
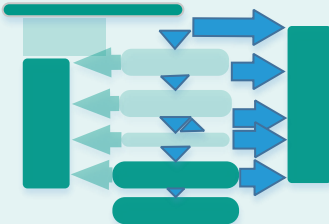




Point of Care Syphilis Desk Reference

Syphilis is a sexually transmitted infection (STI) caused by the bacterium *Treponema pallidum*. If untreated this chronic infection progresses through primary, secondary and tertiary stages, and produces neurosyphilis and congenital syphilis as distinct syndromes.

ASSESS RISKS	ASSESS SIGNS & SYMPTOMS	CHOOSE TEST ¹ (based on risk or symptoms)	TREATMENT ²	PUBLIC HEALTH ACTIONS for Healthcare Providers
<p>Epidemiology: https://www.hss.gov.nt.ca/sites/hss/files/resources/syphilis-rates.pdf</p> <ul style="list-style-type: none">Direct sexual contact with an infected partner <div><div>oral</div><div>anal</div><div>genital</div></div> <div><div><ul style="list-style-type: none">Unprotected sexHistory of STIsInjection drug use (IDU)Compromised decision making due to substances</div><div><ul style="list-style-type: none">Multiple sex partnersAnonymous sex partners</div></div> <p>Pregnancy</p> <div><div>Risk for congenital syphilis</div><div>vertical transmission</div></div>	<p>See page 2</p> 	<p>Swab</p> <ul style="list-style-type: none">chancereskin and mucous membrane lesions <p>Universal Transport Media for PCR</p> <p>Syphilis serology</p> <div><div></div><div>NWT Laboratory Requisition</div><div><div>SPECIAL CHEMISTRY (Gold Top Tubes)</div><div><input type="checkbox"/> TSH (progressive testing)</div><div><input type="checkbox"/> Serum HCG:</div><div><input type="checkbox"/> quantitative (Green Tube)</div><div><input type="checkbox"/> qualitative</div><div><input type="checkbox"/> Rheumatoid Factor</div><div><input type="checkbox"/> Monospot</div><div><input type="checkbox"/> Ferritin</div><div><input type="checkbox"/> PSA</div><div><input type="checkbox"/> HIV</div><div><input type="checkbox"/> Hepatitis B Ag</div><div><input type="checkbox"/> Hepatitis B Ab</div><div><input type="checkbox"/> Hepatitis C Ab</div><div><input checked="" type="checkbox"/> Syphilis</div></div></div>	<div><div><div>(01)00360793702049</div></div><div>NDC 60793-702-04</div><div>BICILLIN® L-A (penicillin G benzathine injectable suspension)</div><div>2,400,000 units per 4 mL</div><div>FOR DEEP INTRAMUSCULAR INJECTION ONLY</div><div>WARNING: FATAL IF GIVEN BY OTHER ROUTES</div><div><div>Distributed by Pfizer Inc New York, NY 10017</div></div></div>	<p>CLINICIAN</p> <ul style="list-style-type: none">Treat to prevent transmissionTest for other STIs (including HIV)Consider routine immunizations as well as HAV, HBV, HPVProvide case with serologic follow-up lab requisitions³Complete and send the NWT STI Case Investigation Form and the NWT STI Contact Tracing Form to Office of the Chief Public Health Officer (OCPHO) <p>FAX 867 873 0442</p> <p>OCPHO</p> <ul style="list-style-type: none">Acts as a resource to the fieldAudits case management and follow-upConducts epidemiologic analysis of sexually transmitted infections

¹**Syphilis Testing**

- Testing automatically includes EIA, RPR and TPPA.
- Detect *T. pallidum* infection with **nucleic acid amplification testing of lesions** of primary or secondary syphilis, or **by antibody detection**. ProvLab Alberta performs enzyme immunoassay (EIA) as an initial test followed by *T. pallidum* particle agglutination (TPPA) as a confirmatory test. Rapid plasma reagin (RPR) detects non-treponemal antibodies which increase during syphilis infection. Quantification of RPR titers through serial dilution estimates disease activity. By monitoring over time, RPR titers estimate response to treatment and can detect re-infection.

²**Syphilis Treatment**

- If clinicians diagnose or treat individuals empirically, they should still **TEST** and **NOTIFY** public health for appropriate follow up.
- Clinicians collaborate with OCPHO to stage syphilis.
- Diagnosis of congenital or neurosyphilis requires further investigations—please consult pediatrics, neurology, obstetrics or infectious disease as appropriate.
- If case is HIV positive consult with an infectious disease specialist.
- Long acting Benzathine penicillin G (Bicillin®) is preferred as it achieves detectable levels of penicillin for 2-4 weeks. **NAME ALERT: BENZYL PENICILLIN G IS SHORT-ACTING AND NOT APPROPRIATE FOR SINGLE DOSE OR WEEKLY THERAPY**
- If a person is a sexual contact of a person with confirmed primary, secondary, or early latent syphilis in the preceding 90 days, Public Health Agency of Canada endorses treatment with Benzathine penicillin G 2.4 million units IM as a single dose at the time of testing.
- If there is high concern for primary or secondary syphilis AND high concern that tested individuals will not follow up for treatment, use clinical judgement regarding empiric treatment at the time of testing.
- Interpretation of syphilis serology should be made in conjunction with the OCPHO and/or a colleague experienced in this area using: <https://www.albertahealthservices.ca/assets/wf/plab/wf-provlab-interpretation-of-syphilis-serology.pdf>

³Serologic follow-up of infectious syphilis is done 1, 3, 6 and 12 months after treatment. As set out in the CDN guidelines below, or as prescribed by an ID specialist, other follow-up is required for congenital, non-infectious and neurosyphilis as well as those with HIV.



Point of Care Syphilis Desk Reference

