# Indian Health Service Syphilis Response: Best Practices

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# Rapid/Point-of-Care Testing

#### **Health Check:**

Rapid syphilis test (10 minute results)

Treponemal antibody test

<u>Diagnostics Direct VSC-11-01 - McKesson Medical-Surgical</u>



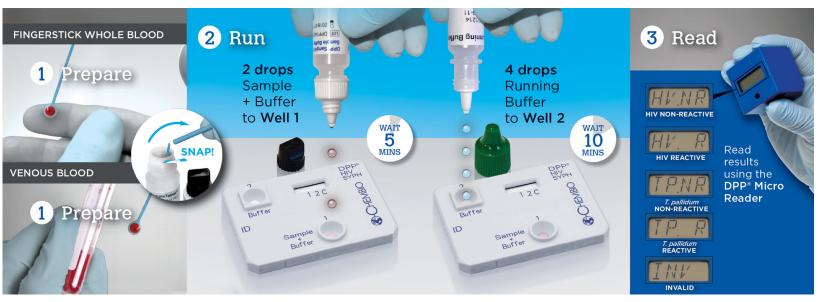


## Rapid/Point-of-Care Testing

**Chembio**: Dual rapid HIV-Syphilis test (15 minute results)

HIV-1/2 antibody test / Treponemal antibody test

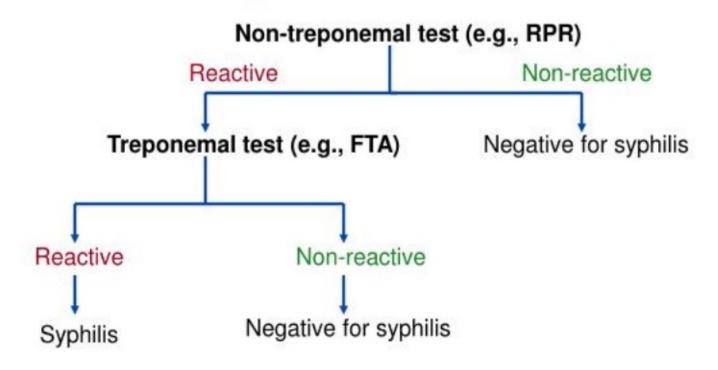
Chembio Diagnostic 65-9502-0 - McKesson Medical-Surgical





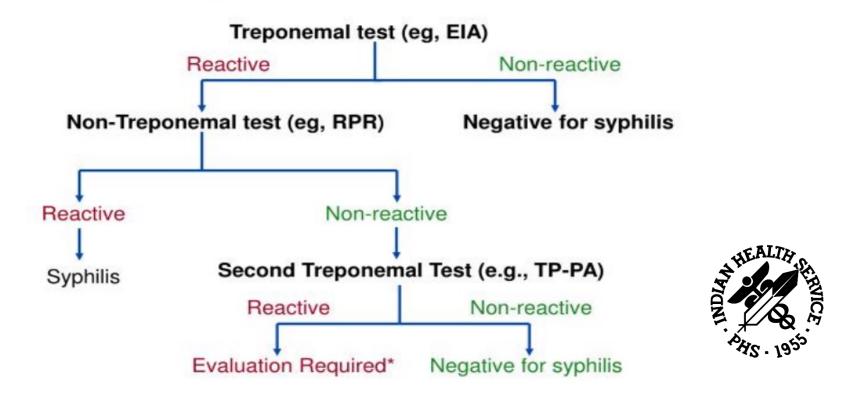
## Traditional Algorithm

#### **Traditional Algorithm**



## Reverse Algorithm

#### **Reverse Algorithm**



#### CMO letter

- Annual syphilis testing for persons aged 13-64 to eliminate syphilis transmission by early case recognition
- Turn on the annual EHR reminder at all sites to facilitate testing for two years or until incidence rates decrease locally to baseline
- Three-point syphilis testing for all pregnant people: at the first prenatal visit, the beginning of the third trimester, and delivery
- Adoption of an STI/HIV/Viral hepatitis testing bundle at all sites to screen broadly:
  - Syphilis screening test with reflex RPR and TPPA
  - HIV serology (with consent if required in the local state jurisdiction)
  - Screening for gonorrhea and chlamydia at three sites: Urine, Pharynx, Rectum
  - Screening for hepatitis B and C
  - Pregnancy test



#### CMO letter

- Adoption of "Express STI Testing" Express STI services refer to triage-based STI testing without a full clinical exam, using standing orders
  - Research shows that express STI services increase clinic capacity and reduce the time to treatment
  - Find the Express Testing Guide and Toolkit here. <u>Sample Toolkit for Express STI Resources Indian</u> <u>Country ECHO</u>
- Enhance screening rates by screening outside of hospitals and clinics
  - Field testing at community centers, sporting events, health fairs, correctional settings, or on the street
- Provide **Field treatment for syphilis** for high-risk adults diagnosed with syphilis and their partners. PHNs can provide treatment with Benzathine Penicillin. The Express STI Services Toolkit includes policy examples. For questions, contact <u>Tina Tah</u> or <u>Melissa Wyaco</u>

