AMA
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ASSOCIATION

Screening is the first step to treatment

Screen your patients for HIV, STIs, Viral Hepatitis and LTBI

→ **GET STARTED NOW**

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Disclaimer: The AMA HIV, STIs, Viral Hepatitis and LTBI Routine Screening Toolkit contains resources supplied by third party organizations. Inclusion of these materials in the toolkit does not imply endorsement of these resources or corresponding organization.

Land and Labor Acknowledgement

We acknowledge that we are all living off the stolen ancestral lands of Indigenous peoples, which they have cared for since time immemorial. We acknowledge the extraction of brilliance, energy and life for labor forced upon people of African descent for more than 400 years. We celebrate the resilience and strength that all Indigenous people and descendants of Africa have shown in this country and worldwide. We carry our ancestors in us, and we are continually called to be better as we lead this work.

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Introduction

Every year, millions of Americans are diagnosed with human immunodeficiency virus (HIV), sexually transmitted infections (STIs), viral hepatitis or tuberculosis (TB) and tens of thousands die from their infection. Guideline adherent screening programs can effectively identify these infections creating opportunities for treatment and prevention. Most of these infections share commonalities, from modes of transmission to demographic, social, and economic conditions that increase risk.

Routine screening and early detection of HIV, STIs, viral hepatitis and LTBI are critical for the health of our communities as these infections can have an asymptomatic stage which may prevent individuals from seeking the testing needed. For example, not everyone infected with TB bacteria becomes sick. As a result, two TB-related conditions exist: latent TB infection (LTBI) and TB disease. Persons unaware of their health status cannot take advantage of the treatment needed to improve their health and can unknowingly transmit the virus to other individuals.

The American Medical Association's (AMA) HIV, STIs, Viral Hepatitis and LTBI Routine Screening Toolkit for Community Health Centers and Emergency Departments is specifically designed to help clinicians overcome barriers and integrate screening into routine patient care.

The toolkit was vetted and reviewed by clinicians and physicians in community health centers and emergency departments nationwide, with a particular focus on practice leaders and champions who are looking to optimize routine screening practices. Its evidence-based approach walks through detailed, actionable steps for implementing routine screening to improve patient health outcomes.

What is routine screening?

By routine screening, we mean implementation of the Centers for Disease Control and Prevention (CDC) and U.S. Preventive Services Task Force (USPSTF) evidence-based preventive service guidelines and recommendations, including testing patients without symptoms based on patient characteristics or reported behaviors that would indicate screening is recommended. The AMA, as reflected in policy, supports the adoption and implementation of evidence-based preventive screening guidelines.

Implementing an effective routine screening program

Several critical considerations need to be understood and addressed to achieve successful routine screening practices.
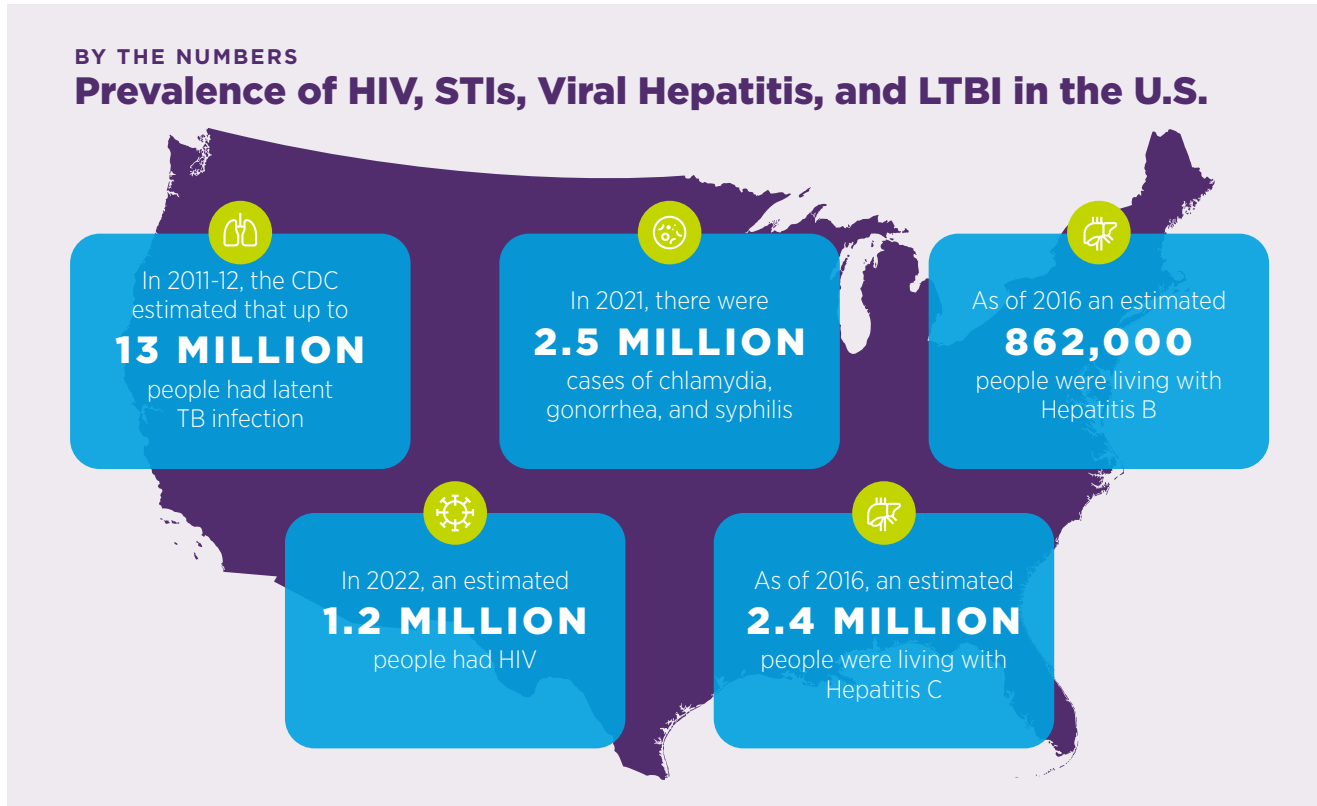
- **Infectious disease testing is often considered separate from routine care.** Community health centers serve a variety of health needs. While screenings for blood pressure and cholesterol may be considered routine, screenings for infectious diseases may not. Infectious disease testing separate from regular routine care may reduce the likelihood people receive needed tests.

- **Care is often complaint-based.** A patient's most immediate complaints often drive appointments, due to pressures of time and patient satisfaction. Frequently, routine infectious disease screening is not front of mind unless their complaint is related to symptoms of HIV, STIs, viral hepatitis or LTBI.

- **Confusion over the definition of "routine" prevails.** Clinicians often undertake testing only when a patient presents with certain risk factors associated with HIV, STIs, viral hepatitis or LTBI. While these risk factors may be included in routine screening guidelines, others in need of routine screening are often overlooked, and not everyone recommended for routine screening is tested. Uncertainty or discomfort over how to link persons diagnosed with HIV and other conditions to care may also discourage clinicians from screening.

- **Stigma and fear persist.** HIV, STIs, viral hepatitis and LTBI carry stigmas, and screening for these conditions comes with a fear of knowing one's status—particularly with HIV. Clinicians sometimes need help working with patients to normalize screening and results counseling.

How to use the routine screening toolkit

The toolkit resources include a mix of both implementation and training-related materials for the care team. It is flexible, allowing you to follow along throughout the continuum to help improve your overall screening and testing approach or narrow in and focus on a specific stage. While not a specific stage, monitoring and evaluation along the screening continuum is critical and performance outcomes should inform continuous quality improvement efforts.

Impact by the numbers

Community health centers and emergency departments are uniquely positioned to screen for HIV, STIs, viral hepatitis, and LTBI among under-resourced and disproportionately affected populations. Together we can increase screening and reduce the number of new infections, but first we must understand the scale of the problem.

BY THE NUMBERS
Prevalence of HIV, STIs, Viral Hepatitis, and LTBI in the U.S.

In 2011-12, the CDC estimated that up to **13 MILLION** people had latent TB infection

In 2021, there were **2.5 MILLION** cases of chlamydia, gonorrhea, and syphilis

As of 2016 an estimated **862,000** people were living with Hepatitis B

In 2022, an estimated **1.2 MILLION** people had HIV

As of 2016, an estimated **2.4 MILLION** people were living with Hepatitis C

"For the most recent data, please visit CDC's National Center for HIV, Viral Hepatitis, STD, and TB Prevention AtlasPlus, HIV Data | CDC, STI Statistics | CDC, Statistics & Surveillance of Viral Hepatitis | CDC, and TB Data & Statistics | CDC.

Community Health Centers

STEP 1:
Community outreach

A successful routine screening program begins with outreach strategies rooted in engagement outside the community health center's walls, forming long-term bonds with the community and delivering educational messages that stick.

Critical considerations at this stage

- Health care is not a priority compared to income, housing or food insecurity
- Distrust of institutional health
- Lack of awareness in the community about the need for routine screening
- Lack of knowledge on costs and affordability of screening
- Shortage of access to sites that provide screening
- Lack of adequate transportation to clinics
- Misconceptions about disease transmission
- Fear of finding out one's status and the associated stigma in the community

Strategies you can implement

1. Build strong community partnerships

Building trusted relationships is critical to normalizing routine screening. Establishing a referral program through network of affiliates and community, medical and social service organizations, including those organizations who may already be doing community-based testing, will link more patients to your community health center for screening and care.

Step 1: Community Outreach (cont)

☑ **Related resources** ....

- [Tool for Tracking Partners and Partnership Activities](#): Pages 81-88 from the Health Resources and Services Administration's (HRSA) Integrating HIV Care, Treatment & Prevention Services into Primary Care–A Toolkit for Health Centers guide includes a Partnership Toolkit that provides a comprehensive list of key considerations, steps and templates to help guide your organizations' community relationship building and tracking.

- [Partnership Mapping Template (PDF)](#): This template provides a framework to help your organization keep track of relationships with non-clinical services and outpatient clinics that will support both community outreach and a sustainable linkage to care program.

2. Increase local and digital visibility

More traditional approaches such as on-the-street flyers and targeted social media ads help establish visibility of a clinic's services and notify the public of its accessibility and affordability.

☑ **Related resources** ....

- Social and Digital Marketing Material and Campaign Examples: The [CDC's National Prevention Information Network](#) includes information and links to digital marketing examples and marketing campaigns executed by a variety of organizations.
  - [CDC's National Prevention Information Network Digital Media Tools for HIV](#)
  - [CDC's Let's Stop HIV Together Social Media Toolkits](#)
  - [CDC's National Prevention Information Network Digital Media Tools for hepatitis](#)
  - [CDC's National Prevention Information Network Digital Media Tools for STDs](#)
  - [CDC's Think. Test. Treat TB Campaign](#)
  - [CDC's Latent TB Infection Resource Hub](#)

3. Establish an integrated approach to care

Employ a holistic social determinants of health (SDOH) approach to your care, offering wrap-around services such as mental health care and non-clinical support with employment or housing, to initiate screening and ensure longer term care.

☑ **Related resources** ....

- [Tools for Putting Social Determinants of Health into Action](#): This CDC webpage compiles a series of tools and resources that health care practitioners can review in order to embed strategies to address social determinants of health in their organization.

- [Health-Related Social Needs Screening Tool (PDF)](#): This resource from the Centers for Medicare and Medicaid Services can help clinicians find out patients' needs in five core domains including housing instability, food insecurity, transportation problems, utility help needs and interpersonal safety.

- [PRAPARE Screening Tool and Implementation Toolkit](#): Developed in partnership between the National Association of Community Health Centers, the Association of Asian Pacific Community Health Organizations, and the Oregon Primary Care Association the Protocol for Responding to and Assessing Patients' Assets, Risks, and Experiences (PRAPARE) is a national standardized patient risk assessment protocol designed to engage patients in assessing and addressing social determinants of health.

Care team training on the SDOH:

- **AMA STEPS Forward® Module: Addressing Social Determinants of Health**: This learning module from AMA STEPS Forward® outlines how to identify methods to understand the unique health needs of your community and formulate a plan to help your organization begin to address social determinants of health.

- **Social Determinants of Health foundational course**: This case-based virtual course from Aquifer provides foundational knowledge and a framework for building skills that minimize the effects of social determinants of health, on health outcomes.

- **Training Primary Care Residents on the Social Determinants of Health**: This resource from the Greater New York Hospital Association includes foundational content that can be used when teaching social determinants of health concepts to both primary care residents as well as other care team members involved in the routine screening process.

4. Meet patients where they are

Expanding or building partnerships for testing outside of the clinical setting—and bringing it to local clubs, bars, rehab centers or on-the-street mobile clinics—helps overcome transportation barriers and normalize screening in the community.

☑ **Related resources** ....

- **HIV Testing in Non-Clinical Settings**: This CDC webpage compiles a series of guidelines, recommendations and job aids that supports HIV testing in non-clinical setting.

- **Implementing HIV Testing in Nonclinical Settings: A Guide for HIV Testing Providers (PDF)**: The purpose of this guide from the CDC is to familiarize clinicians with key programmatic issues that impact delivery of HIV testing services in nonclinical setting.

5. Provide patient-centric education materials

Patient education materials that are linguistically and culturally reflective of populations disproportionately affected (such as Baby Boomers for HCV or refugees for LTBI) help patients overcome shame and understand the need for routine screening.

☑ **Related resources** ....

- Patient Education Materials from the CDC: These links compile downloadable patient education materials from the CDC with resources targeted to different patient demographics and available in multiple languages.
  - **HIV Consumer Info Sheets**
  - **Viral hepatitis Patient Education Materials**
  - STIs Patient Education Resources from the CDC
    - **CDC Fact Sheets**
    - **Next steps after testing positive for gonorrhea or chlamydia**
    - **Getting Tested for STIs**
    - **How to Prevent STIs**
  - How to prevent STIs, LTBI and TB disease resources
    - **Find TB Resources: TB Education & Training from the CDC**
    - **Tuberculosis Patient & General Public Materials**

Step 1: Community Outreach (cont)

- JAMA Network™ Patient Pages: JAMA Patient Pages are free patient resources designed to distill high-quality evidence and updated guidance from USPSTF into a more accessible patient friendly format to help guide patient decisions. These resources can also be helpful to reference as your clinic or institution develops their own patient-friendly educational resources.
  - HIV
    - [Human Immunodeficiency Virus](#)
    - [Who Should Be Screened for HIV Infection?](#)
    - [Can HIV Infection Be Prevented With Medication?](#)
    - [HIV Infection: The Basics](#)
  - Viral hepatitis
    - [Screening for Hepatitis B in Nonpregnant Adolescents and Adults](#)
    - [Screening for Hepatitis B in Pregnant Women](#)
    - [Screening for Hepatitis C Virus Infection](#)
    - [Treating Hepatitis C](#)
  - STIs
    - [What is Syphilis?](#)
    - [Screening for Syphilis in Pregnant Women](#)
    - [Screening for Syphilis](#)
    - [Screening for Chlamydia and Gonorrhea](#)
  - LTBI
    - [Screening for Latent Tuberculosis HIV Testing in Non-Clinical Settings: This CDC webpage compiles a series of guidelines, recommendations and job aids that supports HIV testing in non-clinical setting.](#)

STEP 2:

Patient intake

Frequently, sporadic visits to the emergency department or multiple community health centers might be a patient's only interaction with the health care system and can lead to challenges in health record traceability and continuity of care. Obtaining medical records to guide the clinical decision-making process can pose a challenge especially among patients who are uninsured and underinsured.

Additionally, patient discomfort with discussing sexual history negatively impacts access to care, disrupts important risk assessment conversations and often prevents test consent. Creating a trusted and welcoming environment for the patient and letting them play a larger role in the screening process by actively engaging them in the intake process in conjunction with automated support, can help give a better view of the patient's screening needs.

Critical considerations at this stage

- Incomplete medical history stored across multiple care locations
- EHR excludes patient records from other health care systems

- Inconsistent demographic information
- Patient discomfort in discussing personal history
- Staff discomfort in discussing personal history with patients

Strategies you can implement

1. Create a trusted and welcoming environment

Trust is earned through creating an environment and care team that is understanding of the patient's needs: hire from the community, keep the screening team small and personal, and offer options to self-report. Concerns of privacy and patient comfort with discussing sexual health history can be particularly challenging in emergency departments where

physical space presents a challenge, with emergency triage areas lacking the appropriate privacy for conversations about sexual history or consent. Hiring administrative and clinical staff that reflect the language, culture, race, sexuality and socio-economic status of communities that health settings intend to serve helps bridge gaps in communication at patient intakes and helps "catch" opportunities for screening.

☑ **Related resources** ....

- <u>Tools to Create a Welcoming Environment</u>: Included as a subset of resources in the National Coalition of Sexual Health's Compendium of Sexual & Reproductive Health Resources for Healthcare Providers, users can find examples and resources on how to create a welcoming and safe environment for both teen and LGBTQ patients.
- <u>Target HIV Cultural Competency Resources</u>: This webpage includes a collection of guidance, tools and trainings that clinicians can use to identify and address bias to improve communication with diverse patients.
- <u>Cultural Competence in Health and Human Services</u>: This resource from the National Prevention Information Network defines what cultural competence is and how it applies to HIV, viral hepatitis, STI and TB prevention.

2. Involve patients in the screening process

Proactive engagement with patients at intake, through written or tablet surveys, allows clinics to gather information that will expedite the screening workflow, enable privacy and help form a more robust patient record. Front desk staff should be trained to provide patients with self-assessments. Patient navigators can assist with self-assessments, if available. Enabling self- or automated risk assessment saves time in the workflow and prevents physician fatigue. Further assessment of clinical risk factors can be conducted by the physician at a later point, once the patient tests positive.

☑ **Related resources** ....

