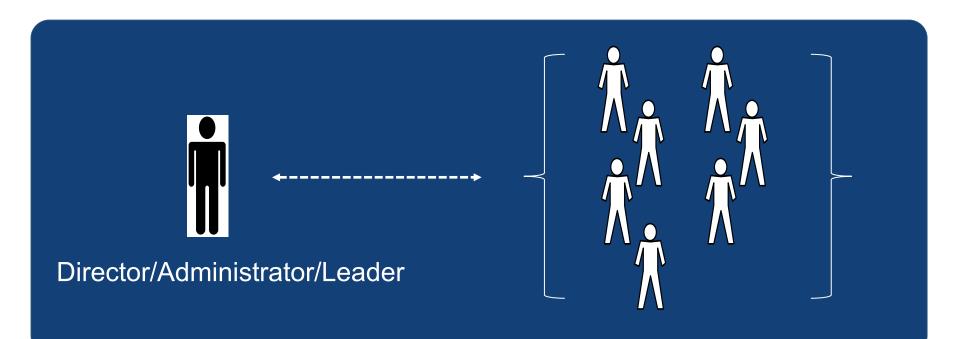
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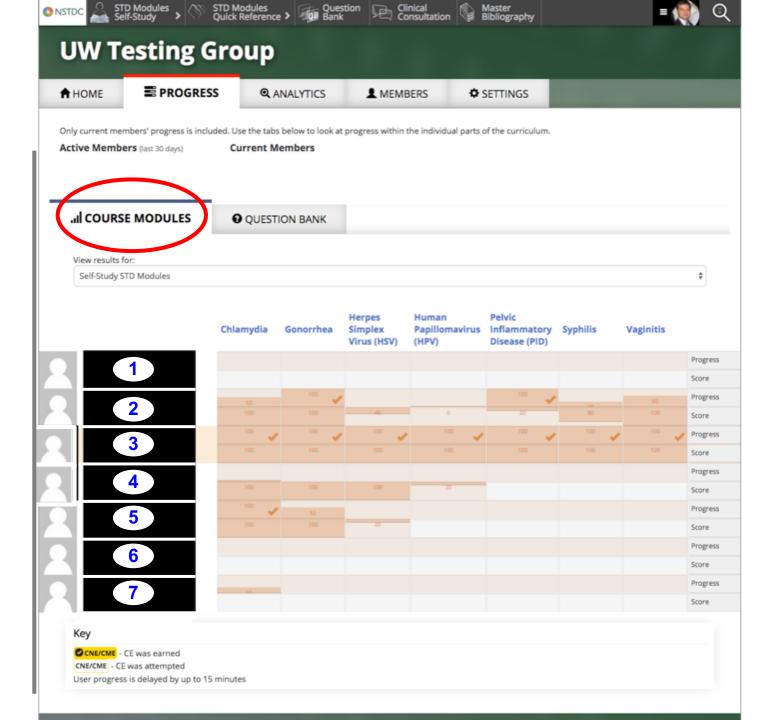
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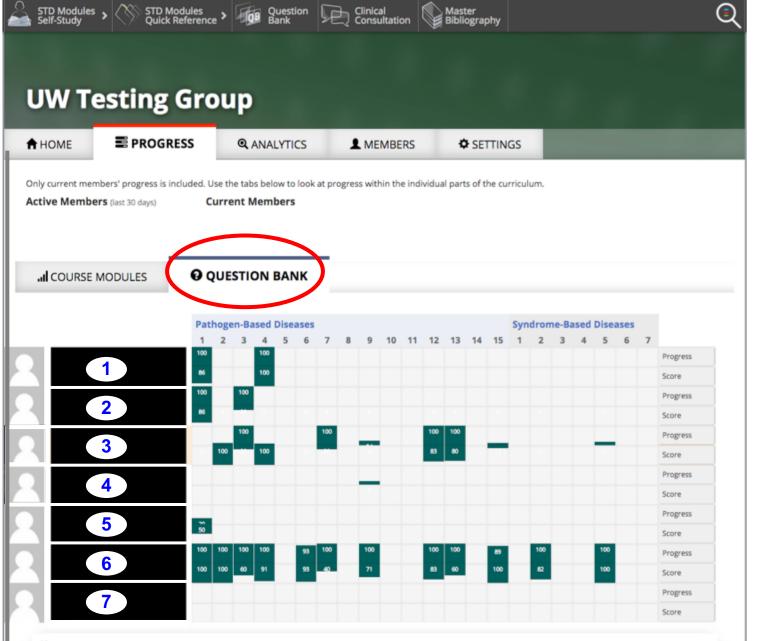
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Key

