

ashm DECISION MAKING IN SYPHILIS

1 Indications for testing

2 How to test

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Clinical indicators:

Symptoms and signs

- rash
- · genital lesion
- · unexplained clinical syndromes or laboratory results

Clinical context

- pregnancy
- any STI test
- any HIV test
- any STI diagnosis
- any contact with a case of syphilis (must also presumptively treat)
- PrEP

Presence of Risk Factors:

Behavioural

- · new partner
- MSM
- substance misuse
- sex work

Populations

- < 30 years old
- Aboriginal and Torres Strait Islander people
- Remote communities

When gaining informed consent before testing, discuss:

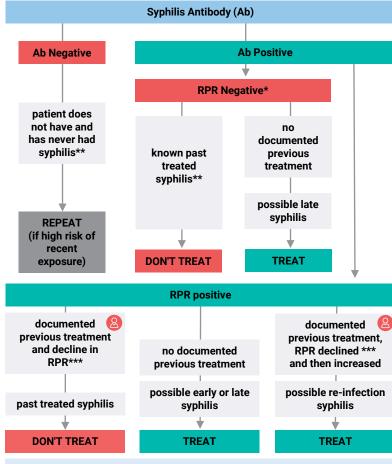
- Preferred gender of healthcare provider
- Need for an interpreter
- · Reason for test
- Personal implications of a positive test result
- Availability of curative treatment

To diagnose and determine disease stage of syphilis, diagnosis is by a combination of serology, PCR of lesions, past testing and treatment history and clinical assessment.

Baseline screening, request:	Further information
Syphilis serology - Syphilis antibody	Laboratory to perform initial syphilis specific antibody (CMIA/EIA) testing and confirmatory testing if positive (TPPA/TPHA and RPR/VDRL)
Syphilis NAAT or PCR swab of lesion.	Additional test if lesions present. Swab lesion. Must be accompanied by serology.
In addition, recommend comprehensive screening:	
HIV serology	Always co-test HIV unless known HIV positive (refer to Australian STI Management Guidelines for Use in Primary Care - HIV)
Hepatitis B and Hepatitis C serology	Unless not required (refer to Australian STI Management Guidelines for Use in Primary Care – hepatitis B & Australian STI Management Guidelines for Use in Primary Care – hepatitis C)

Standard asymptomatic check-up

3 Interpretation of syphilis serology



- * A positive screen with negative RPR is likely a false positive but could indicate early infection. High index of suspicious early infection, repeat testing.
- ** Exception: Very early infection, recent exposure and/or positive PCR on lesion. Repeat if required.
- *** The RPR is a marker for disease activity and treatment response. It declines after treatment and often reverts to non-reactive. 4-fold change required. Consult with a specialist when RPR is rising, or a 4-fold drop is not achieved by 12 months.

Disclaimer: Guidance provided on this resource is based on guidelines and best-practices at the time of publication. This quick-reference guide is not intended to be a comprehensive list of all available options.

For further information, refer to the Australian STI Management Guidelines for Use in Primary Care: http://www.sti.guidelines.org.au/sexually-transmissible-infections/syphilis CMIA – Chemiluminescent microparticle immunoassay; EIA – Enzyme immunoassay; TPPA - Treponema pallidum Particle Agglutination Assay; TPPA - Treponema pallidum Hemaglutination Assay; RPR – Rapid plasma reagin; VDRL - Venereal Disease Research Laboratory test; NAAT – Nucleic Acid Amplification Test @ASHM 2021 ISBN: 978-0-9581654-4-0

Gonorrhoea/

chlamydia

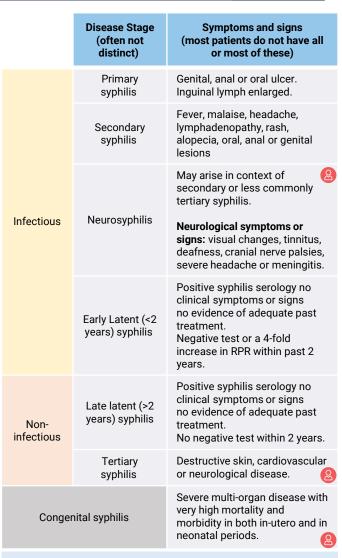


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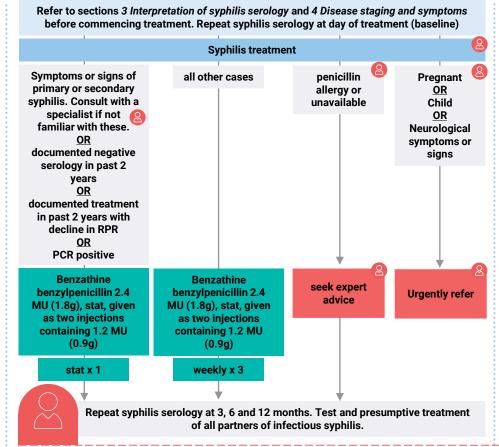
4 Disease staging and symptoms

5 Treatment

6 Follow-up



These stages are often not distinct, most patients do not develop all or most of these symptoms and signs.



Contact tracing:

- **Primary syphilis:** 3 months plus duration of symptoms
- Secondary syphilis: 6 months plus duration of symptoms
- Early latent: 12 months
- Late latent syphilis: long term partners only
- Advise no sexual contact for 7 days after treatment is administered.
- ✓ Advise no sex with partners from the last 3 months (primary syphilis), 6 months (secondary syphilis) or 12 months (early latent) until the partners have been tested and treated if necessary.
- Contact tracing and presumptive treatment of partners.
- Provide patient with factsheet.
- Notify the state/territory health department according to local procedures.

Consult with a specialist:

- Before commencing on treatment. Interpretation of syphilis serology is complex.
- Diagnosed during pregnancy. Seek urgent specialist advice for congenital syphilis.
- Positive syphilis results in a child. Additionally, discuss results urgently with child protective services.
- Unable to obtain Benzathine benzylpenicillin which is supplied as 1.2MU pre-filled syringes.

- Allergy to principal treatment choice and seeking alternative treatment option.
- Complicated syphilis. Refer those with acute neurological signs, symptoms or suspected tertiary disease to local sexual health or infectious diseases clinic.
- HIV co-infection.
 - RPR is rising or a 4-fold drop is not achieved by 12 months.
- Contact tracing is unclear.