- Self or risk assessment templates: The following links provide you with examples of self or risk assessment templates that you can leverage in your practice.
  - <u>HIV</u>: Learn the HIV risk of different sexual activities when one partner is HIV positive and one partner is HIV negative (a discordant partnership).
  - <u>STIs</u>: Assess your risk with the CDC's Prepare Before You're There STI self-risk assessment quiz.
  - <u>Viral hepatitis</u>: Assess your risk with this Hepatitis Risk Assessment Tool from the CDC.
  - <u>LTBI</u> (PDF)
    - <u>This CDC resource is an LTBI guide booklet for primary health care clinicians. Appendix A of this resource is a sample risk assessment that can be leveraged when screening for LTBI.</u>

3. Register patients into EHR portals

Registering patients into EHR portals such as MyChart helps connect visitation data over time and keeps patients informed of the need for return visits. They also have ownership over their health information, which can go with them wherever they go.

☑ **Related resources** ....

- <u>AMA STEPS Forward®: Patient Portal Optimization</u>: This training module from AMA STEPS Forward® outlines how patient portals can help both the care team and patients and how you can encourage your patients to enroll.

4. Collect comprehensive patient demographics and sexual history

Developing a standardized method to collect patient demographics, including race and ethnicity data, and sexual history can not only help you understand the screening needs for your patient, but can also be a mechanism to help identify quality improvement initiatives related to population health and improve health equity in your practice. Patient discomfort

and stigma surrounding sexual history negatively impacts access to care and oftentimes disrupts screening consent. Equipping clinicians in your organization with tools and resources to routinely capture this information in an accurate and sensitive manner will help increase screening.

☑ **Related resources** ....

- Discussing Sexual Health with Your Patients: The resource from the CDC outlines strategies and tips for facilitating discussions with and asking patients sensitive questions related to sexual health.

- A Guide to Taking a Sexual History: This CDC resource offers a framework for discussing sexual health issues to help clinicians complete the overall picture of their patient's health.

- GOALS Framework for Sexual History Taking in Primary Care: The GOALS Framework resource from the Clinical Guidelines Program of the New York State Department of Health AIDS Institute is designed to streamline sexual history conversations and elicit information most useful for identifying an appropriate clinical course of action.

- Sexual Health and Your Patients: A Provider's Guide: The resource from the National Coalition for Sexual Health was developed to help health care professionals better integrate sexual health conversations and recommended preventive services into routine visits with adolescents and adults.

- AMA STEPS Forward®: Collecting Patient Data–Improving Health Equity in Your Practice: This training module from AMA STEPS Forward® highlights why it is important to collect patient race and ethnicity data and how you can establish standards for and train your staff to collect this data.

5. Define clear approach and team member roles for routine screening

A lack of a clear protocol for routine screening, compounded by an overwhelming demand for care, causes staff roles to blur. A clear routine screening plan, streamlined by EHR support, can help clarify care team member roles.

☑ **Related resources** ....

- Clinical algorithm flowcharts for screening: This set of documents translates screening guidance and clinical considerations from the USPSTF and CDC into a decision tree format to guide implementation.
  - Clinical algorithm flowchart for HIV screening (PDF)
  - Clinical algorithm flowchart for Chlamydia and Gonorrhea screening (PDF)
  - Clinical algorithm flowchart for Syphilis screening (PDF)
  - Clinical algorithm flowchart for HBV screening (PDF)
  - Clinical algorithm flowchart for HCV screening (PDF)
  - Clinical algorithm flowchart for LTBI screening (PDF)
- Streamlined testing cascade: This set of infographics outlines the testing cascade for infectious diseases covered in this toolkit, including opportunities to optimize screening, and can be used to help clarify care team member roles at each step as well as define a clear post-test protocol.
  - Streamlined testing cascade for HIV testing (PDF)
  - Streamlined testing cascade for STIs (PDF)
  - Streamlined testing cascade for HCV (PDF)
  - Streamlined testing cascade for LTBI (PDF)
- Care team members roles and responsibilities (PDF): This resource outlines potential care team member roles in your organization and the part that they play in the routine screening process.

STEP 3:
Initiating standard screening protocols

Identifying who to screen for what infection(s) and when is a critical consideration for how to implement an effective routine screening program. Community health centers continue to face challenges with individual biases about sexual health and infectious disease, both from patients and the clinical staff. This sense of vulnerability, compounded by socialized stereotypes and stigma, makes STD testing consent conversations emotional and complex. Implementing an opt-out approach to screening can help simplify these conversations and normalize screening as a standard of care.

Guidance from the EHR, including automated reminders and prompts, as well as straightforward, demographic-based routine screening criterion have proven to be effective tools for increasing screening and are time and energy savers for a busy care team. Patients feel more comfortable if routine screening is offered as a clinical standard of care, and they feel seen and heard by health care professionals.

Critical considerations at this stage

- The more complex the criteria, the harder it is to reliably execute routine screening
- Screening conversations can take time while moving through the EHR making the interaction less personal and more transactional
- Implicit bias carried by care team staff members
- Lack of EHR support and optimized structure for routine screening
- Relying on clinicians to remember to screen for all diseases without alerts or reminders
- Time constraint of patient encounters

Strategies you can implement

1. Implement the "opt-out" approach

Training health care professionals to implement opt-out language helps normalize routine screening as standard of care. Opt-out screening reduces the subjectivity of the decision on behalf of the patient where consent is not legally required.

☑ **Related resources** ....

- Explanation of opt-out screening approach for HIV: This resource link from the CDC provides an explanation of an opt-out approach to screening and why it is effective at increasing screening.
- Sample opt out script for clinicians during HIV screening encounter: Pages 4-5 of the Guidance for Delivering HIV Pre-Test and Post-Test Results resource from the Reproductive Health National Training Center outlines samples scripts that clinicians can use when conducting an opt-out approach to HIV screening.
- Discussion Guide: Using normalizing and opt-out language for chlamydia and gonorrhea: This resource from the Reproductive Health National Training Center is designed to build the confidence of clinic staff to use normalizing and opt-out language for chlamydia and gonorrhea screening.
- State Laws that address High-Impact HIV Prevention Efforts: This resource from the CDC is a summary of state specific laws on a minor's autonomous consent for HIV and/STI services, and laws that address HIV prevention efforts.

2. Stick to sex-positive messaging about the benefits of routine screening

Equipping care team members with training and resources on sex-positive and non-judgmental messaging about risk, transmission, treatment, outcomes and benefits of screening can help overcome initial patient refusal.

☑ **Related resources** ....

- Care team resources to help health care providers educate patients on the importance of sexual health: These tools from the National Coalition for Sexual Health can help health care providers and clinical staff cultivate a clinical environment that delivers inclusive, patient-centered, and accessible sexual health services for all patients.
  - Inclusive Sexual Health Services: Practical Guidelines for Providers & Clinics
  - Sexual Health and Your Patients: A Provider's Guide
  - Compendium of Sexual & Reproductive Health Resources for Healthcare Providers
- Care team training on LGBTQ, transgender and gender nonconforming essentials: The AMA Ed Hub offers a series of training modules developed by Howard Brown Health, SAGECare, The Fenway Institute and more that can help provide education to your care team on sex-positive and gender appropriate language and methods to incorporate best practices into your organization.
  - Patient Care Education from Howard Brown Health
  - SAGECare Education
  - LGBTQIA+ Health Education from The Fenway Institute
  - AMA Ed Hub CME Course: LGTBQ Health, Diversity & Inclusion

3. Implement automated EHR reminders, prompts & orders to increase screening

EHRs that automatically flag patients in need of screening as well as EHR reminders to initiate screening takes the pressure off the health care professional to remember who to screen. Alerts can automatically prepopulate test orders, further reducing the clinician's responsibilities. Auto-orders in the EHR that are connected to algorithms to identify

who is recommended for routine screening will reduce time in the EHR and additional steps for clinicians. Positive and indeterminant results can also be linked to auto-orders for confirmatory testing.

☑ **Related resources** ....

- Clinical Decision Support System to Increase HIV Screening: This webpage outlines Community Preventive Services Task Force (CPSTF) recommendations and considerations for clinical decision support systems, which evidence shows increases HIV screening both for the general population as well as those at higher risk for HIV infection.

- Tips to Leverage Your Electronic Health Record to Implement Opt-Out HIV: This resource from Health Information Technology Evaluation and Quality Center outlines best practices and strategies for implementing opt-out HIV screening in your organization using the electronic health record.

4. Strengthen infectious disease control as strategic imperative

Presenting the health and cost-benefit analysis of diagnosing diseases early versus treating disease progression can help strengthen infectious disease control as a strategic imperative in a health setting and gain access to timesaving resources.

Related resources

- HIV Cost-effectiveness: This resource from the CDC provides a basic guide to the cost-effectiveness analysis of prevention interventions for HIV infection and AIDS and help prevention program staff and planners become more familiar with potential uses of economic evaluation.

- Integrating Routine HIV Screening Into Clinical Practice (PDF): This resource from the CDC outlines the clinical benefits of early HIV diagnosis and treatment.

- Cost-effectiveness of testing and treatment for Latent Tuberculosis Infection: This original investigation published in JAMA Internal Medicine aimed to estimate health outcomes, costs, and cost-effectiveness of LTBI testing and treatment among non-US born residents with and without medical comorbidities.

VIEW THIS STEP AND ADDITIONAL VIDEO CONTENT ONLINE →

STEP 4:
Testing & diagnosis

A lack of a clear protocol for testing, compounded by an overwhelming demand for care, causes staff roles to blur and leaves the bulk of the workflow on the clinician's shoulders, including obtaining consent, disclosing results, counseling and coordinating follow-up care.

Some clinicians and staff may also feel intimidated by interpreting results and next steps for the inconclusive test results. For LTBI, the interpretation of the IGRA can often be difficult for clinicians who do not specialize in infectious disease. For HIV, clinicians are often unaware what the next step is upon a positive diagnosis. Providing education on the latest evidence-based guidance for screening, testing and treatment can instill confidence in the care team and provide a more personal approach to address the patient's needs.

Critical considerations at this stage

- Screening guideline ambiguity and the need for clarity for all test result scenarios and who to notify and when to notify them

- Health care professional discomfort with screening and diagnosis for LTBI: fear of transmission (latent vs. active TB); confusion about screening guidelines and what tests to use, how to treat (historically, this used to be the responsibility of the local public health agency)

- Education on interpreting results and next steps for inconclusive/indeterminate results

- Staffing shortages due to financial limitations and consolidation of clinics

- Lack of space to ensure patient privacy

- Lack of on-site equipment and reliance on external labs

- Desire from patients to know results right away is at odds with testing logistics and can lead to loss of contact with the patient before results are complete

- Pressure to meet other funder-driven requirements in addition to patient's chief reason for visit

- Knowledge and awareness of the appropriate CPT codes

- STD tests sometimes run into insurance denials based on diagnostic codes

Additionally, many STI screenings clinics have merged into one model with family planning clinics or general community health centers. This has resulted in staff shortages and community health center care team members taking on multiple responsibilities beyond their core roles. Employing task shifting techniques, defining a routine testing plan streamlined by EHR support, outlining a clear post-test protocol and clarifying team member roles can help incorporate routine screening more seamlessly into standard workflows.

Strategies you can implement

1. Streamline the testing cascade

Optimizing the clinical workflow can help to streamline testing, clarify roles and ensure clinic staff know what happens at each step along the way. Also, leveraging testing innovations like rapid antibody test technologies or Reflex RNA for HCV allows for faster detection through the ability to immediately run another lab test on the same blood draw so that patients do not have to return for additional testing, allows for quicker delivery of results to patients. Clear guidance on testing interpretation and result sharing, in accordance with applicable privacy laws, will help reduce the cognitive load for health care professionals who are juggling a positive diagnosis with other immediate clinical needs. Strong relationships with local health departments (in particular, disease surveillance units) can also enable clinical staff members to rapidly identify which patients are experiencing a diagnosis for the first time, or who need reengagement in medical care.

☑ **Related resources** ....

- Clinical algorithm flowcharts for screening: This set of documents translates screening guidance and clinical considerations from the USPSTF and CDC into a decision tree format to help outline steps in the testing continuum from beginning to end.
  - [Clinical algorithm flowchart for HIV screening](#) (PDF)
  - [Clinical algorithm flowchart for Chlamydia and Gonorrhea screening](#) (PDF)
  - [Clinical algorithm flowchart for Syphilis screening](#) (PDF)
  - [Clinical algorithm flowchart for HBV screening](#) (PDF)
  - [Clinical algorithm flowchart for HCV screening](#) (PDF)
  - [Clinical algorithm flowchart for LTBI screening](#) (PDF)
- Streamlined testing cascade: This set of infographics outlines the testing cascade for infectious diseases covered in this toolkit, including opportunities to optimize, and can be used as a tool to help clarify care team member roles at each step as well as define a clear post-test protocol:
  - [Streamlined testing cascade for HIV](#) (PDF)
  - [Streamlined testing cascade for STIs](#) (PDF)
  - [Streamlined testing cascade for HCV](#) (PDF)
  - [Streamlined testing cascade for LTBI](#) (PDF)
- Screening guidelines from the CDC and USPSTF:
  - [CDC Guidelines and Recommendations](#): Find information on guidelines and recommendations for delivering HIV, viral hepatitis, STD, and TB care.
  - [USPSTF A&B Recommendations](#): This page outlines all of the USPSTF recommendations with a grade of either A or B including screening for HIV, chlamydia and gonorrhea, syphilis, hepatitis B, hepatitis C and latent tuberculosis infection.
- [AMA STEPS Forward Plan-Do-Study-Act (PDSA)](#): This learning module provides an overview of the PDSA approach to quality improvement in your clinic as well as a process mapping toolkit.
- [Recommendations for Providing Quality STD Clinical Services](#): This resource from the CDC highlights the services health care settings can offer to provide the highest-quality STI care to their patients.

- Health Department directories: This resource from the CDC outlines who is working to protect the public's health in your area, including senior health officials, state, local, and territorial health departments, and tribes and Indian organizations. Clinical staff may need to develop relationships with staff in various sections of health departments in order to facilitate reporting, linkage to care or prevention and other critical services.

2. Train care team members to task-shift

Shifting routine screening duties to nurses and medical assistants can answer the patient's need for a personal approach and ensure clinical and non-clinical tasks are distributed efficiently and effectively.

☑ **Related resources** ....

- Sharing and Shifting Tasks to Maintain Essential Healthcare During COVID-19 in Low Resource, non-US settings resource from the CDC: This resource developed by the CDC specifically for maintaining health care during COVID-19 outlines many of the basics of task shifting and task sharing that can be applied across many health care delivery situations.

- Task Shifting: Global Recommendations and Guidelines from the World Health Organization: This resource from provides recommendation and guidance from the World Health Organization on how to redistribute tasks among the health care team in order to make more efficient use of available human resources, especially in workforce shortages, in order to reach more patients with care.

3. Outline funding and reimbursement strategies

Breaking down direct and indirect costs for each element of routine screening and testing, across the health setting's payer mix, will help identify gaps in funding and reimbursement and uncover opportunities for negotiation. Budgeting EHR development, equipment, the cost of tests and staff time for routine screenings will eliminate unknowns and inspire confidence. Additionally, ensuring you are coding services properly for eligible patients will ensure you are reimbursed for the cost of the service and that the patient will not have any out-of-pocket costs.

☑ **Related resources** ....

- Routine screening coding quick guide: This coding guide outlines a list of procedural codes related to HIV, STI, viral hepatitis and tuberculosis screening for both private payer insurance and Medicare and helps you ensure that you are coding services correctly for eligible patient populations to cover the cost of the service, with the patient having no cost-sharing responsibility.
  - Routine screening Medicare coding quick guide (PDF)
  - Routine Screening Toolkit: Private payer coding guide (PDF)
  - ICD-10-CM Codes for Tuberculosis (TB)
  - Screening, Diagnosis, and Treatment of Latent Tuberculosis Infection (LTBI) in Primary Care Settings: Tips for Coding and Billing (PDF)
- Potential resources to cover direct and indirect costs: The following links are listings of available funding opportunities that could help to cover screening related initiatives and associated costs at your clinic.
  - CDC's National Prevention Information Network–Funding Opportunities
  - CDC HIV Funding and Budget resource
  - Rural Health Information Hub–HIV and AIDS Funding Opportunities
  - Grant funding through your state and local health department
- Overview of Cost, Reimbursement, and Cost-Effectiveness Considerations for Hepatitis C Treatment Regimens: This webpage outlines the cost-effectiveness of HCV treatment and care with a section specifically dedicated to the cost effectiveness of screening for HCV.

STEP 5:

Education & post-test counseling

Educating and engaging patients in their care is a critical consideration for how to implement an effective routine screening program. However, lack of care team training or knowledge on infectious disease control contributes to the uneven division of labor, reducing the likelihood of routine screening and causing missteps in follow up and linkage to care.

Some clinicians who lack counseling skills may be intimidated by sharing positive results and thus may skip routine screening all together. Empowering every member of the care team with education and equipping the care team with health coach training can help overcome these concerns. Additionally, having patient friendly education materials can help improve discharge communications.

Critical considerations at this stage

- Knowledge gaps exist across members of the care team who may not know the steps to take or the latest HIV or STI treatments

- Access to patient-centric material to distribute is needed

- Patients do not understand the behaviors associated with HIV, STIs, viral hepatitis or LTBI, especially if they do not identify with the stereotypical population disproportionately affected

- Additional training on how to provide sensitive counseling of post-test results is needed

- Time for clinicians and staff members to effectively communicate results and counsel with respect to the patient's privacy needs to be allocated

Strategies you can implement

1. Empower every member of the care team with education

Providing in-depth, disease-specific education sessions for every member of the care team on the need for routine screening and how to conduct it, engenders greater empathy for the patient and boosts confidence to answer questions rather than deferring to the lead clinician.