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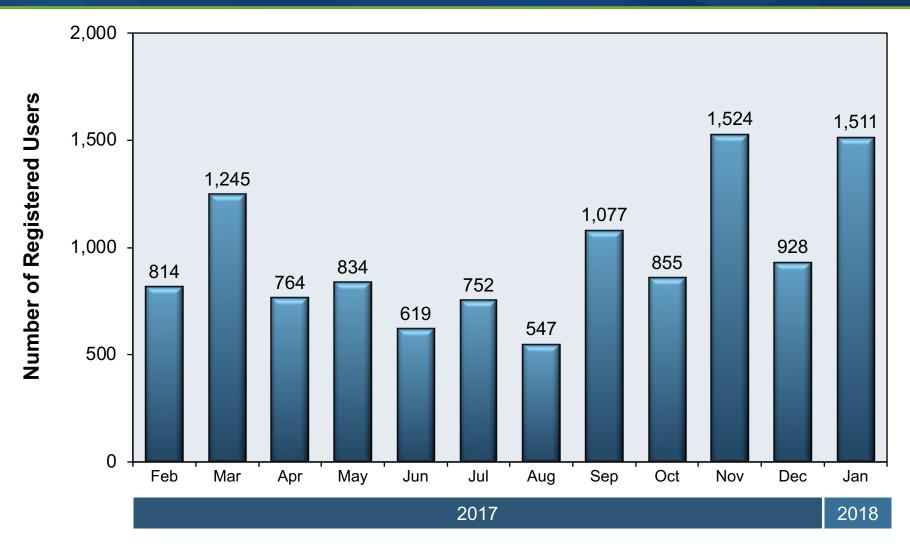
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"1 Year" Data



Through January 24, 2018

National STD Curriculum Number of Registered Users by Month





National STD Curriculum Cumulative Number of Registered Users



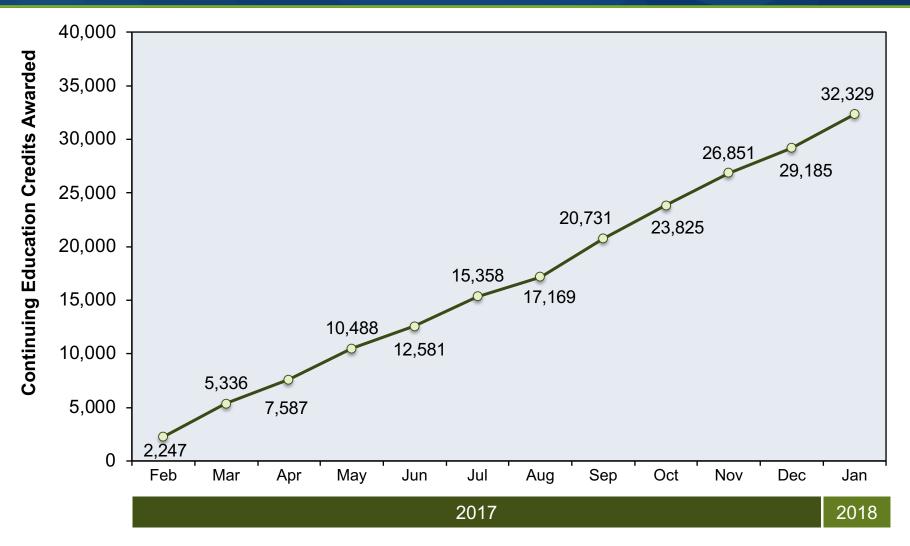


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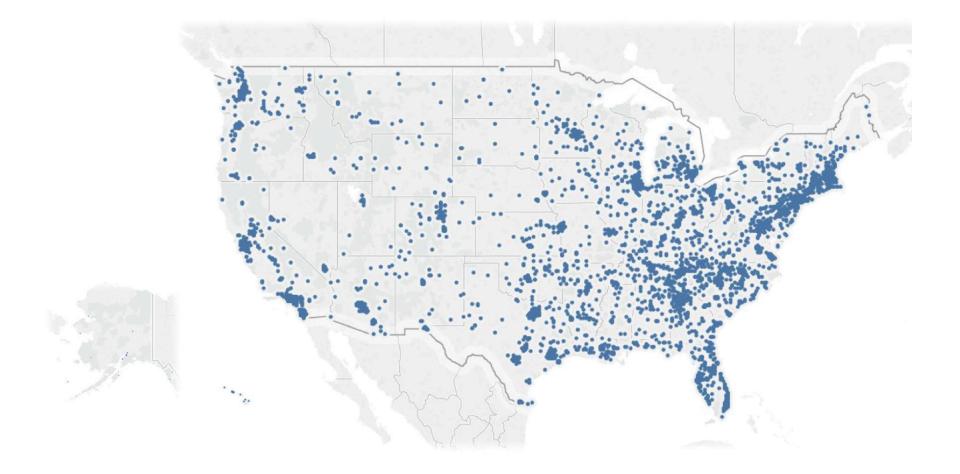
Check on Learning Activity in Self Study Modules