#### CMO letter

- Presumptive treatment of syphilis for anyone having signs or symptoms of syphilis or with known exposure to syphilis
- Create and build awareness and encourage people to get tested and treated. There is a new AI/AN-specific national campaign called <a href="STOP SYPHILIS">STOP SYPHILIS</a>
  - The campaign offers handouts, posters, and other print materials, as well as social media posts and short educational videos. All materials are free to order at <a href="https://www.stopsyphilis.org">www.stopsyphilis.org</a>
- Reference the **Syphilis Resources Hub**: <a href="https://www.indiancountryecho.org/syphilis-resources/">https://www.indiancountryecho.org/syphilis-resources/</a>
- \*I Want The Kit: In-home specimen collection/lab-based testing (syphilis will be added later this year)
- \*Vending machines

#### Treatment

- Rapid Treatment
  - Treat immediately after rapid test results
- Presumptive Treatment
  - Symptomatic patients
  - Patients with known exposure





#### Treatment

#### Penicillin Shortage

- Penicillin G benzathine should only be used to treat syphilis
- Prioritize pregnant people
- Prioritize people living with HIV





## Field Based Screening and Treatment

#### Considerations:

- Personnel: avoid providing care alone team with public health nursing, pharmacist, tribal STI worker, or any other approved staff
- Confirm that there is adequate cell phone service and emergency services (911 and EMS) are available
- Screen for exclusionary criteria: history of true penicillin allergy and/or serious complications
- Ensure all supplies and equipment are available for transport



## Allergies

- Penicillin G is contraindicated in patients with known hypersensitivity to penicillin. However, fewer than 1% of the whole population are truly allergic to penicillin
- Approximately 80% of patients with IgE-mediated penicillin allergy lose their sensitivity after 10 years
- Correctly identifying those who are not truly penicillin-allergic can decrease the unnecessary use of broad-spectrum antibiotics

## Allergies

- If penicillin allergy is ruled out, **remove from the allergy list** on patient's electronic health record
- Pregnant people with confirmed hypersensitivity to penicillin should be desensitized to receive penicillin





## Field Based Screening and Treatment

- Anaphylaxis Management:
  - Often occurs within 15-30 minutes of medication administration
  - Administer Epinephrine as soon as possible
  - Contact emergency medical services
  - Transfer patient to a higher level of medical care
  - Document in EHR



### DoxyPEP: Post Exposure Prophylaxis

Take 1 dose of Doxycycline 200mg 24-72 hours after condomless sex

- Found a 65% reduction in chlamydia, gonorrhea, and syphilis among men who have sex with men (MSM) and transgender women
- CDC has acknowledged that providers and patients have started to use DoxyPEP off-label and provided considerations for its use:
  - A reminder that current studies have shown promise among MSM and transgender women, but not among cis-gender women
  - Only Doxycycline has been studied, no other antibiotics

## DoxyPEP: Post Exposure Prophylaxis

- Further analyses are needed to determine the effects of intermittent doxycycline use on antimicrobial resistance and long-term effects on the gut
- Doxycycline is contraindicated for pregnant people (second and third trimesters). Doxycycline may cause fatty liver disease in pregnant people and tooth staining
- Anticipating release of CDC and IHS guidelines summer/fall 2023



# Implementation

- Who should receive DoxyPEP?
  - Men who have sex with men (MSM)/Trans Women (TGW) on HIV PrEP or living with HIV.
  - o If not on HIV PrEP, MSM/TGW with history of STIs within the past 12 months, sex work, chemsex
- 3-6 month schedule: Provide enough meds and replenish after STI screening
- If having signs and symptoms of an STI: patient's should come in for immediate screening and treatment per traditional protocol, and abstain until 1 week post treatment

# DoxyPrEP (Pre-Exposure Prophylaxis)

Take **Doxycycline 100mg daily** prior to having condomless sex

In a pilot study, 30 MSM living with HIV with previous syphilis (two or more episodes since HIV diagnosis) were randomly assigned to doxycycline 100 mg for 48 weeks versus a financial incentive—based behavioral intervention

Results: **73% reduction in any bacterial STI** at any site for the intervention group, without substantial differences in sexual behavior





## Case Management

- Case investigation
- Contact tracing
  - Expedited partner therapy
- Utilizing non-clinical partners
- Treatment Adherence Support
  - Multiple Bicillin injections
  - Follow up on Doxycycline adherence





#### Communication

- Internet partner services
  - Text messaging
  - o Email
  - Social media
- IHS Headquarters currently working on policies to expand communication options to include internet partner services





#### **Incentives**

- Used to enhance screening and adherence to treatment
- IHS Headquarters currently working on policies to allow the direct transfer of federal funds to service areas
- Criteria of what is allowed/not allowed to be purchased





#### Resources

Indian Country ECHO

http://www.indiancountryecho.org

Syphilis Resource Hub

https://www.indiancountryecho.org/syphilis-resources

- Stopsyphilis.org
- ID Consults





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