☑ **Related resources** ....

Training and education for the care team on HIV, STIs, viral hepatitis and LTBI essentials: The following links are a compilation of education and training resources from the CDC targeted to health care professionals. These training materials can be leveraged to equip your care team members with the latest information to help boost the confidence of any member of the care team in answering patient questions.

- HIV/ AIDS Training for Public Health Professionals from the National Prevention Information Network
- HIV Training Resources
- Hepatitis Training resources from the National Prevention Information Network
- Viral Hepatitis Training Resources
- STD Prevention Training from the National Prevention Information Network
- STD Training Resources
- TB 101 for Health Care Workers
- Core Curriculum on Tuberculosis: What the Clinician Should Know
- TB Centers of Excellence for Training, Education, and Medical Consultation
- LTBI Online Resource Hub
- Find TB Resources
- Tuberculosis Testing and Latent Tuberculosis Infection Treatment Practices Among Health Care Providers — United States, 2020–2022

County-level Syphilis Rates to Direct Screening Efforts: Health care professionals can use this county-level map from the CDC that visualizes primary & secondary syphilis rates as they consider their syphilis screening efforts.

Compendium of Evidence-Based Interventions and Best Practices for HIV Prevention: This webpage from the CDC outlines a collection of HIV interventions in the form of evidence-based and evidence-informed info sheets.

Preventing new HIV Infections: This webpage from the CDC includes both the latest Clinical Practice Guidelines and Clinical Providers' Supplement for using PrEP for the prevention of HIV infection.

National HIV PrEP Curriculum: This free resource was developed at the University of Washington for health care professionals who want to learn about HIV PrEP.

Learn About PrEP: This CDC webpage provides an overview of clinical practice and prescribing guidelines for PrEP for clinicians.

Health Department directories: This resource from the CDC outlines who is working to protect the public's health in your area, including senior health officials, state, local, and territorial health departments, and tribes and Indian organizations. Clinical staff may need to develop relationships with staff in various sections of health departments in order to facilitate reporting, linkage to care or prevention and other critical services.

Step 5: Education & Post-Test Counseling (cont)

2. Have patient education materials available at visit completion

Having patient friendly education materials at discharge is important piece of patient care. Patients should be provided with information about the communicable nature of these infections and consider options for notifying others that were potentially exposed.

☑ **Related resources** ....

Patient Education Materials from the CDC: These links compile downloadable patient education materials from the CDC with resources targeted to different patient demographics and available in multiple languages.

- HIV Consumer Info Sheets
- Viral hepatitis Patient Education Materials
- STI Patient Education Resources from the CDC
  - CDC Fact Sheets
  - Next steps after testing positive for gonorrhea or chlamydia
  - Getting Tested for STIs
  - How to Prevent STIs
- LTBI and TB disease resources
  - Find TB Resources: TB Education & Training from the CDC
  - Tuberculosis Patient & General Public Materials

JAMA Network™ Patient Pages: JAMA Patient Pages are free patient resources designed to distill high-quality evidence and updated guidance from USPSTF into a more accessible patient friendly format to help guide patient decisions. These resources can also be helpful to reference as your clinic or institution develops their own patient-friendly educational resources.

- **HIV**
  - Human Immunodeficiency Virus
  - Who Should Be Screened for HIV Infection?
  - Can HIV Infection Be Prevented With Medication?
  - HIV Infection: The Basics
- **Viral hepatitis**
  - Screening for Hepatitis B in Nonpregnant Adolescents and Adults
  - Screening for Hepatitis B in Pregnant Women
  - Screening for Hepatitis C Virus Infection
  - Treating Hepatitis C
- **STIs**
  - What is Syphilis?
  - Screening for Syphilis in Pregnant Women
  - Screening for Syphilis
  - Screening for Chlamydia and Gonorrhea
- **LTBI**: Screening for Latent Tuberculosis

3. Equip staff with skills to communicate more effectively with patients

In the absence of patient navigators, investing in training and training for the care team on counseling and cultural safety or structural competence can help staff develop skills to communicate more effectively with patients, leading to increased comfort with counseling patients on results.

☑ **Related resources** ....

- AMA STEPS Forward®: Health Coaching: This learning module from AMA STEPS Forward® outlines steps to help you develop and implement a health coaching model in your practice.

- Talking with Your Patients about Latent Tuberculosis (TB) Infection (PDF): A conversation guide for healthcare providers about how to talk to patients about latent TB infection.

- Target HIV Cultural Competency Resources: This webpage includes a collection of guidance, tools and trainings that clinicians can use to identify and address bias to improve communication with diverse patients.

- Cultural Competence in Health and Human Services: This resource from the National Prevention Information Network defines what cultural competence is and how it applies to HIV, viral hepatitis, STI and TB prevention.

VIEW THIS STEP AND ADDITIONAL VIDEO CONTENT ONLINE →

STEP 6:

Linkage to care

The routine screening process does not simply end with diagnosis. Care team members must be confident and clear on next steps after result notification. Some clinics may be able to provide treatment directly, while others may link patients to other care providers. Inadequate linkage to care processes and procedures prevent many clinicians from initiating routine screening. It can be a struggle to obtain reliable patient contact information to follow up with result disclosure.

Without a strong linkage to care infrastructure, positive results fall in the patient's hands, leaving a huge responsibility on the individual to seek and manage treatment, often resulting in the patient being lost to care. Routine screening is also critical for re-linking people previously diagnosed back to care.

Critical considerations at this stage

- Inconsistent patient contact information
- Day-to-day unpredictability with patients in precarious situations
- Multiple follow-ups needed to bring patients back into care
- Patient resistance to initiating long term treatment
- Lack of education on current treatment guidelines among health care professionals

Strategies you can implement

1. Form a strong referral network

A robust referral list can help connect patients with linkage venues that meet their needs including both treatment for a positive diagnosis as well as support for other wrap around services.

Step 6: Linkage to Care (cont)

☑ **Related resources** ....

- **Linkage to care administrative resources**

  - Partnership Mapping Template (PDF): This template provides a framework to help your organization keep track of relationships with non-clinical services and outpatient clinics that will support both community outreach and a sustainable linkage to care program.

  - Tool for Tracking Partners and Partnership Activities: Pages 81-88 from HRSA's Integrating HIV Care, Treatment & Prevention Services into Primary Care–A Toolkit for Health Centers guide includes a Partnership Toolkit that provides a comprehensive list of key considerations, steps, and Partnership-Focused Templates to help guide organizations' relationship building and tracking.

- **Providing or linking to care treatment and prevention resources**

  - Effective Interventions to Treat HIV: This webpage from the CDC outlines resources that are available for the HIV prevention workforce to increase their capacity to link, retain, and re-engage people for HIV care and treatment.

  - Ready, Set, PrEP: Health care professionals and individuals can use this website to learn more about the Ready, Set, PrEP program which provides free PrEP HIV-prevention medications to thousands of people living in the United States, including tribal lands and territories, who qualify.

  - Clinical Guidance for PrEP: This resource from the CDC outlines recommendations, treatment options and considerations for managing patients on PrEP.

  - Sexually Transmitted Infections Treatment Guidelines: CDC's Sexually Transmitted Infections (STI) Treatment Guidelines, 2021 provides current evidence-based prevention, diagnostic and treatment recommendations that replace the 2015 guidance.

  - CDC Guidelines on the use of doxy PEP: This report outlines CDC's recommendation for the use of doxycycline postexposure prophylaxis (doxy PEP) for bacterial sexually transmitted infection prevention.

  - HCV Guidance: Recommendations for Testing, Managing, and Treating Hepatitis C: To provide healthcare professionals with timely guidance, the American Association for the Study of Liver Diseases (AASLD) and the Infectious Diseases Society of America (IDSA) developed this website to facilitate the dissemination of evidence-based, expert-developed recommendations for hepatitis C management.

  - Behavioral Health Treatment Services Locator: This resource from SAHMSA helps connect persons seeking treatment facilities in the United States for substance use and addiction as well as mental health problems.

2. Hire or assign current staff as patient navigators

Patient navigators take on the labor-intensive responsibility of delivering patient education following a positive diagnosis, making multiple follow-up calls and arranging treatment appointments so health care professionals can focus on clinical duties. Hiring a dedicated staff person to take on this role or assigning existing staff to assist with these responsibilities increases the likelihood that patients with a positive diagnosis initiate the appropriate follow up care and treatment.

☑ **Related resources** ....

- HIV Navigation Services – STEPS to Care: This resource from the CDC provides links to trainings designed to improve navigation skills for those delivering prevention services to persons with HIV and HIV-negative persons at risk.

- STEPS to Care: Staffing and Supervision: This resource from the CDC outlines key roles and responsibilities for the patient navigation team including adaptable job description templates and videos that discuss key skills and strengths needed to be a patient navigator.

- HIV Navigation Services Section of the Rapid Antiretroviral Therapy Toolkit: Section 2 (beginning on page 19) of this toolkit developed in partnership by Primary Care Development Corporation, My Brother's Keeper, the San Francisco Community Health Center, and the Denver Prevention Training Center provides an overview of the essential role of HIV navigation services in rapid ART services. It also includes a review of staffing needs and considerations for resource-limited settings, suggested protocols, and real-world examples of how to provide services in resource variable settings.

Implementation Resources

Care Team Member Roles and Responsibilities

All members of a care team have a crucial role to play in navigating patients through the routine screening workflow. This can include pre-test counseling; patient education; and linkage to care and prevention.

BILLING

BENEFITS NAVIGATION

Navigates insurance for routine screening (note: many clinics provide routine screenings free of charge using grant funding to pay for specific tests).

Emergency departments especially may need to assess coverage or refer a patient to a clinic for screening.

NON-CLINICAL

FRONT DESK

Registers patient and provides patient information to triage nurse or patient navigator.

Provides a friendly, welcoming environment and is representative of the community being served. This is especially crucial in clinic settings.

PATIENT NAVIGATION

Meets patient at reception and stays connected with them throughout their care.

Typically, closer to patient's age, representative of patient population.

Takes on nonclinical tasks to relieve providers, including pre-test counseling, patient education and linkage to care; also can provide results.

SOCIAL WORKER

Links patients to support services, as needed, including domestic violence and mental health.

Key to ensuring patients stay in care. Often, patients need help meeting basic needs that allow them to remain connected to care.

CLINICAL

NURSE

May meet with patient in room first and may obtain screening consent.

Provides post-screening treatment or vaccinations.

May provide results

PROVIDER (NP/PHYSICIAN)

Offers screening and obtains patient consent/opt-out.

Conducts necessary physical examinations, orders screening.

Typically provides results

MEDICAL ASSISTANT

Draws blood to complete screening process.

May provide results

Clinical Workflow Algorithm
HIV Screening

This document translates screening guidance and clinical considerations from the USPSTF and CDC into a decision tree format to guide implementation.

WHO TO SCREEN ①

— Adolescents and adults aged 15 to 65 years
— All pregnant persons
— Adolescents younger than 15 years and adults older than 65 years at increased risk

If screening criteria are met

Risk factors ②

— Male-to-male sexual contact
— Injection drug use
— Having anal intercourse without a condom, having vaginal intercourse without a condom and with more than one partner whose HIV status is unknown
— Exchanging sex for drugs or money (transactional sex)
— Having other STIs or a sex partner with an STI
— Having a sex partner who is living with HIV or is in a high-risk category
— Persons who request testing for STIs, including HIV, are also considered at increased risk

TEST TO USE

Antigen/antibody immunoassay approved by the FDA that detects HIV-1 and HIV-2 antibodies and the HIV-1 p24 antigen

REACTIVE

Supplemental testing to differentiate between HIV-1 and HIV-2 antibodies

NONREACTIVE

REACTIVE ③ ⑤

Provide counseling and link to treatment.

Nonreactive/ indeterminate or if acute ④ HIV infection or recent exposure is suspected or reported, an **HIV-1 nucleic acid test** is recommended to differentiate acute HIV-1 infection from a false-positive test result.

NEGATIVE

IMPLEMENTATION CONSIDERATIONS

① **Test frequency**
At least once as a part of routine care. Repeat screening is reasonable for persons known to be at increased risk of HIV infection.

Pregnant people may be tested twice, once when they first present to care and a second time in the third trimester.

② **Risk assessment**
Needed for those outside the universal screening age of 15 to 65 and to determine ongoing risk.

③ **Link to treatment**
Early initiation of antiretroviral therapy (ART) and other interventions effectively reduce the risk of clinical progression to AIDS.

④ **Equivocal results**
Consider using a different validated supplemental HIV-1 or HIV-2 test (antibody test and/or NAT) if available. Alternatively, redraw and repeat algorithm in two to four weeks.

⑤ **Case reporting**
Report positive case to state or local health department.

Last updated 10/31/2024

Clinical Workflow Algorithm
Syphilis Screening

This document translates screening guidance and clinical considerations from the USPSTF and CDC into a decision tree format to guide implementation.

WHO TO SCREEN ①
— Adolescents and adults who have ever been sexually active and are at increased risk for syphilis infection
— All pregnant persons

Risk factors
— Men who have sex with men (MSM)
— Persons with HIV or other STIs
— Persons who use illicit drugs
— History of incarceration, sex work, or military service
— Prevalence of infection in community
— Persons with a history of incarceration, sex work, or military service
— Young adults

If screening criteria are met

TEST TO USE

Traditional Screening Algorithm
Nontreponemal test (e.g., Venereal Disease Research Laboratory [VDRL] or rapid plasma reagin [RPR])

OR

Reverse Sequence Algorithm
Automated treponemal test (e.g., enzyme-linked [EIA] or chemiluminescence immunoassay [CIA])

REACTIVE
Conduct confirmatory test: Treponemal antibody detection test (e.g., fluorescent treponemal antibody absorption [FTA-ABS] or T. pallidum particle agglutination [TP-PA] test)

NONREACTIVE
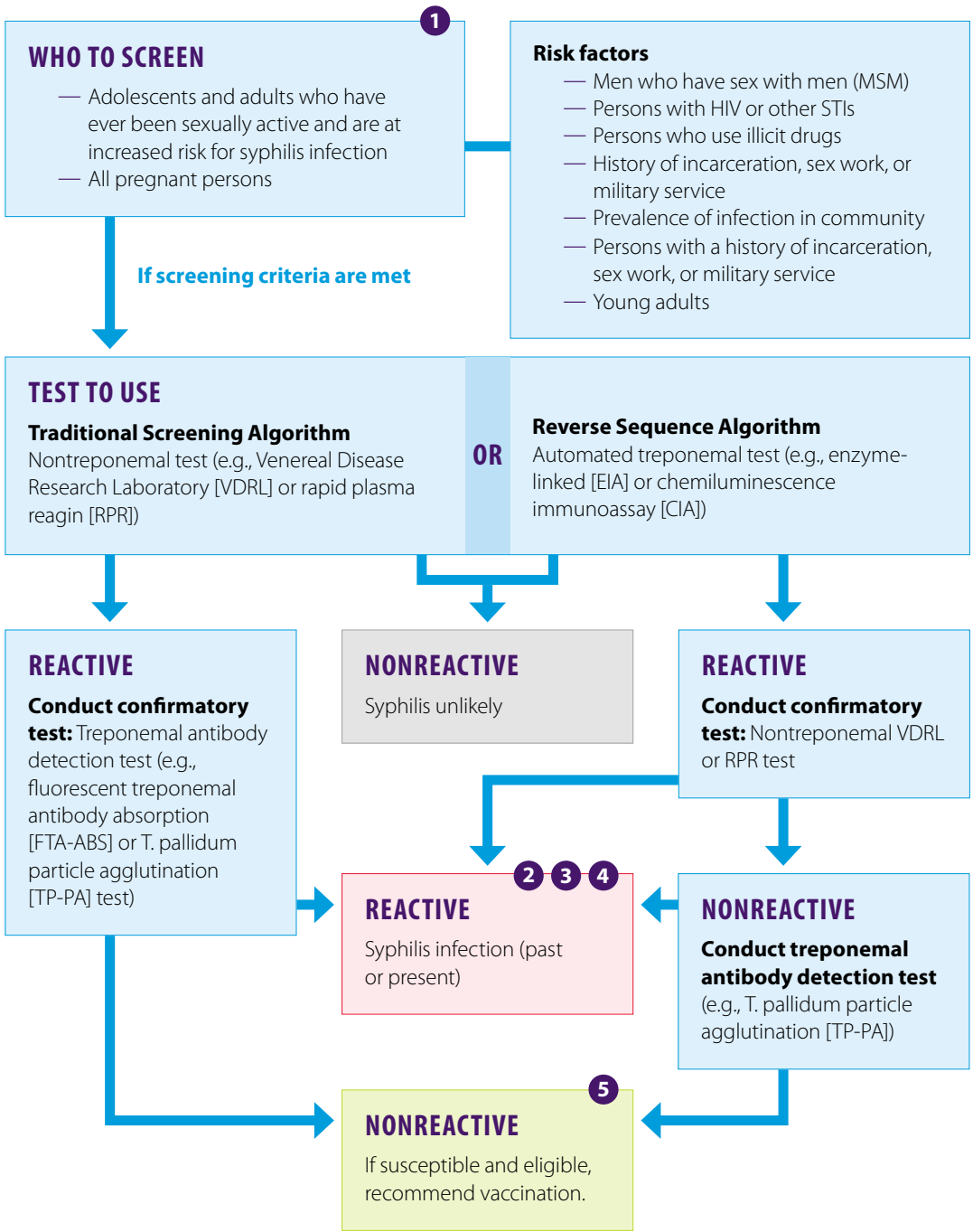Syphilis unlikely

REACTIVE
Conduct confirmatory test: Nontreponemal VDRL or RPR test

REACTIVE ② ③ ④
Syphilis infection (past or present)

NONREACTIVE
Conduct treponemal antibody detection test (e.g., T. pallidum particle agglutination [TP-PA])

NONREACTIVE ⑤
If susceptible and eligible, recommend vaccination.

