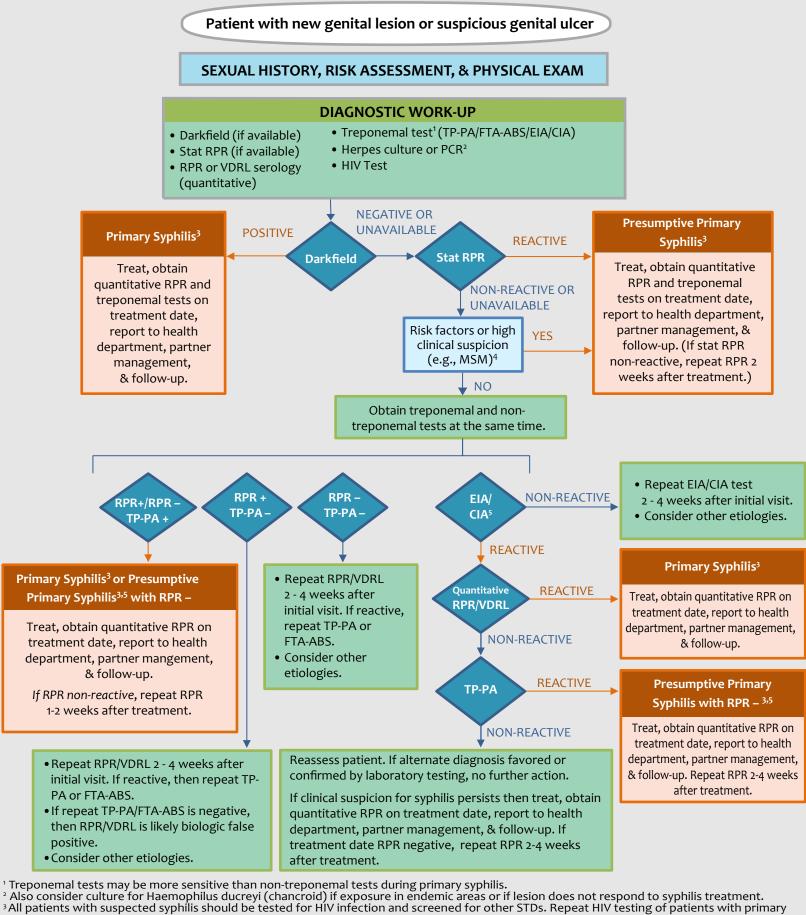
# **Evaluating Patients For Primary Syphilis**



SEXUAL HISTORY, RISK ASSESSMENT, & PHYSICAL EXAM

- Sexual History, Risk Assessment (past year) • Gender of partners, number of partners (new, anonymous, serodiscordant HIV status, exchange of sex for drugs or money)
- Types of sexual exposure
- Recent STDs; HIV serostatus
- Substance abuse
- Condom use
- **History of Syphilis**
- Prior syphilis (last serologic test & last treatment)

# **DIAGNOSTIC ISSUES IN PRIMARY SYPHILIS**

- Darkfield ~ 80% sensitive, varies with skill of examiner; decreased sensitivity as lesion ages
- A negative RPR/VDRL does not exclude syphilis diagnosis; ~75-85% sensitive in primary syphilis
- titers are not interchangeable
- Need both non-treponemal (RPR or VDRL) and treponemal test (TP-PA, FTA-ABS, EIA, CIA) to make syphilis diagnosis
- Treponemal tests can remain positive for life; utility limited in patients with history of prior syphilis, comparison of non-treponemal titers needed

## For more details on Treponemal Immunoassays:

TreponemalImmunoassays Syphilis.pdf

symptoms present, as neurosyphilis can occur at any stage of syphilis)

## **Treatment of Primary Syphilis**

#### **Recommended Regimen**

• Benzathine Penicillin G 2.4 million units IM x 1

# Alternative Regimens for Penicillin Allergic Non-Pregnant Patients:

Efficacy not well established & not studied in HIV+ patients; close follow-up essential:

- Doxycycline 100 mg po bid x 2 weeks or
- Tetracycline 500 mg po gid x 2 weeks
- \*Pregnant patients with penicillin allergy should be desensitized and treated with penicillin

See CDC STD Treatment Guidelines: www.cdc.gov/std/treatment

# **California STD Treatment Guidelines Grid:**

www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/ STD-Treatment-Guidelines-Color.pdf

# **\*\*Additional Testing and Follow-up**

Note: Also test for HIV, GC/CT, and pregnancy (if female of reproductive age)

- 1-2 weeks: clinical follow-up
- 3, 6, 9, 12, 24 months: serologic follow-up for HIV+ patients
- 6, 12 months: serologic follow-up for HIV- patients
- Failure of titer to decline fourfold (e.g. 1:64 to  $\leq$  1:16) within 6-12 months from titer at time of treatment may indicate treatment failure. Titer decline may be slower in HIV+ patients.
- Consider retreatment and CSF evaluation if titer fails to decline appropriately

# **REPORTING & PARTNER MANAGEMENT**

- All syphilis cases and presumptive cases must be reported to the local healt department within one working day of diagnosis
- Local health departments will assist in partner notification & management
- Contact Number at Local Health Department:

<sup>5</sup> If the patient does not respond to treatment, repeat RPR/VDRL after treatment and consider other etiologies.

syphilis 3 months after the first HIV test, if the first test is negative.

is also recomended if patient follow-up is a concern.

**Physical Exam** 

• Lymph nodes

• Palms & soles

Genitalia/pelvic

Neurologic

• Oral cavity

• Skin

• Eyes

• Perianal

- Use same test (RPR or VDRL) in sequential testing;

www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/Useof

Note: Evaluate for neurosyphilis (assess if neurologic, ophthalmic or otic

# **TREATMENT & FOLLOW-UP**

# CLINICAL PRESENTATIONS OF PRIMARY SYPHILIS

- Lesion appears 10-90 days after contact at site of exposure; may persist for 2-3 weeks then resolves
- Usually genitorectal but may be extragenital, depending on exposure site
- Clinical presentation, typical or atypical
- Typical: single painless, indurated, clean-based ulcer with rolled edges & bilateral painless adenopathy
- Atypical: can mimic herpes & other genital ulcers
- ~25% present with multiple lesions
- Lesions of primary and secondary syphilis can be present at the same time, especially in HIV positive individuals

# Differential Diagnosis

- Herpes (most common), primary HIV ulcers, chancroid, granuloma inguinale, trauma, and many non-STD infectious and non-infectious causes of genital ulcers
- More than one etiology can be present at the same time



Syphilitic Ulcer, Shaft



Multiple Syphilitic Ulcers, Shaft



Syphilitic Ulcer, Vulva



Crusted Syphilitic Ulcer, Urethra

## **Photo Credits**

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#### **To Order Additional Copies**

See the online version of the Primary Syphilis Algorithm on the clinical resources page of the CA PTC website: www.californiaptc.com

## Acknowledgements

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Syphilitic Ulcer, Shaft



Multiple Syphilitic Ulcers Resembling Herpe



Multiple Syphilitic Ulcers, Vulva



Syphilitic Ulcer, Perianal