SYPHILIS CASE TRIAGE



* For interstate case <16 years old: if the case is present in NSW or has a sufficient connect to NSW, follow the above steps in this flowchart. See NSW specific syphilis guidance for 'Cases under 16 years' in the syphilis control guidelines for more information.

CONGENITAL SYPHILIS

Public health priority: HIGH Response: commence follow-up within 1 working day Data entry: commence within 3 working days



SYPHILIS IN PREGNANCY

Public health priority: HIGH

Response: commence follow-up within 1 working day **Data entry:** commence within 3 working days

New notification IMPORTANT: The assessment, management and followup of women with a positive syphilis Review notification and lab results Keep/create as 'New result in pregnancy is the responsibility of Event' No previous syphilis events? the managing clinician/s. Each local 1. Enter any laboratory results not received by 4-fold increase in RPR? -> health district must have clearly defined ELR Leave as 'Syphilis -Re-infection? Unspecified' until able to local protocols and processes. 2. Attach any relevant documentation to event classify Public health and/or sexual health staff Previous syphilis events? should ensure that the managing clinician Decreased/unchanged RPR titre? is aware of specialist services that are ¥ available for support. In collaboration with Update pregnancy status in Clinical Package. other services and as per local protocols, Review serology results. If no 4-fold rise in PHU/SHS staff should ensure that the RPR (i.e. not a re-infection), request merge Complete 'Gestational age at notification' and public health actions in this flowchart 'Expected delivery date' in Clinical Package. with most recent previous event have been completed. If <16 years old, update 'GP reminder letter sent' in Admin Package. Does the ordering clinician have sexual health Yes experience? (e.g. SHSs, s100s) No Send the managing clinician the notification form for their completion. Special arrangements may be made with your SHS to obtain enhanced surveillance data. Check eMR or contact the managing clinician to ascertain the following: Refer to local SHS; SHS to contact 1. Is the case engaged in care with a maternity service? ordering clinician to provide support. 2. Has the case had their universal antenatal syphilis screens as per the Policy Ordering clinician to refer to specialist Directive? 3. Has treatment been initiated? services, if required Refer to 'ASID Perinatal Guidelines - Algorithm 2' for guidance and 'Syphilis in Pregnancy and Newborns Policy Directive - Appendix 2' for antenatal screening recommendations Ensure that the managing clinician is aware of the Follow-up with the managing clinician specialist services available to them. and/or specialist teams to ascertain the following:

1. Ordered and are monitoring follow-up serological testing results
 2. Commenced appropriate treatment for the case
 3. Contact tracing is being undertaken

Re-engage in care
If required (especially if there are ongoing attempts to link case into care), the managing clinician should consider escalation/notification to following services:

 NSW Sexual Health Services (SHS)
 NSW Sexual Health Infolink (SHIL)
 Justice Health and Forensic Mental Health Network



SYPHILIS IN ANYONE NOT PREGNANT

INFECTIOUS SYPHILIS public health priority: HIGH Response: commence follow-up within 1 working day Data entry: commence within 3 working days

ROUTINE SYPHILIS public health priority: ROUTINE Response: commence follow-up within 3 working days Data entry: commence within 5 working days



required

Note that cases must be classified within 90 days of initial notification with the information available. If further information becomes available after this time, this should be added to the event and reclassified if necessary



Non-treponemal specific tests: RPR, VDRL

Definitions for infectious syphilis – less than two years duration

Laboratory definitive evidence

Seroconversion in past two years: treponemal specific test reactive when previous treponemal specific test non-reactive and the latest result is confirmed by either a reactive non-treponemal test or a different reactive treponemal specific test, or A four-fold or greater rise in non-treponemal antibody titre compared with the titre within the past two years, and a reactive treponemal specific test.

Laboratory suggestive evidence

Demonstration of *T. pallidum* by dark-field microscopy (not oral lesion), or direct fluorescent antibody microscopy, equivalent microscopic methods (e.g. silver stains), or DNA methods (e.g. nucleic acid testing), or

A reactive treponemal test confirmed by either a reactive non-treponemal test or a different reactive treponemal specific test, or

A reactive non-treponemal test confirmed by a treponemal specific test

<u>Clinical evidence</u>

Presence of a primary chancre (or ulcer) or clinical signs of secondary syphilis.

Confirmed case:

1) Laboratory definitive evidence, or

2) Laboratory suggestive evidence + clinical evidence

Probable case:

Requires that the case does not meet the criteria for a confirmed case and either:

A) In a person with no known previous reactive serology: no history of adequate treatment of syphilis, or endemic treponemal disease, and Contact with an infectious case and laboratory suggestive evidence or Laboratory suggestive evidence and RPR ≥16 or Positive syphilis IgM and laboratory suggestive evidence

 B) In a person with previous reactive serology: a fourfold or greater rise in nontreponemal antibody titre when the previous serology was done more than two years ago and
 Contact with an infectious case or
 Positive syphilis IgM

Definitions for syphilis >2 years or unknown duration

Laboratory definitive evidence

A reactive treponemal specific test which is confirmed by either a reactive non-treponemal test or by a different reactive treponemal specific test, and

A) In a person with no known previous reactive serology: no history of adequate treatment of syphilis, or endemic treponemal disease (e.g. Yaws), or

B) In a person with previously reactive serology: a four-fold or greater rise in non-specific treponemal antibody titre when the previous serology was done more than two years ago.

Laboratory suggestive evidence

Demonstration of *T. pallidum* by dark-field microscopy (not oral lesion), or direct fluorescent antibody microscopy, equivalent microscopic methods (e.g. silver stains), or DNA methods (e.g. nucleic acid testing), or

Clinical evidence

Clinical, radiological or echocardiographic signs of tertiary syphilis.

Confirmed case:

- 1) Laboratory definitive evidence, or
- 2) Laboratory suggestive evidence + clinical evidence

Below are some titre dilutions depicting a 4-fold increase and decrease:



RPRs are typically 1-2 titre dilutions higher than a VDRL. It is preferable to compare the same non-treponemal tests.