IMPLEMENTATION CONSIDERATIONS

① **Test frequency**
MSM or persons with HIV may benefit from screening at least annually or more frequently (e.g., every 3 to 6 months) if they continue to be at high risk.

For pregnant persons, screen at first prenatal visit. Individuals who have not received prenatal care should be tested at the time they present for delivery.

② **Case reporting**
Report positive case to state or local health department.

③ **Past infection**
An RPR comparison to former values may be needed if there's a history of prior disease.

④ **Treatment**
Penicillin G, administered parenterally, is the preferred drug for treating patients in all stages of syphilis.

See: https://www.cdc.gov/std/treatment-guidelines/syphilis.htm

⑤ **Further evaluation**
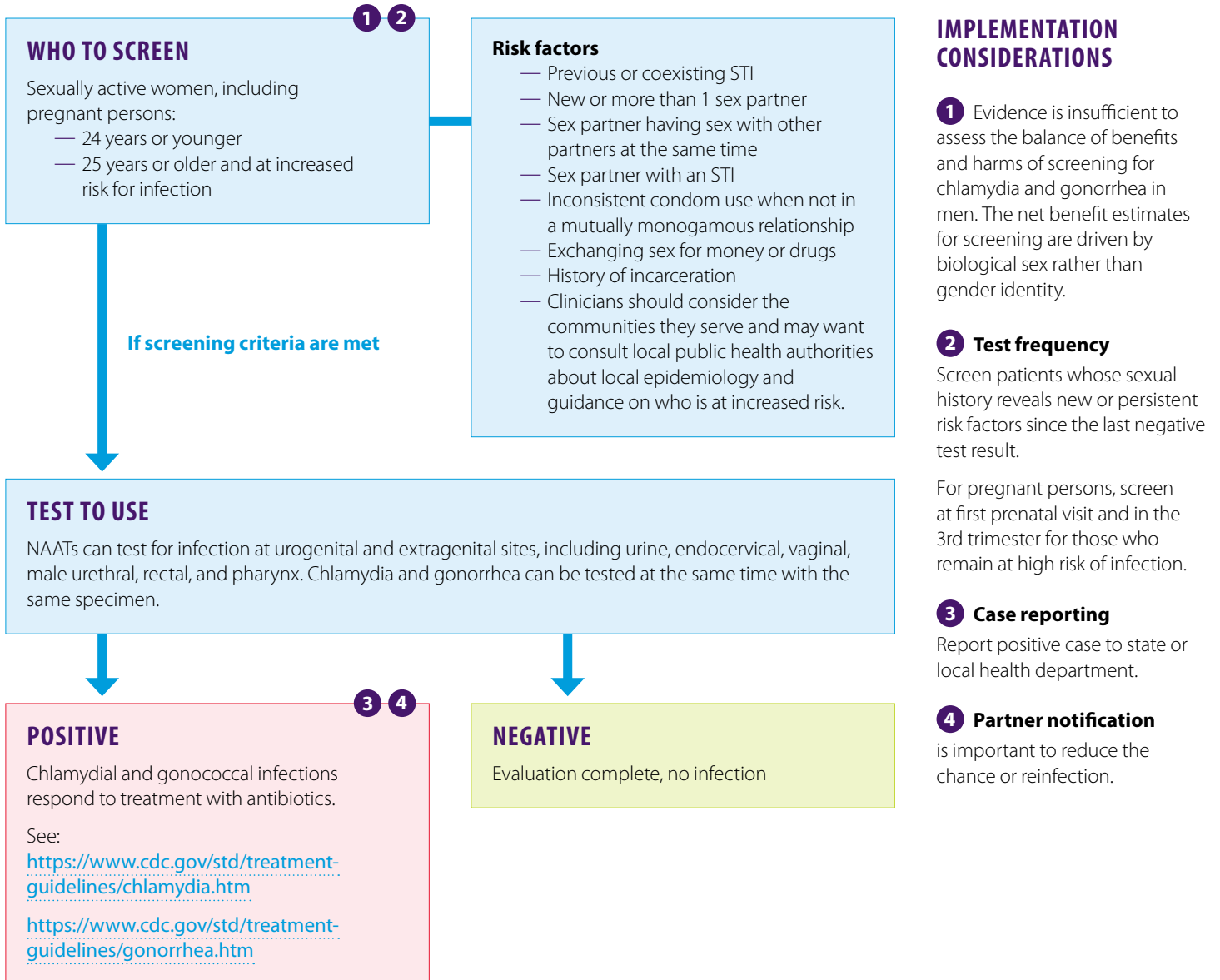If at risk of infection, repeat RPR in several weeks.

If epidemiologic risk and clinical probability for syphilis are low, further evaluation or treatment is not indicated.

Last updated 10/31/2024

Clinical Workflow Algorithm

Chlamydia and Gonorrhea Screening

This document translates screening guidance and clinical considerations from the USPSTF and CDC into a decision tree format to guide implementation.

WHO TO SCREEN ❶❷

Sexually active women, including pregnant persons:
— 24 years or younger
— 25 years or older and at increased risk for infection

Risk factors
— Previous or coexisting STI
— New or more than 1 sex partner
— Sex partner having sex with other partners at the same time
— Sex partner with an STI
— Inconsistent condom use when not in a mutually monogamous relationship
— Exchanging sex for money or drugs
— History of incarceration
— Clinicians should consider the communities they serve and may want to consult local public health authorities about local epidemiology and guidance on who is at increased risk.

If screening criteria are met

TEST TO USE

NAATs can test for infection at urogenital and extragenital sites, including urine, endocervical, vaginal, male urethral, rectal, and pharynx. Chlamydia and gonorrhea can be tested at the same time with the same specimen.

POSITIVE ❸❹

Chlamydial and gonococcal infections respond to treatment with antibiotics.

See:
https://www.cdc.gov/std/treatment-guidelines/chlamydia.htm

https://www.cdc.gov/std/treatment-guidelines/gonorrhea.htm

NEGATIVE

Evaluation complete, no infection

IMPLEMENTATION CONSIDERATIONS

❶ Evidence is insufficient to assess the balance of benefits and harms of screening for chlamydia and gonorrhea in men. The net benefit estimates for screening are driven by biological sex rather than gender identity.

❷ **Test frequency**
Screen patients whose sexual history reveals new or persistent risk factors since the last negative test result.

For pregnant persons, screen at first prenatal visit and in the 3rd trimester for those who remain at high risk of infection.

❸ **Case reporting**
Report positive case to state or local health department.

❹ **Partner notification**
is important to reduce the chance or reinfection.

Clinical Workflow Algorithm
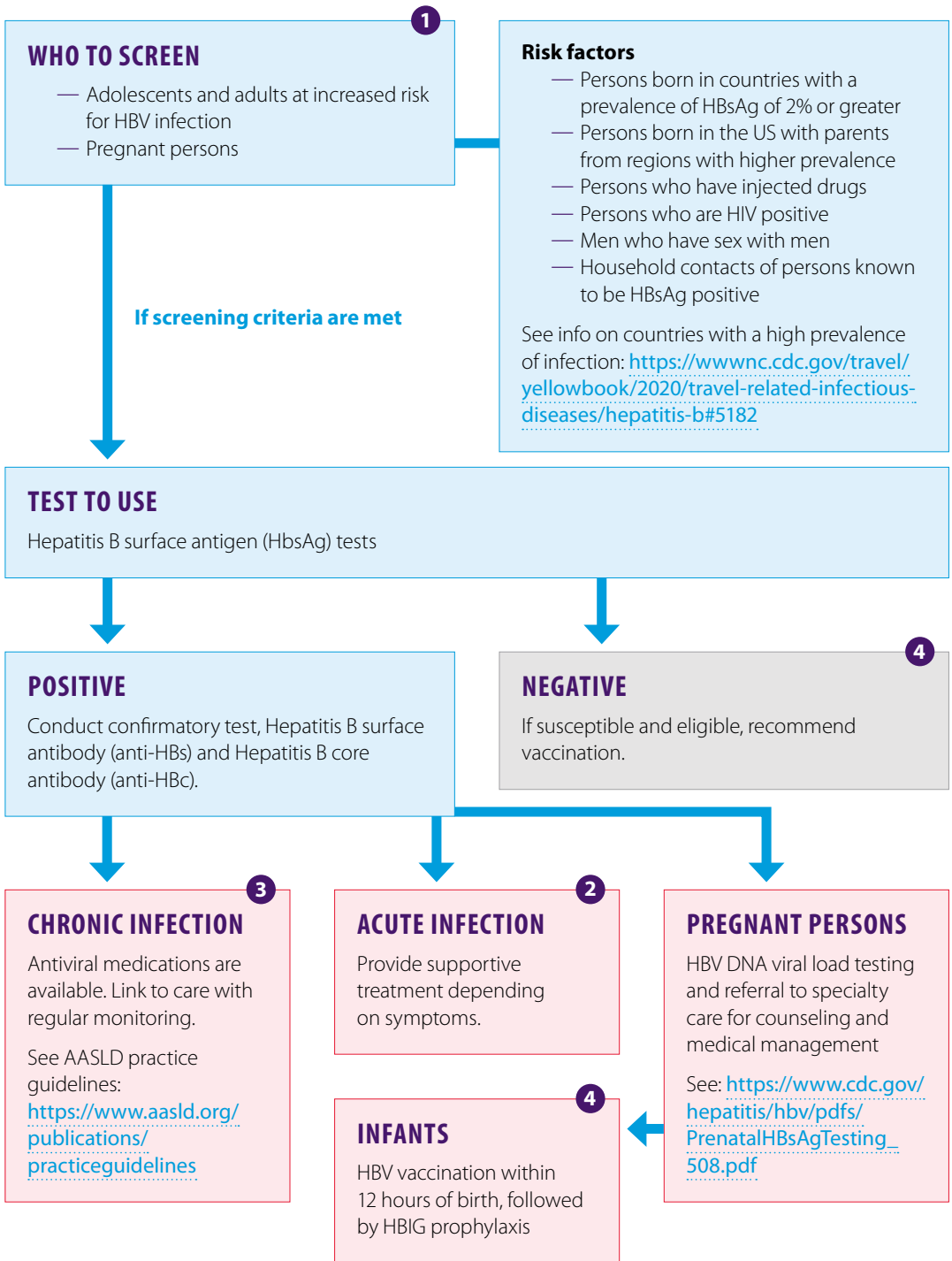## Hepatitis B (HBV) Screening

This document translates screening guidance and clinical considerations from the USPSTF and CDC into a decision tree format to guide implementation.

WHO TO SCREEN ①
— Adolescents and adults at increased risk for HBV infection
— Pregnant persons

Risk factors
— Persons born in countries with a prevalence of HBsAg of 2% or greater
— Persons born in the US with parents from regions with higher prevalence
— Persons who have injected drugs
— Persons who are HIV positive
— Men who have sex with men
— Household contacts of persons known to be HBsAg positive

See info on countries with a high prevalence of infection: https://wwwnc.cdc.gov/travel/yellowbook/2020/travel-related-infectious-diseases/hepatitis-b#5182

If screening criteria are met

TEST TO USE
Hepatitis B surface antigen (HbsAg) tests

POSITIVE
Conduct confirmatory test, Hepatitis B surface antibody (anti-HBs) and Hepatitis B core antibody (anti-HBc).

NEGATIVE ④
If susceptible and eligible, recommend vaccination.

CHRONIC INFECTION ③
Antiviral medications are available. Link to care with regular monitoring.
See AASLD practice guidelines:
https://www.aasld.org/publications/practiceguidelines

ACUTE INFECTION ②
Provide supportive treatment depending on symptoms.

PREGNANT PERSONS
HBV DNA viral load testing and referral to specialty care for counseling and medical management
See: https://www.cdc.gov/hepatitis/hbv/pdfs/PrenatalHBsAgTesting_508.pdf

INFANTS ④
HBV vaccination within 12 hours of birth, followed by HBIG prophylaxis

IMPLEMENTATION CONSIDERATIONS

① **Test frequency**
Periodically screen persons with continued risk for HBV infection.

Pregnant persons should be tested at first prenatal visit, for each pregnancy, and those with unknown HBsAg status or risk factors for HBV infection should be screened at admission for delivery.

② **Acute infection**
• HBsAg positive
• Anti-HBc positive
• IgM anti-HBc positive
• Anti-HBs negative.

③ **Chronic infection**
• HBsAg positive
• Anti-HBc positive
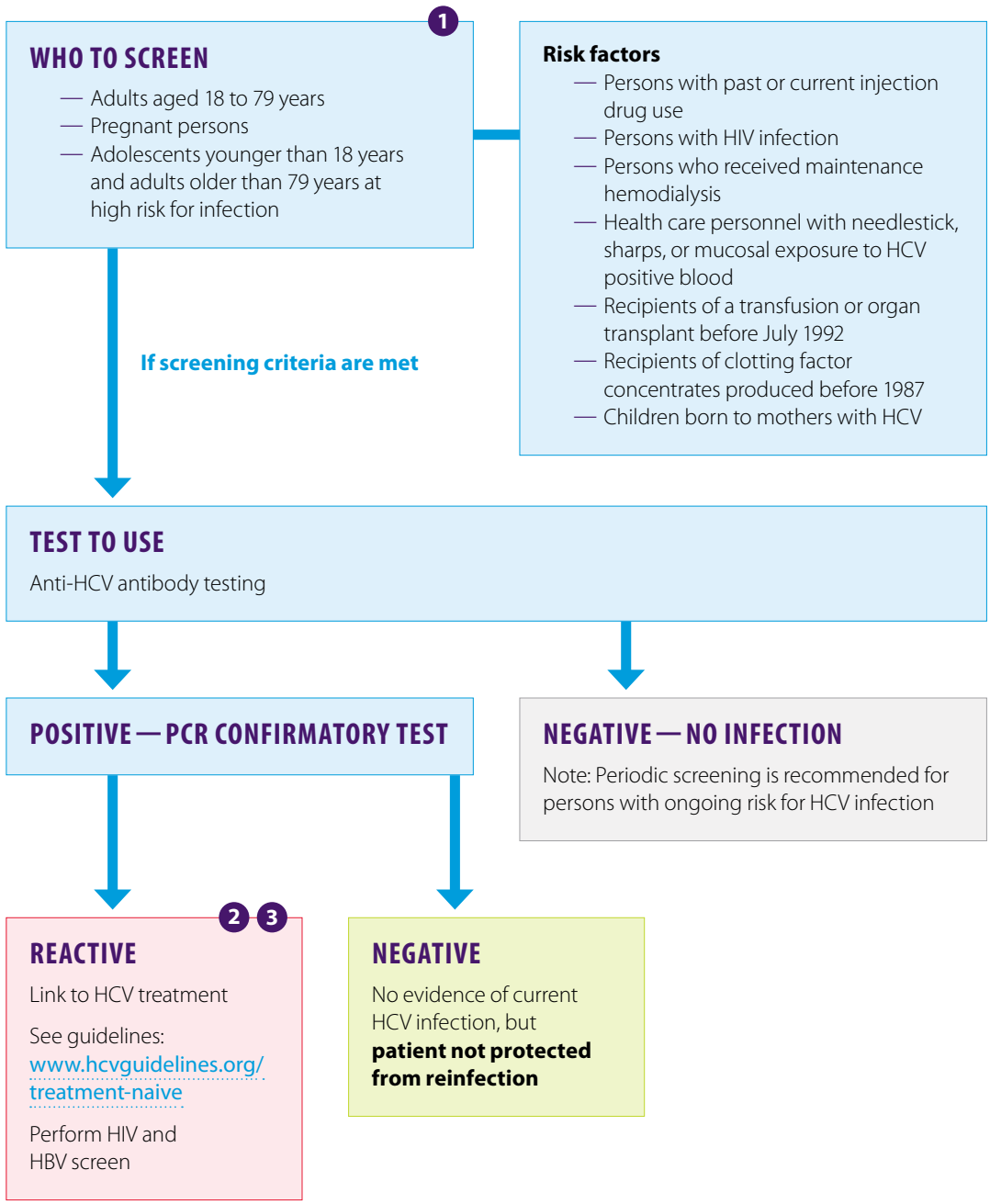• IgM anti-HBc negative
• Anti-HBs negative

④ **ACIP HBV vaccine recommendations**
The HBV vaccine is recommended for all infants, all children or adolescents younger than 19 who have not been vaccinated, all adults age 19 through 59 years, and adults age 60 years or older with risk factors for infection.

Adults who are 60+ without known risk factors may also receive the vaccine.