Check on Learning Activity in Self-Study Modules

Title of Module	# Questions	# Participants	# Answers
Chlamydia	12	6,986	72,046
Gonorrhea	10	5,182	46,814
Herpes Simplex Virus	9	4,426	35,995
Human Papillomavirus	10	3,873	34,856
PID	10	3,292	29,973
Syphilis	10	3,578	31,072
Vaginitis	13	3,726	43,035
TOTAL	74		293,791

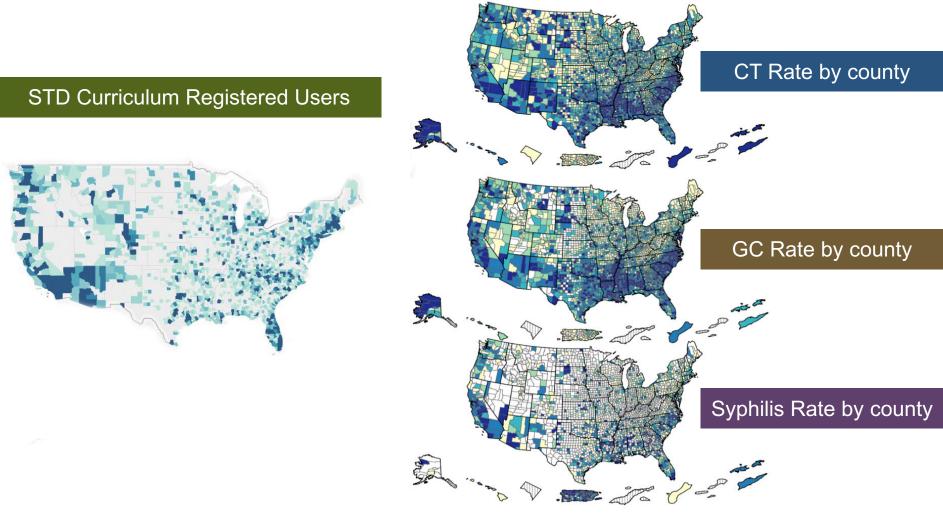


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National STD Curriculum Registered Users by Zip Code







NATIONAL STD CURRICULUM

Future Developments for Curriculum



National STD Curriculum Expansion of Question Bank

STD Modules > STD Modules Self-Study > Outck Reference > To Question Con	ical isultation Sibliograpi	ny		~
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Syndrome-Based Diseases

- Proctitis, Proctocolitis, and

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Save your progress! Creating an account and signing in allows you to track

questions you have answered, see your progress and resume at a later date. An

J[®] Explore the Questions

All of the questions are available for free. Start learning and reviewing material anytime without the need to register.

Choose a topic from the list to begin O

Pathogen-Based Diseases

Bacterial Vaginosis

- Candidiasis Vulvovaginal
- Chancroid
- Chlamydia
 Gonorrhea
- Granuloma Inguinale
- Herpes Simplex Virus Genital
- Lymphogranuloma venereum
- Mycoplasma genitalium
- Trichomoniasis



2015 Sexually Transmitted Diseases Treatment Guidelines

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Terms and Abbreviations Used in This Report	

STD Treatment Guidelines Learning and Assessment Tool



National STD Curriculum: STD Case Studies Revision Tentative Planned Topics

- Routine STD history and examination
- Genital ulcer
- Cervicitis
- Vaginal discharge
- Urethritis/Urethral discharge
- Proctitis
- Testicular swelling and pain
- Evaluation and management of acute HIV

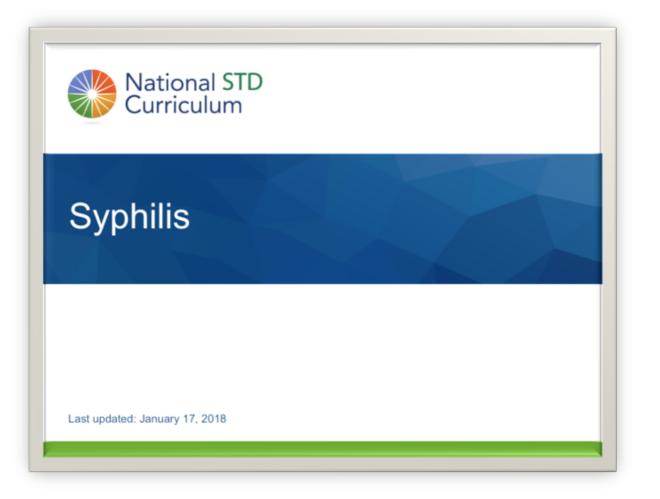


National STD Curriculum Clinical Challenges/Expert Opinions

- Expert opinions for challenging cases
- Expert opinions for controversial topics