See:
https://www.cdc.gov/mmwr/volumes/67/rr/rr6701a1.htm

Last updated 10/31/2024

AMA

Clinical Workflow Algorithm

Hepatitis C (HCV) Screening

This document translates screening guidance and clinical considerations from the USPSTF and CDC into a decision tree format to guide implementation.
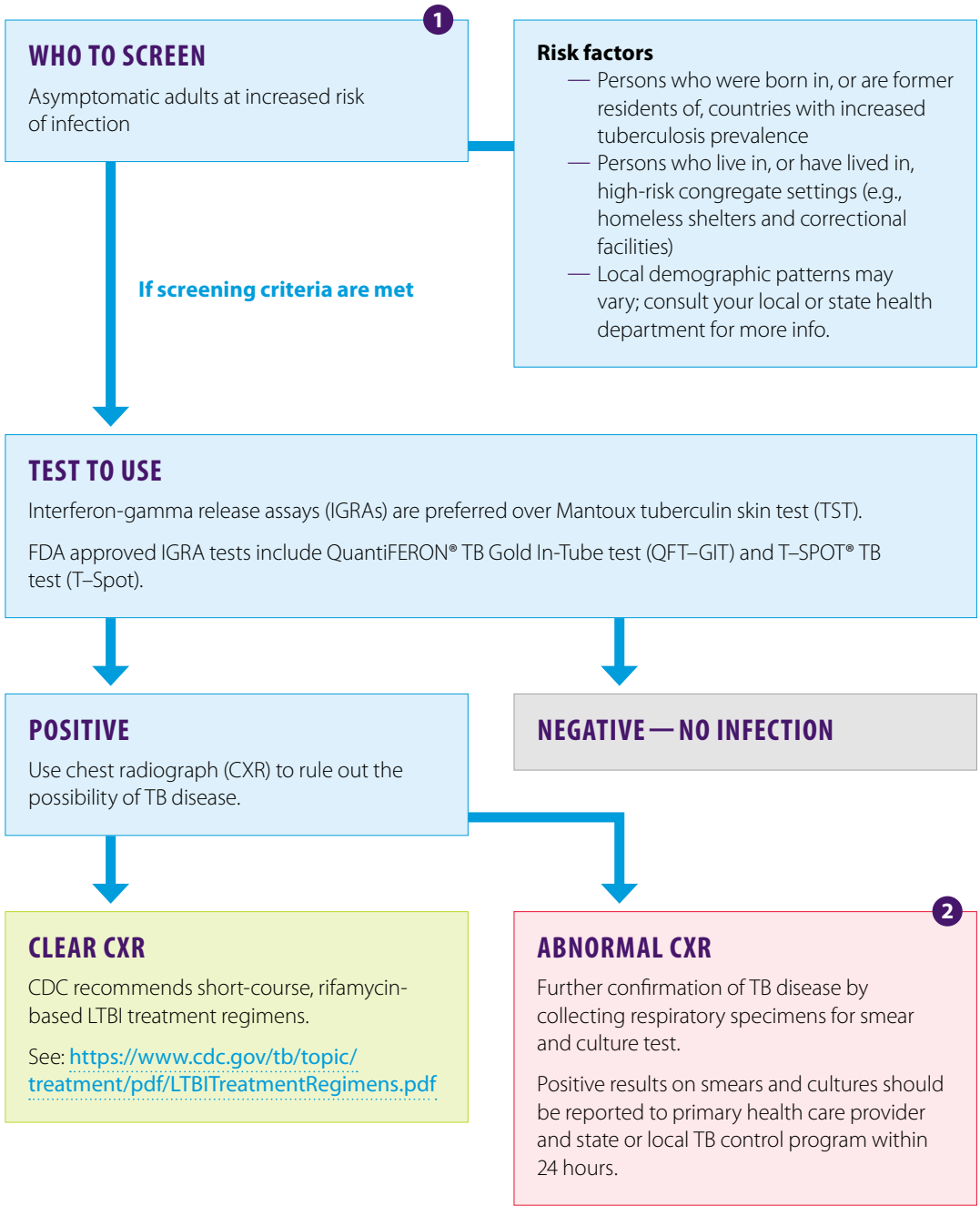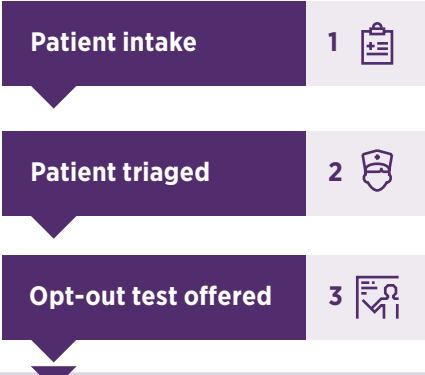
WHO TO SCREEN ①

— Adults aged 18 to 79 years
— Pregnant persons
— Adolescents younger than 18 years and adults older than 79 years at high risk for infection

If screening criteria are met

Risk factors

— Persons with past or current injection drug use
— Persons with HIV infection
— Persons who received maintenance hemodialysis
— Health care personnel with needlestick, sharps, or mucosal exposure to HCV positive blood
— Recipients of a transfusion or organ transplant before July 1992
— Recipients of clotting factor concentrates produced before 1987
— Children born to mothers with HCV

TEST TO USE

Anti-HCV antibody testing

POSITIVE — PCR CONFIRMATORY TEST

NEGATIVE — NO INFECTION

Note: Periodic screening is recommended for persons with ongoing risk for HCV infection

REACTIVE ② ③

Link to HCV treatment

See guidelines:
www.hcvguidelines.org/treatment-naive

Perform HIV and HBV screen

NEGATIVE

No evidence of current HCV infection, but **patient not protected from reinfection**

IMPLEMENTATION CONSIDERATIONS

① **Test frequency**
One-time screening for most adults and for each pregnancy. Periodic screening for persons with continued risk for HCV infection.

② **Treatment**
Ensure patient knows that safe and highly effective treatment is available for hepatitis C.

③ **Case reporting**
Report positive cases to public health agency.

Last updated 10/31/2024

Clinical Workflow Algorithm
Latent Tuberculosis Infection (LTBI) Screening

This document translates screening guidance and clinical considerations from the USPSTF and CDC into a decision tree format to guide implementation.

① WHO TO SCREEN

Asymptomatic adults at increased risk of infection

Risk factors
— Persons who were born in, or are former residents of, countries with increased tuberculosis prevalence
— Persons who live in, or have lived in, high-risk congregate settings (e.g., homeless shelters and correctional facilities)
— Local demographic patterns may vary; consult your local or state health department for more info.

If screening criteria are met

TEST TO USE

Interferon-gamma release assays (IGRAs) are preferred over Mantoux tuberculin skin test (TST).

FDA approved IGRA tests include QuantiFERON® TB Gold In-Tube test (QFT–GIT) and T–SPOT® TB test (T–Spot).

POSITIVE

Use chest radiograph (CXR) to rule out the possibility of TB disease.

NEGATIVE — NO INFECTION

CLEAR CXR

CDC recommends short-course, rifamycin-based LTBI treatment regimens.

See: https://www.cdc.gov/tb/topic/treatment/pdf/LTBITreatmentRegimens.pdf

② ABNORMAL CXR

Further confirmation of TB disease by collecting respiratory specimens for smear and culture test.

Positive results on smears and cultures should be reported to primary health care provider and state or local TB control program within 24 hours.

IMPLEMENTATION CONSIDERATIONS

① Test frequency
One time testing for those with risk factors for infection. At clinician discretion, more frequent testing may be recommended based on known continuous or new exposures.

② Connect with local health department
for guidance on additional testing to confirm diagnosis, when referral to an ID provider should take place, and when reporting of a positive test result should be made in your jurisdiction.

Last updated 10/31/2024

Community Health Center HIV Workflow Solutions

PRE-ROUTINE SCREENING — Patient engagement and screening preparedness

Patient intake	1
Patient triaged	2
Opt-out test offered	3

OPPORTUNITIES TO OPTIMIZE

1. **Link self-risk assessment to EHR** which helps reduce care team member discomfort in asking sexual history or drug use questions, as well as patient discomfort with privacy. Self-risk assessment provides efficiency in obtaining information that will help determine what type of testing should be offered and what intervention or referral the patient may need to support health maintenance.

2. **Leverage patient navigator** as a non-clinical care team member role to ensure follow-through of testing process (results, linkage to care, etc.). They can also conduct pre-test counseling if mandated by state.

3. **Employ EHR pop-up reminders** for provider to order test during visit with patient. A hard-stop reminder ensures they cannot continue without ordering.

ROUTINE SCREENING — Test performed and results communicated
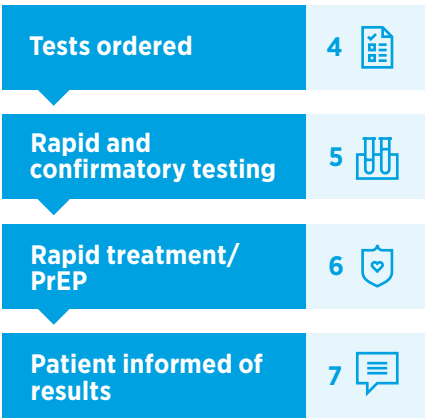
Tests ordered	4
Rapid and confirmatory testing	5
Rapid treatment/ PrEP	6
Patient informed of results	7

OPPORTUNITIES TO OPTIMIZE

4. **Bundle tests,** as patients who qualify for routine screening for HIV may also need other routine tests. Order sets useful at this stage to easily identify which tests should be bundled.

5. **Order rapid and confirmatory tests together** so patient doesn't need to come in twice, reducing burden on care team and patient.

6. **Initiate rapid ART if new infection is assumed,** or same-day/rapid-start ART or PrEP if patient meets certain risk criteria to minimize loss to follow-up

7. **Outline clear delineation of care team role in delivering result.** Locations where providers lack time can have patient navigators take on this role.

FOLLOWING UP — Confirmatory testing and linkage to care, treatment and prevention

POSITIVE RESULT

Report result to local health department	8+
Linked to care	9+
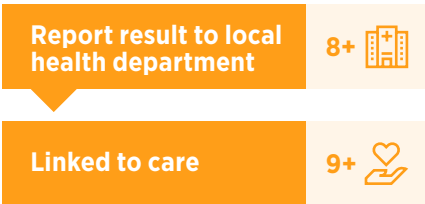
OPPORTUNITIES TO OPTIMIZE

8+. **Report to local health department** if confirmatory test is positive

9+. **Use Anti-Retroviral Treatment and Access to Services (ARTAS)** to link client to care, aiming to encourage establishment of an effective working relationship with a care Linkage Coordinator.

NEGATIVE RESULT

Post-test counseling/ education	8-
Linked to prevention	9-
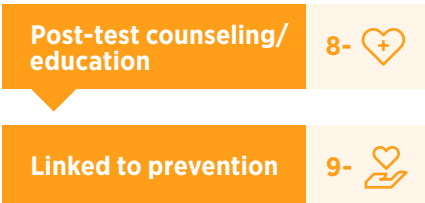
8-. **Engage in post-test counseling and education** with patient who tests negative, led by Patient Navigator.

9-. **Link patient** to appropriate prevention services
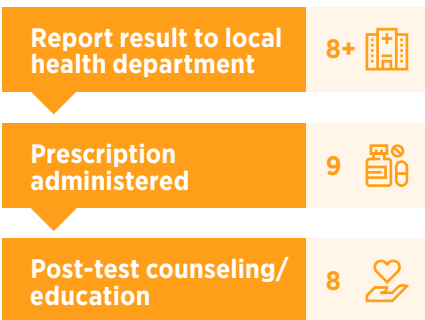
Community Health Center STI Workflow Solutions

PRE-ROUTINE SCREENING — Patient engagement and screening preparedness

Step	
Patient intake	1
Patient triaged	2
Opt-out test offered	3

OPPORTUNITIES TO OPTIMIZE

1. **Link self-risk assessment to EHR** which helps reduce care team member discomfort in asking sexual history or drug use questions, as well as patient discomfort with privacy. Self-risk assessment provides efficiency in obtaining information that will help determine what type of testing should be offered and what intervention or referral the patient may need to support health maintenance.

2. **Conduct nurse or MA-driven risk assessments involving a chart review.** This can create a more personable, trusting experience for clients, include some patient education, and unburden work for physicians. However, they take more time to complete than a self-risk assessment.

3. **Implement opt-out testing,** when allowed by state statutes, in order to make screening a routine part of clinical services, saving time as well as patient or provider discomfort.

ROUTINE SCREENING — Test performed and results communicated
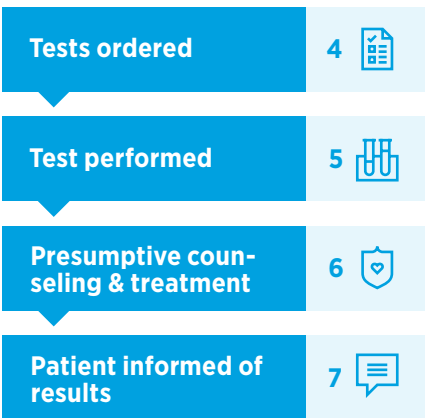
Step	
Tests ordered	4
Test performed	5
Presumptive counseling & treatment	6
Patient informed of results	7

OPPORTUNITIES TO OPTIMIZE

4. **Bundle tests,** as patients who qualify for routine screening for STIs may also need other routine tests. Order sets useful at this stage to easily identify which tests should be bundled.

6. **Offer presumptive counseling or treatment** before results if patient meets certain risk criteria to minimize loss to follow-up

7. **Outline clear delineation of care team roles in delivering results.** Locations where providers lack time can have patient navigators take on this role.

FOLLOWING UP — Confirmatory testing and linkage to care, treatment and prevention

POSITIVE RESULT

Step	
Report result to local health department	8+
Prescription administered	9
Post-test counseling/education	8

OPPORTUNITIES TO OPTIMIZE

8+. **Report to local health department** if confirmatory test is positive

9. **Outline clear delineation of roles for prescription administration** to ensure patient receives treatment ordered.

10. **Link patient back to care** if confirmatory test or additional examination is needed. The team follows-up with patient and ensures they attend their next appointment.

NEGATIVE RESULT

Step	
Post-test counseling/education	8-

Community Health Center HCV Workflow Solutions

PRE-ROUTINE SCREENING — Patient engagement and screening preparedness

Step	
Patient intake	1
Patient triaged	2
Opt-out test offered	3
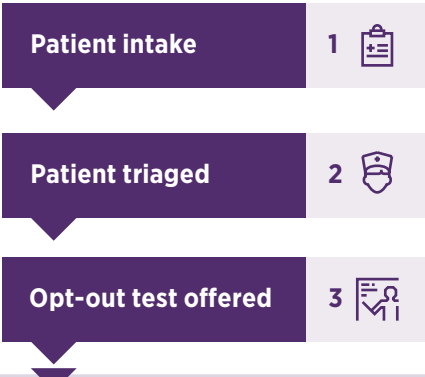
OPPORTUNITIES TO OPTIMIZE

1. **Include consent for HCV in the general consent for care** which patients sign upon initiating their visit. Opt-out consent can be performed at blood draw.
2. **Employ EHR pop-up reminder to screen if patient meets the algorithm criteria** (age 18-79, no prior HCV test) during patient triage led by medical assistant or nurse.
3. **Offer opt-out test** at which point the triage provider has to actively accept order placement. The EHR Opt-Out button can include opt-out language to relay to patient.

ROUTINE SCREENING — Test performed and results communicated

Step	
Tests ordered	4
Rapid testing	5
Patient informed of results	6
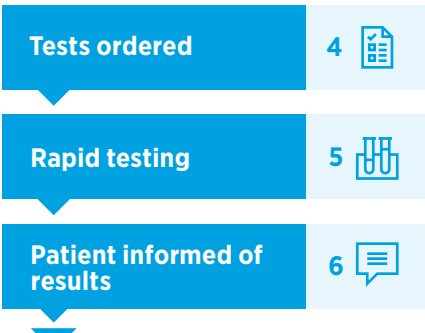
OPPORTUNITIES TO OPTIMIZE

4. **Bundle tests at blood draw** depending on patient's needs. Relative to the clinic infrastructure, the provider may see the patient, accept the order, and send patient to in-house lab for a test.
5. **Order rapid and confirmatory tests together** so patient does not need to have blood drawn twice, reducing burden on care team and patient.
6. **Outline clear delineation of care team roles in delivering results.** Locations where providers lack time can have patient navigators take on this role.

FOLLOWING UP — Confirmatory testing and linkage to care, treatment and prevention

POSITIVE RESULT

Step	
Risk assessment	7
Confirmatory testing	8
Report result to local health department	9
Linked to prevention	10

OPPORTUNITIES TO OPTIMIZE

7. **Conduct risk assessment of clinical factors,** such as co-morbidities if patient tests positive.
8. **Employ reflex RNA confirmatory tests** to help streamline the process; rapid and confirmatory testing can be done on single tube of blood if lab can conduct validation studies.
9. **Report to local health department** if confirmatory test is positive.
10. **Leverage Patient Navigators to help follow-up** on confirmatory testing, disclose confirmatory results, and link patients to specialty clinic for treatment.

Community Health Center LTBI Workflow Solutions

PRE-ROUTINE SCREENING — Patient engagement and screening preparedness

Patient intake	1
Patient triaged	2
Contact local health department	3
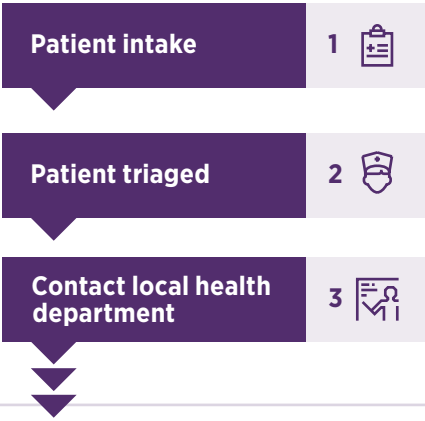
OPPORTUNITIES TO OPTIMIZE

1. **Utilize patient intake survey or questionnaire** to help flag risk factors early on. It is crucial to get patient contact information in case they need to be called back in for a chest X-ray (CXR).

2. **Conduct review of the patient's chart and medical history questions,** led by patient triage provider. TB should be included with other immunizations needed for refugee health. A pre-populated EHR screening tool can standardize this process and automatically order the test if the patient meets the criteria, removing steps for the care team.

3. **Contact local health department immediately if the patient is symptomatic.** Active TB symptoms that are otherwise unexplained include a cough for more than 2-3 weeks, fevers, night sweats, weight loss and hemoptysis.

ROUTINE SCREENING — Test performed and results communicated

Testing	4
Patient informed of results	5
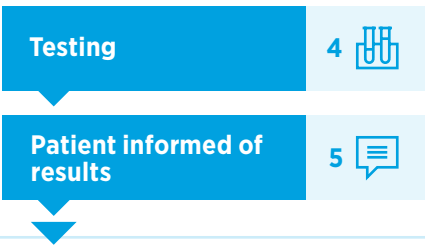
OPPORTUNITIES TO OPTIMIZE

4. **Utilize IGRA blood test** which is recommended for asymptomatic testing, particularly for non-US-born patients. The local health department should be contacted if there is trouble with interpretation of the test.

5. **Outline clear delineation of care team role in delivering results.** Locations where providers lack time can have medical assistants or patient navigators disclose results to patients over the phone.

FOLLOWING UP — Confirmatory testing and linkage to care, treatment and prevention

POSITIVE RESULT

Recall patient to clinic	6
CXR and medical evaluation	7
Report result to local health department	8
Counsel and initiate treatment	9

OPPORTUNITIES TO OPTIMIZE

6. **Recall patient to the clinic** when informing them of a positive test.

7. **Leverage medical assistants to perform CXR** in order to unburden provider.

8. **Contact local health department** right away if there is an abnormal film or the patient is symptomatic.

9. **Counsel and educate patient on what TB is and initiate a preferred treatment regimen** if active TB is ruled out by patient being asymptomatic and having a normal CXR.*

*Treatment regimens for latent TB infection: https://www.cdc.gov/tb/topic/treatment/ltbi.htm

AMA

Medicare Coding Guide

Due to the Affordable Care Act (ACA), when physicians order certain evidence-based preventive services for patients, the insurance company may cover the cost of the service, with the patient having no cost-sharing responsibility (zero-dollar). The ACA requires that most private insurance plans provide zero-dollar coverage for the preventive services recommended by four ACA designated organizations (the U.S. Preventive Services Task Force [USPSTF], the Advisory Committee on Immunization Practices [ACIP], Women's Preventive Services Initiative, and Bright Futures).

As coverage is directly aligned with these evidence-based recommendations, it is important to recognize which patient populations are eligible for each preventive service without cost-sharing and which patients may require cost-sharing for the same services. This "Medicare coding guide" helps physicians ensure that they are coding services correctly to be eligible for zero-dollar coverage. **Click here for more information.**

Below is a list of procedural codes related to HIV, STIs, viral hepatitis and latent tuberculosis infection screening that may be applicable in your clinical practice. The information provided does not make recommendations for the specific tests that need to be ordered.

HIV ···

HIV screening

Coverage guidance: Certain Medicare beneficiaries without regard to perceived risk or who are at increased risk for HIV infection, including anyone who asks for the test, or pregnant persons.

CPT® code	Code descriptor	Co-pay/ coinsurance waived (Yes/No)?	Deductible waived (Yes/No)?
80081	Obstetric panel (includes HIV testing) This panel must include the following: Blood count, complete (CBC), and automated differential WBC count (85025 or 85027 and 85004) OR Blood count, complete (CBC), automated (85027) and appropriate manual differential WBC count (85007 or 85009) Hepatitis B surface antigen (HBsAg) (87340) HIV-1 antigen(s), with HIV-1 and HIV-2 antibodies, single result (87389) Antibody, rubella (86762) Syphilis test, non-treponemal antibody; qualitative (e.g., VDRL, RPR, ART) (86592) Antibody screen, RBC, each serum technique (86850) Blood typing, ABO (86900) AND Blood typing, Rh (D) (86901)	YES	YES

HCPCS code	Code descriptor	Co-pay/ coinsurance waived (Yes/No)?	Deductible waived (Yes/No)?
G0432	Infectious agent antibody detection by enzyme immunoassay (eia) technique, HIV-1 and/or HIV-2, screening	YES	YES
G0433	Infectious agent antibody detection by enzyme-linked immunosorbent assay (elisa) technique, HIV-1 and/or HIV-2, screening	YES	YES
G0435	Infectious agent antibody detection by rapid antibody test, HIV-1 and/or HIV-2, screening	YES	YES
G0475	HIV antigen/antibody, combination assay, screening	YES	YES

Medicare Coding Guide

STIs ···

Screening for STIs and high intensity behavioral counseling to prevent STIs

Coverage guidance: Certain Medicare beneficiaries when all of the following are true:

- Sexually active adolescents and adults at increased risk for STIs

- Referred for this service by a primary care provider and provided by a Medicare-eligible primary care provider in a primary care setting

CPT® code	Code descriptor	Co-pay/ coinsurance waived (Yes/No)?	Deductible waived (Yes/No)?
86631	Antibody; Chlamydia	YES	YES
86632	Antibody; Chlamydia, IgM	YES	YES
87110	Culture, chlamydia, any source	YES	YES
87270	Infectious agent antigen detection by immunofluorescent technique; Chlamydia trachomatis	YES	YES
87320	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzymelinked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; Chlamydia trachomatis	YES	YES
87490	Infectious agent detection by nucleic acid (DNA or RNA); Chlamydia trachomatis, direct probe technique	YES	YES
87491	Infectious agent detection by nucleic acid (DNA or RNA); Chlamydia trachomatis, amplified probe technique	YES	YES
87810	Infectious agent antigen detection by immunoassay with direct optical (i.e., visual) observation; Chlamydia trachomatis	YES	YES
87800	Infectious agent detection by nucleic acid (DNA or RNA), multiple organisms; direct probe(s) technique	YES	YES
87590	Infectious agent detection by nucleic acid (DNA or RNA); Neisseria gonorrhoeae, direct probe technique	YES	YES
87591	Infectious agent detection by nucleic acid (DNA or RNA); Neisseria gonorrhoeae, amplified probe technique	YES	YES
87850	Infectious agent antigen detection by immunoassay with direct optical (i.e., visual) observation; Neisseria gonorrhoeae	YES	YES
86592	Syphilis test, non-treponemal antibody; qualitative (e.g., VDRL, RPR, ART)	YES	YES
86593	Syphilis test, non-treponemal antibody; quantitative	YES	YES
86780	Antibody; Treponema pallidum	YES	YES
87340	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzymelinked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; hepatitis B surface antigen (HBsAg)	YES	YES
87341	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzymelinked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; hepatitis B surface antigen (HBsAg) neutralization	YES	YES

Medicare Coding Guide

Screening for STIs and high intensity behavioral counseling to prevent STIs (continued)

HCPCS code	Code descriptor	Co-pay/ coinsurance waived (Yes/No)?	Deductible waived (Yes/No)?
G0445	High intensity behavioral counseling to prevent sexually transmitted infection; face-to-face, individual, includes: education, skills training and guidance on how to change sexual behavior; performed semiannually, 30 minutes	YES	YES

VIRAL HEPATITIS ··

Hepatitis B virus (HBV) screening

Coverage guidance: Certain Medicare beneficiaries who fall into any of the following categories:

- Asymptomatic, nonpregnant adolescents and adults at high risk for HBV infection

- Pregnant persons

CPT® code	Code descriptor	Co-pay/ coinsurance waived (Yes/No)?	Deductible waived (Yes/No)?
86704, pregnant female	Hepatitis B core antibody (HBcAb); total	YES	YES
86706, pregnant female	Hepatitis B surface antibody (HBsAb)	YES	YES
87340, pregnant female	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzymelinked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; hepatitis B surface antigen (HBsAg)	YES	YES
87341, pregnant female	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzymelinked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; hepatitis B surface antigen (HBsAg) neutralization	YES	YES

HCPCS code	Code descriptor	Co-pay/ coinsurance waived (Yes/No)?	Deductible waived (Yes/No)?
G0499, Asymptomatic, Nonpregnant, High Risk	Hepatitis B screening in non-pregnant, high risk individual includes hepatitis b surface antigen (hbsag), antibodies to hbsag (anti-hbs) and antibodies to hepatitis B core antigen (anti-hbc), and is followed by a neutralizing confirmatory test, when performed, only for an initially reactive hbsag result	YES	YES

Medicare Coding Guide

Hepatitis C virus (HCV) screening

Coverage guidance: Certain adult Medicare beneficiaries who fall into at least one of the following categories:

- High risk for HCV infection
- Born between 1945 and 1965
- Had a blood transfusion before 1992

CPT® code	Code descriptor	Co-pay/ coinsurance waived (Yes/No)?	Deductible waived (Yes/No)?
G0472	Hepatitis C antibody screening, for individual at high risk and other covered indication(s)	YES	YES

AMA

Private Payer Coding Guide

Due to the Affordable Care Act (ACA), when physicians order certain evidence-based preventive services for patients, the insurance company may cover the cost of the service, with the patient having no cost-sharing responsibility (zero-dollar). The ACA requires that most private insurance plans provide zero-dollar coverage for the preventive services recommended by four ACA designated organizations (the U.S. Preventive Services Task Force [USPSTF], the Advisory Committee on Immunization Practices [ACIP], Women's Preventive Services Initiative, and Bright Futures).

As coverage is directly aligned with these evidence-based recommendations, it is important to recognize which patient populations are eligible for each preventive service without cost-sharing and which patients may require cost-sharing for the same services. This "Private payer coding guide" helps physicians ensure that they are coding services correctly to be eligible for zero-dollar coverage. **Click here for more information.**

Below is a list of procedural codes related to HIV, STIs, viral hepatitis and latent tuberculosis infection screening that may be applicable in your clinical practice. The information provided does not make recommendations for the specific tests that need to be ordered.

HIV

HIV screening: Pregnant persons

Applicable patient population: The USPSTF recommends that clinicians screen all pregnant persons for HIV, including those who present in labor who are untested and whose HIV status is unknown.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
86689	Antibody; HTLV or HIV antibody, confirmatory test (e.g., Western Blot).	YES
86701	Antibody; HIV-1	YES
86702	Antibody; HIV-2	YES
86703	Antibody; HIV-1 and HIV-2, single result	YES
87389	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; HIV-1 antigen(s), with HIV-1 and HIV-2 antibodies, single result	YES
87390	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; HIV-1	YES
87391	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; HIV-2	YES

This table continues on the next page.

Private Payer Coding Guide

HIV screening: Pregnant persons (continued)

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
87534	Infectious agent detection by nucleic acid (DNA or RNA); HIV-1, direct probe technique	YES
87535	Infectious agent detection by nucleic acid (DNA or RNA); HIV-1, amplified probe technique, includes reverse transcription when performed	YES
87536	Infectious agent detection by nucleic acid (DNA or RNA); HIV-1, quantification, includes reverse transcription when performed	YES
87537	Infectious agent detection by nucleic acid (DNA or RNA); HIV-2, direct probe technique	YES
87538	Infectious agent detection by nucleic acid (DNA or RNA); HIV-2, amplified probe technique, includes reverse transcription when performed	YES
87539	Infectious agent detection by nucleic acid (DNA or RNA); HIV-2, quantification, includes reverse transcription when performed	YES
87806	Infectious agent antigen detection by immunoassay with direct optical (i.e., visual) observation; HIV-1 antigen(s), with HIV-1 and HIV-2 antibodies	YES

HIV screening: Nonpregnant adolescents and adults

Applicable patient population: The USPSTF recommends that clinicians screen for HIV infection in adolescents and adults ages 15 to 65 years. Younger adolescents and older adults who are at increased risk should also be screened.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
86701	Antibody; HIV-1	YES
86702	Antibody; HIV-2	YES
86703	Antibody; HIV-1 and HIV-2, single result	YES
87389	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; HIV-1 antigen(s), with HIV-1 and HIV-2 antibodies, single result	YES
87390	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; HIV-1	YES

This table continues on the next page.

Private Payer Coding Guide

HIV screening: Nonpregnant adolescents and adults (continued)

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
87391	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; HIV-2	YES
87534	Infectious agent detection by nucleic acid (DNA or RNA); HIV-1, direct probe technique	YES
87535	Infectious agent detection by nucleic acid (DNA or RNA); HIV-1, amplified probe technique, includes reverse transcription when performed	YES
87536	Infectious agent detection by nucleic acid (DNA or RNA); HIV-1, quantification, includes reverse transcription when performed	YES
87537	Infectious agent detection by nucleic acid (DNA or RNA); HIV-2, direct probe technique	YES
87538	Infectious agent detection by nucleic acid (DNA or RNA); HIV-2, amplified probe technique, includes reverse transcription when performed	YES
87539	Infectious agent detection by nucleic acid (DNA or RNA); HIV-2, quantification, includes reverse transcription when performed	YES
87806	Infectious agent antigen detection by immunoassay with direct optical (i.e., visual) observation; HIV-1 antigen(s), with HIV-1 and HIV-2 antibodies	YES

STIs ....

Chlamydia screening: Sexually active women, including pregnant persons

Applicable patient population: The USPSTF recommends screening for chlamydia in all sexually active women 24 years or younger and in women 25 years or older who are at increased risk for infection.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
86631	Antibody; Chlamydia	YES
86632	Antibody; Chlamydia, IgM	YES
87110	Culture, chlamydia, any source	YES
87270	Infectious agent antigen detection by immunofluorescent technique; Chlamydia trachomatis	YES
87320	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; Chlamydia trachomatis	YES
87490	Infectious agent detection by nucleic acid (DNA or RNA); Chlamydia trachomatis, direct probe technique	YES
87491	Infectious agent detection by nucleic acid (DNA or RNA); Chlamydia trachomatis, amplified probe technique	YES
87810	Infectious agent antigen detection by immunoassay with direct optical (i.e., visual) observation; Chlamydia trachomatis	YES

Private Payer Coding Guide

Gonorrhea screening: Sexually active women, including pregnant persons

Applicable patient population: The USPSTF recommends screening for gonorrhea in all sexually active women 24 years or younger and in women 25 years or older who are at increased risk for infection.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
87590	Infectious agent detection by nucleic acid (DNA or RNA); Neisseria gonorrhoeae, direct probe technique	YES
87591	Infectious agent detection by nucleic acid (DNA or RNA); Neisseria gonorrhoeae, amplified probe technique	YES
87592	Infectious agent detection by nucleic acid (DNA or RNA); Neisseria gonorrhoeae, quantification	YES
87850	Infectious agent antigen detection by immunoassay with direct optical (i.e., visual) observation; Neisseria gonorrhoeae	YES

Syphilis screening: Pregnant persons

Applicable patient population: The USPSTF recommends early screening for syphilis infection in all pregnant persons.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
80055	Obstetric panel This panel must include the following: Blood count, complete (CBC), automated and automated differential WBC count (85025 or 85027 and 85004) OR Blood count, complete (CBC), automated (85027) and appropriate manual differential WBC count (85007 or 85009) Hepatitis B surface antigen (HBsAg) (87340) Antibody, rubella (86762) Syphilis test, non-treponemal antibody; qualitative (e.g., VDRL, RPR, ART) (86592) Antibody screen, RBC, each serum technique (86850) Blood typing, ABO (86900) AND Blood typing, Rh (D) (86901)	YES
80081	Obstetric panel (includes HIV testing) This panel must include the following: Blood count, complete (CBC), and automated differential WBC count (85025 or 85027 and 85004) OR Blood count, complete (CBC), automated (85027) and appropriate manual differential WBC count (85007 or 85009) Hepatitis B surface antigen (HBsAg) (87340) HIV-1 antigen(s), with HIV-1 and HIV-2 antibodies, single result (87389) Antibody, rubella (86762) Syphilis test, non-treponemal antibody; qualitative (e.g., VDRL, RPR, ART) (86592) Antibody screen, RBC, each serum technique (86850) Blood typing, ABO (86900) AND Blood typing, Rh (D) (86901)	YES
86592	Syphilis test, non-treponemal antibody; qualitative (e.g., VDRL, RPR, ART)	YES
86593	Syphilis test, non-treponemal antibody; quantitative	YES
86780	Antibody; Treponema pallidum	YES

Private Payer Coding Guide

Syphilis screening: Asymptomatic, nonpregnant adolescents and adults

Applicable patient population: The USPSTF recommends screening for syphilis infection in persons who are at increased risk for infection.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
86592	Syphilis test, non-treponemal antibody; qualitative (e.g., VDRL, RPR, ART)	YES
86593	Syphilis test, non-treponemal antibody; quantitative	YES
86780	Antibody; Treponema pallidum	YES

VIRAL HEPATITIS

Hepatitis B screening: Pregnant persons

Applicable patient population: The USPSTF strongly recommends screening for hepatitis B virus infection in pregnant persons at their first prenatal visit.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
80055	Obstetric panel This panel must include the following: Blood count, complete (CBC), automated and automated differential WBC count (85025 or 85027 and 85004) OR Blood count, complete (CBC), automated (85027) and appropriate manual differential WBC count (85007 or 85009) Hepatitis B surface antigen (HBsAg) (87340) Antibody, rubella (86762) Syphilis test, non-treponemal antibody; qualitative (e.g., VDRL, RPR, ART) (86592) Antibody screen, RBC, each serum technique (86850) Blood typing, ABO (86900) AND Blood typing, Rh (D) (86901)	YES
80081	Obstetric panel (includes HIV testing) This panel must include the following: Blood count, complete (CBC), and automated differential WBC count (85025 or 85027 and 85004) OR Blood count, complete (CBC), automated (85027) and appropriate manual differential WBC count (85007 or 85009) Hepatitis B surface antigen (HBsAg) (87340) HIV-1 antigen(s), with HIV-1 and HIV-2 antibodies, single result (87389) Antibody, rubella (86762) Syphilis test, non-treponemal antibody; qualitative (e.g., VDRL, RPR, ART) (86592) Antibody screen, RBC, each serum technique (86850) Blood typing, ABO (86900) AND Blood typing, Rh (D) (86901)	YES

Private Payer Coding Guide

Hepatitis B screening: Nonpregnant adolescents and adults

Applicable patient population: The USPSTF recommends screening for hepatitis B virus infection in persons at high risk for infection.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
86704	Hepatitis B core antibody (HBcAb); total	YES
86705	Hepatitis B core antibody (HBcAb); IgM antibody	YES
86706	Hepatitis B surface antibody (HBsAb)	YES
86707	Hepatitis Be antibody (HBeAb)	YES
87340	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; hepatitis B surface antigen (HBsAg)	
87341	Infectious agent antigen detection by immunoassay technique, (e.g., enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], fluorescence immunoassay [FIA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative; hepatitis B surface antigen (HBsAg) neutralization	

Hepatitis C screening: Adults

Applicable patient population: The USPSTF recommends screening for hepatitis C virus infection in adults aged 18 to 79 years.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
86803	Hepatitis C antibody	YES
87520	Infectious agent detection by nucleic acid (DNA or RNA); hepatitis C, direct probe technique	YES
87521	Infectious agent detection by nucleic acid (DNA or RNA); hepatitis C, amplified probe technique, includes reverse transcription when performed	YES
87522	Infectious agent detection by nucleic acid (DNA or RNA); hepatitis C, quantification, includes reverse transcription when performed	YES

LATENT TUBERCULOSIS INFECTION

Latent Tuberculosis Infection Screening: Asymptomatic adults at increased risk for infection

Applicable patient population: The USPSTF recommends screening for latent tuberculosis infection in populations at increased risk.