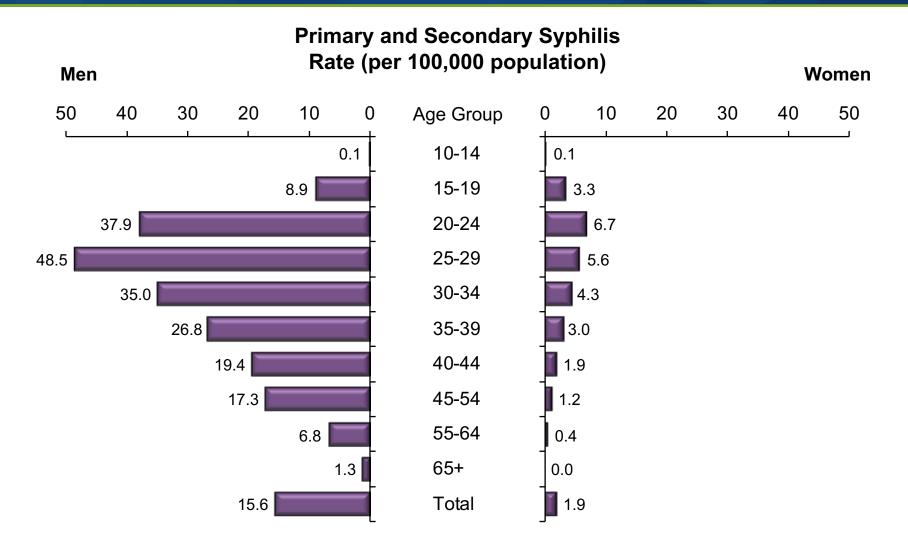


National STD Curriculum Power Point Slide Decks





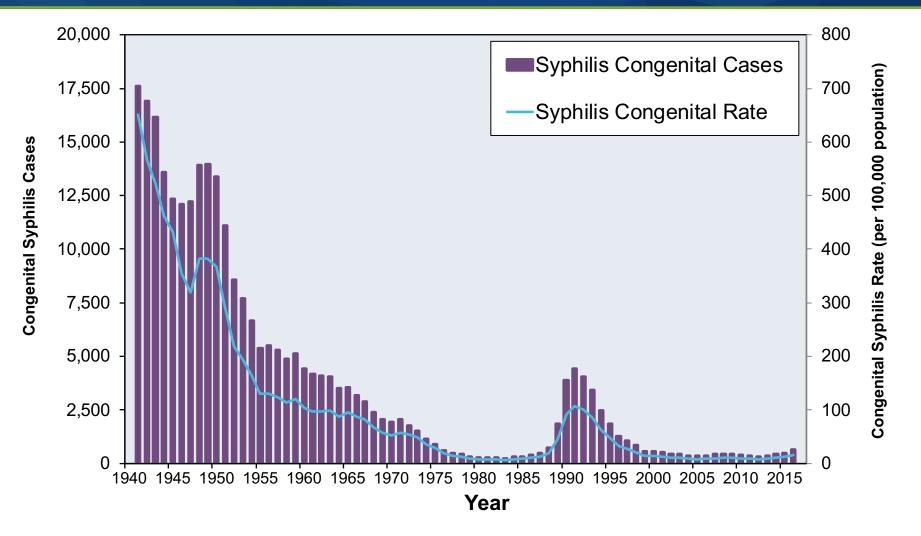
Primary and Secondary Syphilis — Rates of Reported Cases by Age and Sex, U.S., 2016



Source: CDC. Sexually Transmitted Disease Surveillance 2016. Syphilis.