CPT® code	Code descriptor	Use Modifier 33 (Yes/No)?
86480	Tuberculosis test, cell mediated immunity antigen response measurement; gamma interferon	YES
86481	Tuberculosis test, cell mediated immunity antigen response measurement; enumeration of gamma interferon-producing T-cells in cell suspension	YES
86580	Skin test; tuberculosis, intradermal	

AMA

Partner Mapping Template
Community Health Centers

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

Partner Mapping Template
Domestic Violence Centers

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

AMA

Partner Mapping Template
Employment Services

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

ORGANIZATION NAME

PRIMARY CONTACT

PHONE NUMBER

EMAIL ADDRESS

LOCATION

NOTES

Partner Mapping Template
Food Insecurity Services

ORGANIZATION NAME

PRIMARY CONTACT

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Partner Mapping Template
Housing Services

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Partner Mapping Template
Infectious Disease Clinics

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Partner Mapping Template
LGBTQ Support Services

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Partner Mapping Template
Mental Health Support Services

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Partner Mapping Template
Substance Use Disorder Support Services

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Resource Library

The HIV, STIs, Viral Hepatitis and Routine Screening Toolkit was developed with input from health care professionals and was designed for clinicians working in community health centers and emergency departments. Access the library of resources available from the toolkit for use in your practice.

Jump to:

BY THE NUMBERS
Prevalence of HIV, STIs, Viral Hepatitis, and LTBI in the U.S.

In 2011-12, the CDC estimated that up to **13 MILLION** people had latent TB infection

In 2021, there were **2.5 MILLION** cases of chlamydia, gonorrhea, and syphilis

As of 2016 an estimated **862,000** people were living with Hepatitis B

In 2022, an estimated **1.2 MILLION** people had HIV

As of 2016, an estimated **2.4 MILLION** people were living with Hepatitis C
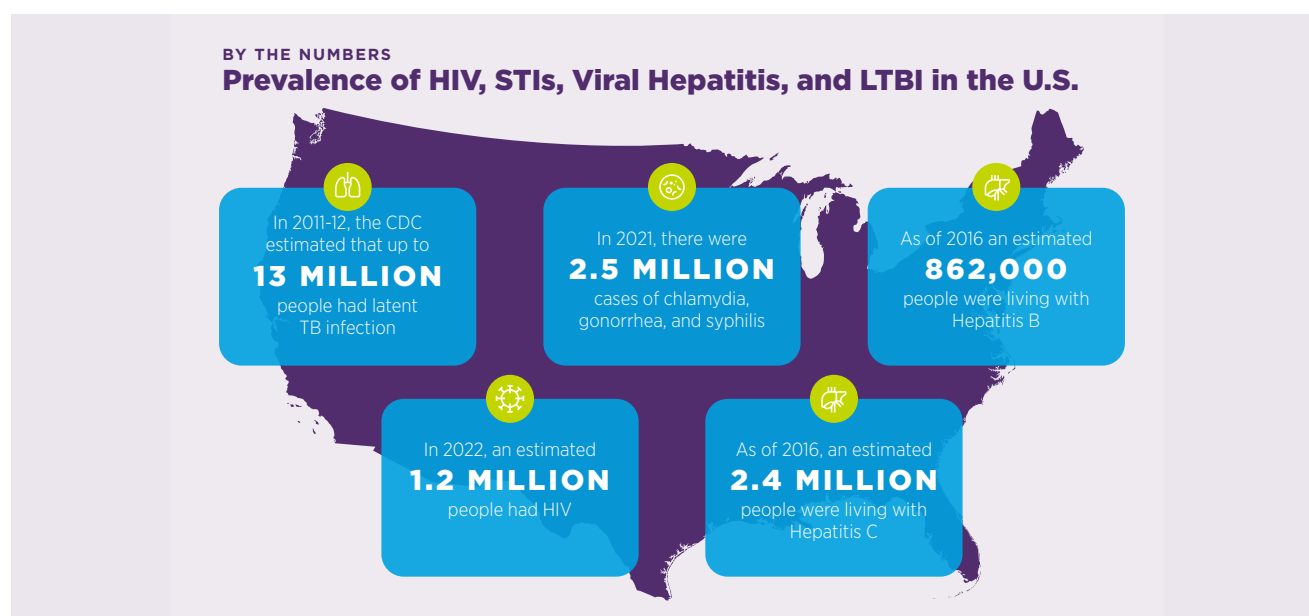
Impact by the numbers

To access interactive maps and charts on number of reported cases by state, race/ethnicity and sex, visit the CDC's National Center for HIV, Viral Hepatitis, STD, and TB Prevention Atlas Plus resource.

HIV

In 2022, an estimated 1.2 million people aged 13 and older had HIV in the United States, including an estimated 153,500 (13%) people whose were not aware of their HIV-positive status (CDC).

For the latest in HIV surveillance from the CDC you can visit the HIV Data webpage.

STIS

Data published by the Centers for Disease Control and Prevention (CDC) show that reported annual cases of STIs in the United States continued to climb in 2021, reaching an all-time high for the sixth consecutive year.

The 2021 STI Surveillance Report found:

- 2.5 million cases of chlamydia, gonorrhea, and syphilis, the three most reported STIs in 2021.

- Congenital syphilis continues to surge, increasing 203 percent in the past five years. In 2021, 38 jurisdictions, including 37 states and the District of Columbia, reported an increase in congenital syphilis cases.

For the latest in STI surveillance from the CDC you can visit the About STI Statistics webpage.

VIRAL HEPATITIS

- As of 2016, nearly 3.3 million people in the United States were living with chronic viral hepatitis—an estimated 862,000 with hepatitis B and 2.4 million with hepatitis C.
- Hepatitis B: In 2019, a total of 3,192 acute hepatitis B cases were reported to CDC, resulting in 20,700 estimated infections after adjusting for case under-ascertainment and under-reporting
- Hepatitis C: In 2019, 4,136 acute hepatitis C cases were reported to CDC, resulting in 57,500 estimated infections after adjusting for case under ascertainment and under-reporting. The number of cases reported during 2019 corresponds to a 133% increase from the 1,778 cases reported during 2012.

For the latest in viral hepatitis surveillance from the CDC you can visit the Viral Hepatitis Statistics and Surveillance webpage.

LATENT TUBERCULOSIS INFECTION (LTBI)

- During 2019, the United States reported the lowest number of TB cases (8,916) and lowest incidence rate (2.7 cases per 100,000 persons) since individual TB case reporting began in 1953.
- This represents a 1.2% decrease in TB cases and 1.7% decrease in the incidence rate from 2018.
- However, CDC estimated in 2011-2012 up to 13 million people in the United States had LTBI who could benefit from testing and treatment to prevent reactivation to TB disease.

For the latest in Tuberculosis surveillance from the CDC you can visit the Tuberculosis Data and Statistics webpage.

Summary of action items

WHAT CAN YOU DO?

- Couple screenings for HIV, STIs, viral hepatitis and LTBI with screenings for chronic conditions or care for everyday concerns
- Understand what comprehensive care looks like and feels like to the community being served and place routine screening in that context
- Implement patient self-assessment screening in waiting room and address during visit as needed
- Make sure all staff are up to date on screening recommendations
- Identify opportunities for clinical decision support tools that provide reminders or support automatic laboratory orders
- Ensure staff are trained in patient counseling and can deliver news in a clear, culturally sensitive, and effective way
- Have patient education materials available at visit completion
- Have resources to aid patients with disclosing their status to partners
- Have strong linkage to care and follow up protocols for patients in place
- Discuss accessible preventive measures

Implementation materials

RESOURCES TO HELP BUILD STRONG COMMUNITY PARTNERSHIPS

- Tool for Tracking Partners and Partnership Activities: Pages 81-88 from HSA's Integrating HIV Care, Treatment & Prevention Services into Primary Care–A Toolkit for Health Centers guide includes a Partnership Toolkit that

provides a comprehensive list of key considerations, steps, and templates to help guide your organizations' community relationship building and tracking.

- Partnership Mapping Template (PDF): This template provides a framework to help your organization keep track of relationships with non-clinical services and outpatient clinics that will support both community outreach and a sustainable linkage to care program.

SOCIAL AND DIGITAL MARKETING MATERIAL AND CAMPAIGN EXAMPLES

The CDC's National Prevention Information Network includes information and links to digital marketing examples and marketing campaigns executed by a variety of organizations.

- CDC's Let's Stop HIV Together Campaign
- CDC's National Prevention Information Network Digital Media Tools for HIV
- CDC's Let's Stop HIV Together Social Media Toolkit
- CDC's National Prevention Information Network Digital Media Tools for hepatitis
- CDC's National Prevention Information Network Digital Media Tools for STDs
- CDC's Think. Test. Treat TB Campaign
- CDC's Latent TB Infection Online Resource Hub

SOCIAL DETERMINANTS OF HEALTH RESOURCES

- Tools for Putting Social Determinants of Health into Action: This CDC resource compiles a series of tools and resources that health care practitioners can review in order to embed strategies to address social determinants of health in their organization.
- Health-Related Social Needs Screening Tool: This resource from the Centers for Medicare and Medicaid Services can help clinicians find out patients' needs in 5 core domains including housing instability, food insecurity, transportation problems, utility help needs and interpersonal safety.
- PRAPARE Screening Tool and Implementation Toolkit: Developed in partnership between the National Association of Community Health Centers, the Association of Asian Pacific Community Health Organizations, and the Oregon Primary Care Association the Protocol for Responding to and Assessing Patients' Assets, Risks, and Experiences (PRAPARE) is a national standardized patient risk assessment protocol designed to engage patients in assessing and addressing social determinants of health.

MEET PATIENTS WHERE THEY ARE RESOURCES

- HIV Testing in Non-Clinical Settings: This CDC webpage compiles a series of guidelines, recommendations and job aids that supports HIV testing in non-clinical settings.
- Implementing HIV Testing in Nonclinical Settings: A Guide for HIV Testing Providers: The purpose of this guide from the CDC is to familiarize health care professionals with key programmatic issues that impact delivery of HIV testing services in nonclinical settings.

Patient education materials

PATIENT EDUCATION MATERIALS FROM THE CDC

These links compile downloadable patient education materials from the CDC with resources targeted to different patient demographics and available in multiple languages. Patients should be provided with information about the communicable nature of these infections and consider options for notifying others that were potentially exposed.

- HIV Consumer Info Sheets
- Viral Hepatitis Patient Education Materials

- STI Patient Resources from the CDC
  - CDC Fact Sheets
  - Next steps after testing positive for gonorrhea or chlamydia
  - Getting Tested for STIs
  - How to Prevent STIs
- LTBI and TB disease resources
  - Find TB Resources: TB Education & Training from the CDC
  - Tuberculosis Patient & General Public Materials

PATIENT PAGES FROM THE JAMA NETWORK™

JAMA Patient Pages are free patient resources designed to distill high-quality evidence and updated guidance from USPSTF into a more accessible patient friendly format to help guide patient decisions. These resources can also be helpful to reference as your clinic or institution develops their own patient-friendly educational resources.

HIV

- Human Immunodeficiency Virus
- Who Should Be Screened for HIV Infection?
- Can HIV Infection Be Prevented With Medication?
- HIV Infection: The Basics

Viral hepatitis

- Screening for Hepatitis B in Nonpregnant Adolescents and Adults
- Screening for Hepatitis B in Pregnant Women
- Screening for Hepatitis C Virus Infection
- Treating Hepatitis C

STIs

- What is Syphilis?
- Screening for Syphilis in Pregnant Women
- Screening for Syphilis
- Screening for Chlamydia and Gonorrhea

LTBI

- Screening for Latent Tuberculosis

SELF OR RISK ASSESSMENT TEMPLATES

The following links provide you with examples of self or risk assessment templates that you can leverage in your practice.

- HIV: Learn the HIV risk of different sexual activities when one partner is HIV positive and one partner is HIV negative (a discordant partnership).
- STIs: Link to the CDC's Prepare Before You're There STI self-risk assessment quiz.
- Viral hepatitis: Assess your risk with this Hepatitis Risk Assessment Tool from the CDC.
- LTBI
  - This CDC resource is an LTBI guide booklet for primary care clinicians. Appendix A of this resource is a sample

risk assessment that can be leveraged when screening for LTBI.

RESOURCES ON COLLECTING COMPREHENSIVE PATIENT DEMOGRAPHICS AND SEXUAL HISTORY

- Discussing Sexual Health with Your Patients: The resource from the CDC outlines strategies and tips for facilitating discussions with and asking patients sensitive questions related to sexual health.

- A Guide to Taking a Sexual History (PDF): This CDC resource offers a framework for discussing sexual health issues to help health care professionals complete the overall picture of their patient's health.

- GOALS Framework for Sexual History Taking in Primary Care: The GOALS Framework resource from the Clinical Guidelines Program of the New York State Department of Health AIDS Institute is designed to streamline sexual history conversations and elicit information most useful for identifying an appropriate clinical course of action.

- Sexual Health and Your Patients: A Provider's Guide: The resource from the National Coalition for Sexual Health was developed to help health care professionals better integrate sexual health conversations and recommended preventive services into routine visits with adolescents and adults.

SCREENING GUIDELINES FROM THE CDC AND USPSTF

- CDC Guidelines and Recommendations

- USPSTF A&B Recommendations

- Clinical algorithm flowcharts for screening: This set of documents translates screening guidance and clinical considerations from the USPSTF into a decision tree format to help outline steps in the testing continuum from beginning to end and allow you to help clarify team member roles at each step of the process.

  - Clinical algorithm flowchart for HIV screening (PDF)

  - Clinical algorithm flowchart for Chlamydia and Gonorrhea screening (PDF)

  - Clinical algorithm flowchart for Syphilis screening (PDF)

  - Clinical algorithm flowchart for HBV screening (PDF)

  - Clinical algorithm flowchart for HCV screening (PDF)

RESOURCES TO STREAMLINE THE TESTING CASCADE

- Streamlined testing cascade: This set of infographics outlines the testing cascade for each infectious disease in this toolkit for both community health centers and emergency departments, including opportunities to optimize screening, and can be used to help clarify care team member roles at each step as well as define a clear post-test protocol.

  - **Community Health Center:**

    - Routine Screening Toolkit: Streamlined Testing Cascade, HCV (PDF)

    - Routine Screening Toolkit: Streamlined Testing Cascade, HIV (PDF)

    - Routine Screening Toolkit: Streamlined Testing Cascade, LTBI (PDF)

    - Routine Screening Toolkit: Streamlined Testing Cascade, STI (PDF)

  - **Emergency Department:**

    - Routine Screening Toolkit: Streamlined Testing Cascade, HIV (PDF)

    - Routine Screening Toolkit: Streamlined Testing Cascade, STI (PDF)

    - Routine Screening Toolkit: Streamlined Testing Cascade, HCV (PDF)

- Care team members roles and responsibilities (PDF): This resource outlines potential care team member roles in your organization and the part that they play in the routine screening process.

- Recommendations for Providing Quality STD Clinical Services: This resource from the CDC highlights the services

health care settings can offer to provide the highest-quality STI care to their patients.

- Health Department directories: This resource from the CDC outlines who is working to protect the public's health in your area, including senior health officials, state, local, and territorial health departments, and tribes and Indian organizations. Clinical staff may need to develop relationships with staff in various sections of health departments in order to facilitate reporting, linkage to care or prevention, and other critical services.

IMPLEMENT THE "OPT-OUT" APPROACH

Training clinicians to implement opt-out language helps normalize routine screening as standard of care. Opt-out screening reduces the subjectivity of the decision on behalf of the patient where consent is not legally required.

- Explanation of opt-out screening approach for HIV: This resource link from the CDC provides an explanation of an opt-out approach to screening and why it is effective at increasing screening.

- Sample opt out script for providers during HIV screening encounter: Pages 4-5 of the Guidance for Delivering HIV Pre-Test and Post-Test Results resource from the Reproductive Health National Training Centers outlines samples scripts that clinicians can use when conducting an opt-out approach to HIV screening.

- Discussion Guide: Using normalizing and opt-out language for chlamydia and gonorrhea: This resource from the Reproductive Health National Training Centers is designed to build the confidence of clinic staff to use normalizing and opt-out language for chlamydia and gonorrhea screening.

- State Laws that address High-Impact HIV Prevention Efforts: This resource from the CDC is a summary of state specific laws on a minor's autonomous consent for HIV and/STI services, and laws that address HIV prevention efforts.

RESOURCES TO SUPPORT SEX-POSITIVE, STATUS-NEUTRAL MESSAGING ABOUT THE BENEFITS OF ROUTINE SCREENING

- Care team resources to help health care providers educate patients on the importance of sexual health: These tools from the National Coalition for Sexual Health can help health care providers and clinical staff cultivate a clinical environment that delivers inclusive, patient-centered, and accessible sexual health services for all patients.
  - Inclusive Sexual Health Services: Practical Guidelines for Providers & Clinics
  - Sexual Health and Your Patients: A Provider's Guide
  - Compendium of Sexual & Reproductive Health Resources for Healthcare Providers

CLINICAL DECISION SUPPORT SYSTEM RESOURCES

- Clinical Decision Support System to Increase HIV Screening: The webpage outlines new recommendations and considerations for implementation from the CPSTF that the use of clinical decision support systems increases HIV screening both for the general population as well as those at higher risk for HIV infection.

- Tips to Leverage Your Electronic Health Record to Implement Opt-Out HIV: This resource from Health Information Technology Evaluation and Quality Center outlines best practices and strategies for implementing opt-out HIV screening in your organization using the electronic health record.

TASK SHIFTING RESOURCES

- Sharing and Shifting Tasks to Maintain Essential Healthcare During COVID-19 in Low Resource, non-US settings resource from the CDC: This resource developed by the CDC specifically for maintaining health care during COVID-19 outlines many of the basics of task shifting and task sharing that can be applied across many health care delivery situations.

- Task Shifting: Global Recommendations and Guidelines from the World Health Organization: This resource from provides recommendation and guidance from the World Health Organization on how to redistribute tasks among the health care team in order to make more efficient use of available human resources, especially in workforce

shortages, in order to reach more patients with care.

RESOURCES TO CREATE A TRUSTED AND WELCOMING ENVIRONMENT

- Tools to Create a Welcoming Environment: Included as a subset of resources in the National Coalition of Sexual Health's Compendium of Sexual & Reproductive Health Resources for Healthcare Providers, users can find examples and resources on how to create a welcoming and safe environment for both teen and LGBTQ patients.
- Target HIV Cultural Competency Resources: This webpage includes a collection of guidance, tools and trainings that clinicians can use to identify and address bias to improve communication with diverse patients.
- Cultural Competence in Health and Human Services: This resource from the National Prevention Information Network defines what cultural competence is and how it applies to HIV, viral hepatitis, STI and TB prevention.

COST EFFECTIVENESS RESOURCES

Presenting the cost-benefit analysis of catching diseases early versus treating disease progression can help establish infectious disease control as a strategic imperative in a health setting and gain access to timesaving resources.

- HIV Cost-effectiveness resource: This resource from the CDC provides a basic guide to the cost-effectiveness analysis of prevention interventions for HIV infection and AIDS and help prevention program staff and planners become more familiar with potential uses of economic evaluation.
- Integrating Routine HIV Screening Into Clinical Practice (PDF): This resource from the CDC outlines the clinical benefits of early HIV diagnosis and treatment.
- Overview of Cost, Reimbursement, and Cost-Effectiveness Considerations for Hepatitis C Treatment Regimens: This webpage outlines the cost-effectiveness of HCV treatment and care with a section specifically dedicated to the cost effectiveness of screening for HCV.
- Cost-effectiveness of testing and treatment for Latent Tuberculosis Infection: This original investigation published in JAMA Internal Medicine aimed to estimate health outcomes, costs, and cost-effectiveness of LTBI testing and treatment among non-US born residents with and without medical comorbidities.

FUNDING AND REIMBURSEMENT STRATEGY RESOURCES

Routine screening coding quick guide: This coding guide outlines a list of procedural codes related to HIV, STI, viral hepatitis and tuberculosis screening for both private payer insurance and Medicare and helps you ensure that you are coding services correctly for eligible patient populations to cover the cost of the service, with the patient having no cost-sharing responsibility.

- Routine screening Medicare coding quick guide (PDF)
- Routine Screening Toolkit: Private payer coding guide (PDF)
- ICD-10-CM Codes for Tuberculosis (TB)
- Screening, Diagnosis, and Treatment of Latent Tuberculosis Infection (LTBI) in Primary Care Settings: Tips for Coding and Billing (PDF)

POTENTIAL RESOURCES TO COVER DIRECT AND INDIRECT COSTS

The following links are listings of available funding opportunities that could help to cover screening related initiatives and associated costs at your clinic.

- CDC's National Prevention Information Network–Funding Opportunities
- CDC HIV Funding and Budget resource
- Rural Health Information Hub–HIV and AIDS Funding Opportunities

RESOURCES TO HELP FORM A STRONG REFERRAL NETWORK

- **Linkage to care administrative resources:**
  - Tool for Tracking Partners and Partnership Activities (PDF): Pages 81-88 from HRSA's Integrating HIV Care, Treatment & Prevention Services into Primary Care–A Toolkit for Health Centers guide includes a Partnership Toolkit that provides a comprehensive list of key considerations, steps, and Partnership-Focused Templates to help guide organizations' relationship building and tracking.
  - Partnership Mapping Template (PDF): This template provides a framework to help your organization keep track of relationships with non-clinical services and outpatient clinics that will support both community outreach and a sustainable linkage to care program.

- **Providing or linking to care treatment and prevention resources:**
  - Effective Interventions to Treat HIV: This webpage from the CDC outlines resources that are available for the HIV prevention workforce to increase their capacity to link, retain, and re-engage people for HIV care and treatment.
  - Ready, Set, PrEP: Health care professionals and individuals can use this website to learn more about the the Ready, Set, PrEP program which provides free PrEP HIV-prevention medications to thousands of people living in the United States, including tribal lands and territories, who qualify.
  - Clinical Guidance for PrEP: This resource from the CDC outlines recommendations, treatment options and considerations for managing patients on PrEP.
  - Sexually Transmitted Infections Treatment Guidelines: CDC's Sexually Transmitted Infections (STI) Treatment Guidelines, 2021 provides current evidence-based prevention, diagnostic and treatment recommendations that replace the 2015 guidance.
  - CDC Guidelines on the use of doxy PEP: This report outlines CDC's recommendation for the use of doxycycline postexposure prophylaxis (doxy PEP) for bacterial sexually transmitted infection prevention.
  - HCV Guidance: Recommendations for Testing, Managing, and Treating Hepatitis C: To provide healthcare professionals with timely guidance, the American Association for the Study of Liver Diseases (AASLD) and the Infectious Diseases Society of America (IDSA) developed this website to facilitate the dissemination of evidence-based, expert-developed recommendations for hepatitis C management.
  - Behavioral Health Treatment Services Locator: This resource from SAHMSA helps connect persons seeking treatment facilities in the United States for substance use and addiction as well as mental health problems.

RESOURCES RELATED TO LEVERAGING PATIENT NAVIGATORS AS MEMBERS OF THE CARE TEAM

- HIV Navigation Services – STEPS to Care: This resource from the CDC provides links to trainings designed to improve navigation skills for those delivering prevention services to persons with HIV and HIV-negative persons at risk.
- STEPS to Care: Staffing and Supervision: This resource from the CDC outlines key roles and responsibilities for the patient navigation team including adaptable job description templates and videos that discuss key skills and strengths needed to be a patient navigator.
- HIV Navigation Services Section of the Rapid Antiretroviral Therapy Toolkit: Section 2 (beginning on page 19) of this toolkit developed in partnership by Primary Care Development Corporation, My Brother's Keeper, the San Francisco Community Health Center, and the Denver Prevention Training Center provides an overview of the essential role of HIV navigation services in rapid ART services. It also includes a review of staffing needs and considerations for resource-limited settings, suggested protocols, and real-world examples of how to provide services in resource variable settings.

Care team training

TRAINING ON HOW TO ASSESS SOCIAL DETERMINANTS OF HEALTH

- AMA STEPS Forward® Module: Addressing Social Determinants of Health: This learning module from AMA STEPS

Forward® outlines how to identify methods to understand the unique health needs of your community and formulate a plan to help your organization begin to address social determinants of health.

- Social Determinants of Health foundational course: This case-based virtual course from Aquifer provides foundational knowledge and a framework for building skills that minimize the effects of social determinants of health on health outcomes.
- Training Primary Care Residents on the Social Determinants of Health: This resource from the Greater New York Hospital Association includes foundational content that can be used when teaching social determinants of health concepts to both primary care residents as well as other care team members involved in the routine screening process.

CARE TEAM TRAINING ON LGBTQ, TRANSGENDER AND GENDER NONCONFORMING ESSENTIALS

The AMA Ed Hub offers a series of training modules developed by Howard Brown Health, SAGECare, The Fenway Institute and more that can help provide education to your care team on sex-positive and gender appropriate language and methods to incorporate best practices into your organization.

- Patient Care Education from Howard Brown Health
- SAGECare Education
- LGBTQIA+ Health Education from The Fenway Institute
- AMA Ed Hub CME Course: LGTBQ Health, Diversity & Inclusion

TRAINING TO HELP STAFF DEVELOP SKILLS TO COMMUNICATE WITH PATIENTS MORE EFFECTIVELY

- AMA STEPS Forward®: Health Coaching: This learning module from AMA STEPS Forward® outlines steps to help you develop and implement a health coaching model in your practice.
- Self-Study Modules on Tuberculosis: Patient Rights and Confidentiality in Tuberculosis Control (PDF): Patient Rights and Confidentiality in Tuberculosis Control: This resource from the CDC discusses patient rights and general recommendations for developing trust and maintaining confidentiality in the context of TB control.
- Talking with Your Patients about Latent Tuberculosis (TB) Infection: A conversation guide for health care providers about how to talk to patients about latent TB infection.

LONG FORM COURSES WITH BACKGROUND EDUCATION ON HIV, STIS, VIRAL HEPATITIS, AND LTBI ESSENTIALS

The following links are a compilation of education and training resources from the CDC targeted to health care professionals. These training materials can be leveraged to equip your care team members with the latest information to help boost the confidence of any member of the care team in answering patient questions.

HIV:

- HIV/ AIDS Training For Public Health Professionals from the National Prevention Information Network
- HIV Training Resources
- Compendium of Evidence-Based Interventions and Best Practices for HIV Prevention: This webpage from the CDC outlines a collection of HIV interventions in the form of evidence-based and evidence-informed info sheets.
- Preventing new HIV Infections: This webpage from the CDC includes both the latest Clinical Practice Guidelines and Clinical Providers' Supplement for using PrEP for the prevention of HIV infection.
- National HIV PrEP Curriculum: This free resource was developed at the University of Washington for health care professionals who want to learn about HIV PrEP.

Viral hepatitis:

- Hepatitis Training resources from the National Prevention Information Network
- Viral Hepatitis Training Resources

STIs:

- STD Prevention Training from the National Prevention Information Network
- STD Training Resources
- County-level Syphilis Rates to Direct Screening Efforts: Health care professionals can use this county-level map from the CDC that visualizes primary & secondary syphilis rates as they consider their syphilis screening efforts.

LTBI and TB:

- TB 101 for Health Care Workers
- Core Curriculum on Tuberculosis: What the Clinician Should Know
- TB Centers of Excellence for Training, Education, and Medical Consultation
- LTBI Online Resource Hub
- Find TB Resources
- Tuberculosis Testing and Latent Tuberculosis Infection Treatment Practices Among Health Care Providers — United States, 2020–2022

TRAINING ON THE PDSA APPROACH TO QUALITY IMPROVEMENT INITIATIVES

- AMA STEPS Forward Plan-Do-Study-Act (PDSA): This learning module provides an overview of the PDSA approach to quality improvement in your clinic as well as a process mapping toolkit.

TRAINING ON PATIENT PORTAL OPTIMIZATION

- AMA STEPS Forward®: Patient Portal Optimization: This training module from AMA STEPS Forward® outlines how patient portals can help both the care team and patients and how you can encourage your patients to enroll.

TRAINING ON COLLECTING COMPREHENSIVE PATIENT DEMOGRAPHICS AND SEXUAL HISTORY

- AMA STEPS Forward®: Collecting Patient Data–Improving Health Equity in Your Practice: This training module from AMA STEPS Forward® highlights why it is important to collect patient race and ethnicity data and how you can establish standards for and train your staff to collect this data.

Video Clips from Telementoring Session Series for Community Health Centers

Building strong community partnerships:

- During this telementoring session focused on building strong community partnerships, Jennifer Brumfield, RN shares how Express Personal Health in Jackson, MS built relationships with other providers to improve patient experiences and outcomes.

Establishing an integrated approach to care:

- During this telementoring session focused on establishing an integrated approach to care, Jacky Bickham describes how the Louisiana Department of Health's STD, HIV, and Hepatitis Program approaches addressing the needs of community members.

Meet patients where they are:

- During this telementoring session focused on meeting patients where they are, Jacky Bickham shares examples and an approach to how the Louisiana Department of Health's STD, HIV, and Hepatitis Program provides testing outside of the clinic.

Registering patients in EHR portals:

- During this telementoring session focused on registering patients into EHR portals, Jennifer Brumfield, RN describes how patients at Express Personal Health in Jackson, MS benefited from being enrolled in their EHR portal.

Collecting comprehensive patient data:

- During this telementoring session focused on collecting comprehensive patient demographics and sexual history, Kara Green, MHA, MSN, APRN, FNP-BC shares how the HOPE Clinic in Houston, TX improved their patient data collection processes and improved their screening procedures.

- During this telementoring session focused on collecting comprehensive patient demographics and sexual history, Jason Zucker, MD, discusses sex-positive strategies for taking a sexual history and the importance of collecting SOGI data.

Sex-positive, status-neutral messaging about the benefits of routine screening:

- During this telementoring session focused on sex-positive, status neutral messaging, Jason Zucker, MD talks about the many benefits of sex-positive, status-neutral messaging in HIV care.

Streamline the testing cascade:

- During this telementoring session focused on approaches to streamline the testing cascade, Lesley Miller, MD describes how the Grady Liver Clinic uses their EHR system to streamline testing and follow-up.

Patient education materials at conclusion of the visit:

- During this telementoring session focused on patient education materials at the conclusion of the visit, Cabell Jonas, PhD shares how the Mid-Atlantic Permanente Medical Group has improved patient education around HCV.

Linkage to care:

- During this telementoring session focused on linkage to care, Katie Conner, MPH discusses key facilitators success for CrescentCare's rapid linkage to care program for HIV.

Video Clips from Telementoring Session Series for Emergency Departments

- **Create a trusted and welcoming environment:**
  - During this telementoring session, Fahd Ahmad, MD from the St. Louis Children's Hospital discusses the importance of establishing a trusted and welcoming environment for adolescents in order to increase screening opportunities.

- **Involve patients in the screening process:**
  - During this telementoring session, Fahd Ahmad, MD shares the St. Louis Children's Hospital's approach to screening asymptomatic adolescent patients for STIs in the emergency department.

- **Collect comprehensive patient demographics and sexual history:**
  - During this telementoring session, Jason Zucker, MD provides some best practices for taking a sexual history by applying the GOALS Framework for Sexual History taking to an emergency department setting.

- **Implement an opt-out approach:**
  - During this telementoring session, Douglas White, MD provides an overview of the history of the opt-out approach for HIV screening and why it is recommended.
  - During this telementoring session, Douglas White, MD from Alameda Health System's Highland Hospital shares tips on implementing opt-out notifications in an emergency department setting.

- **Stick to sex-positive messaging about the benefits of screening:**

- During this telementoring session, Jason Zucker, MD provides an overview of the importance of using sex-positive messaging to help increase screening for HIV and STIs.
- **Implement automated EHR reminders, prompts and orders to increase screening:**
  - During this telementoring session, Carmen Burrell, DO shares West Virginia University's approach to optimizing EHR alerts when implementing opt-out screening in the emergency department.
  - During this telementoring session, Lesley Miller, MD outlines the way that they implemented changes to their EHR in the Grady Hospital emergency department in order to increase routine screening for HCV.
- **Align infectious disease control with organization's goals:**
  - During this telementoring session, Jason Zucker, MD shares studies that show how universal screening has been shown to be cost effective in numerous settings and models, while also removing stigma associated with HIV testing and contributing to earlier diagnosis and treatment, leading to reduced transmission.
- **Empower every member of the team with education and training:**
  - During this telementoring session, Lesley Miller, MD outlines trends in hepatitis C, why screening is important and the path to achieve elimination.
- **Form a strong referral network:**
  - During this telementoring session, Alex McIntosh-Ogunfolu from CCI Health Services discuss the importance of building strong community partnerships in order to create trusted, warm handoffs for a patient seeking treatment or additional services following a visit in the ED.
- Hire or assign current staff as patient navigators:
  - During this telementoring session, Carmen Burrell, DO describes how her institution, University of West Virginia, approaches linking patients to care after a positive diagnosis in the emergency department.
  - During this telementoring session, Lesley Miller, MD reviews the pros and cons of two different approaches to patient navigation that the Grady Liver Clinic has used with patients after a positive diagnosis in the Grady Health System emergency department--bedside navigation and traditional navigation.

Implementing Routine Screening Webinar Series

- The Importance of Routinely Screening for HIV, STIs, Viral Hepatitis and LTBI: AMA Past President, Jesse Ehrenfeld, MD, MPH, and Jonathan Mermin, MD, MPH, Director of CDC's National Center for HIV, Viral Hepatitis, STD and TB Prevention introduce AMA's toolkit designed for community health centers and emergency departments to integrate routine screening of infectious diseases into patient care. Gain insights on implementing opt-out screening and empowering every member of the care team with training.

- Improve Your Screening Process for HIV, STIs, Viral Hepatitis & LTBI: AMA Past President, Jesse Ehrenfeld, MD, MPH, and a panel of experts share real life experiences and effective routine screening strategies for HIV, STIs, viral hepatitis and LTBI, focusing on sticking to sex-positive, status neutral messaging and streamlining the testing cascade.

- Connecting Patients to Treatment for HIV, STI, Viral Hepatitis & LTBI: AMA Past President, Jesse Ehrenfeld, MD, MPH, and a panel of experts explore two of the strategies related to connecting patients to treatment: forming a strong referral network and hiring or assigning current staff as patient navigators.

ama-assn.org/RoutineScreeningToolkit

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