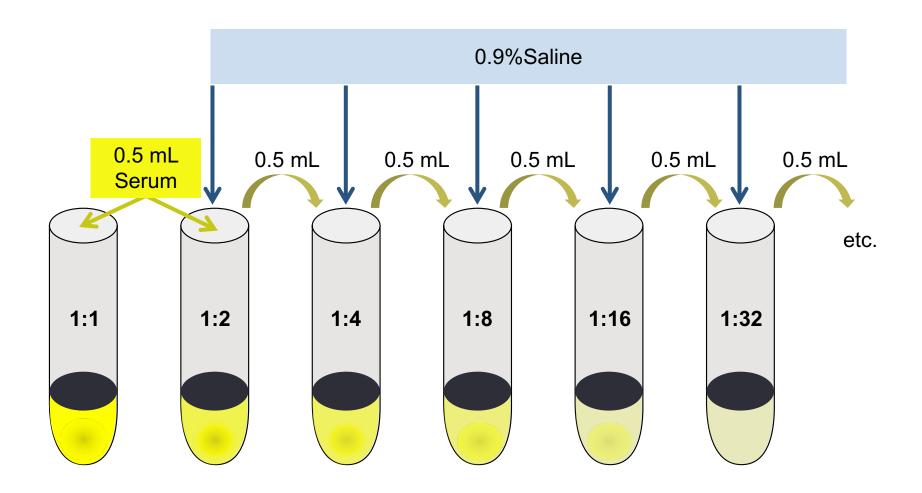
Syphilis — Reported Cases of Congenital Infection, United States, 1941–2016



Source: CDC. Sexually Transmitted Disease Surveillance 2016. Syphilis.

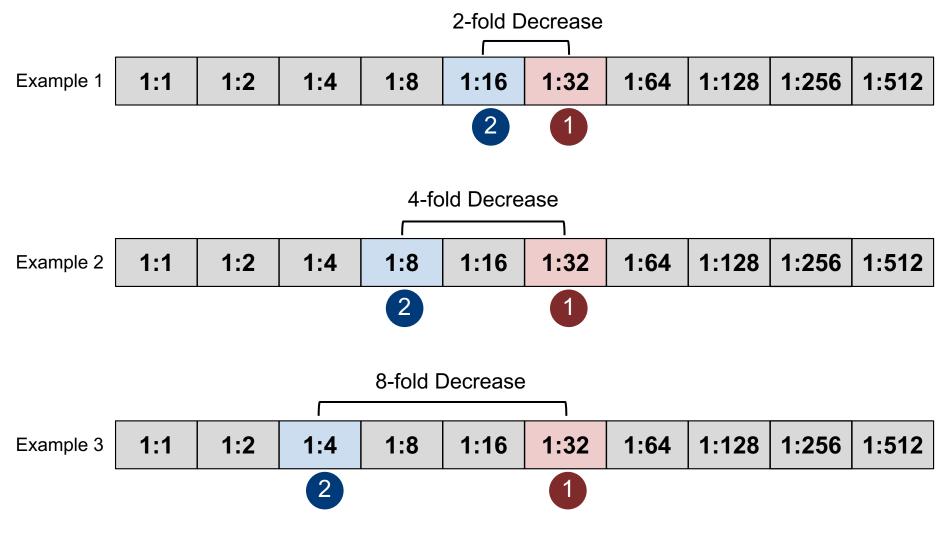


Tube Dilution with Syphilis RRP Testing



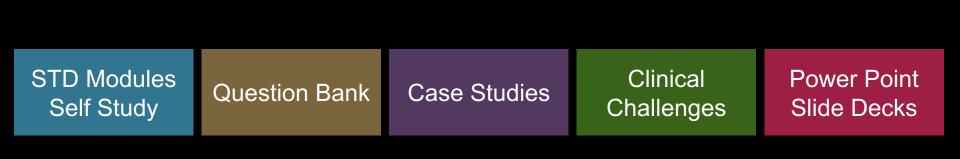


Sample Syphilis VDRL Titer Changes



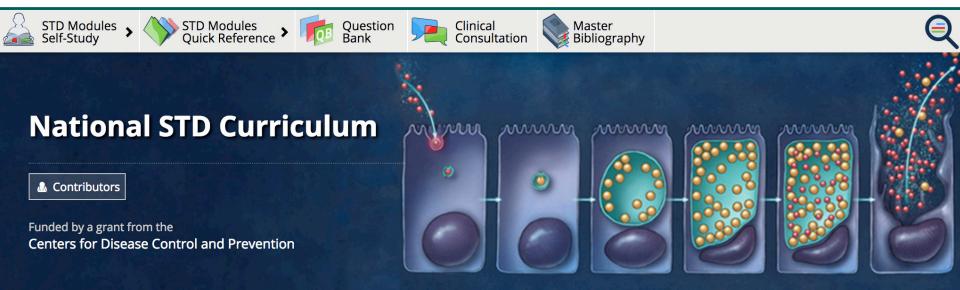


National STD Curriculum Long-Range Plans: Learning Platform/Portfolio





🎇 National STD Curriculum



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