2023 Vertical Prevention Guidelines

R.MAITHUFI

Syphilis

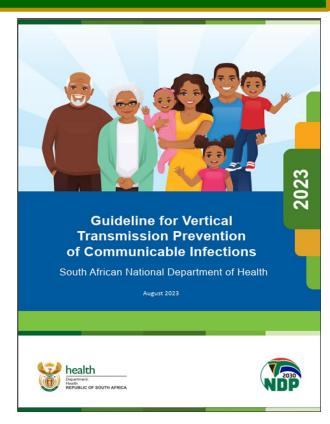




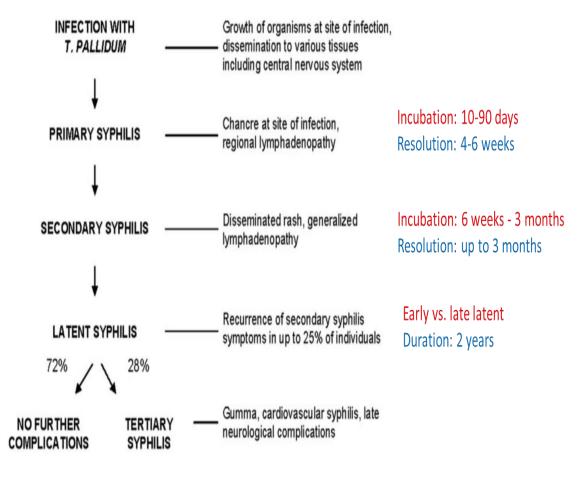


Vertical Transmission Prevention

Mother-to-child transmission



Syphilis natural history



 Treponema pallidum subspecies pallidum



Mode of transmission



Penetration of mucous membranes

Dermal microabberations

Bacteraemia





Resurgence of Syphilis in the Country

- Syphilis remains a significant cause of preventable perinatal death in SA.
- 2019 prevalence of syphilis is estimated at 2.6% (95% CI: 2.4%-2.9%)
- 30% increase in prevalence between 2015 and 2019
- Maternal syphilis screening coverage at first antenatal visit was 96.4% at national level.
- However, despite good antenatal attendance and early maternal syphilis testing, there has been a resurgence of congenital syphilis cases in many provinces in South Africa
- Adverse pregnancy outcomes occur in up to 80% of syphilis seropositive, untreated pregnant women
- South Africa has committed to dual elimination of both HIV and syphilis

Frequency testing

- A pregnant woman should be screened and tested for syphilis at her 1st/booking visit in antenatal care. If she tests negative, syphilis testing should be repeated:
 - Scheduled antenatal visits, at approximately 4-weekly intervals, e.g., for BANC+ clients, this could be at 20, 26-, 30-, 34-, and 38-weeks gestation
 - During her labor/delivery admission
 - At the time of diagnosis of an intrauterine death
 - At any time, if the mother has clinical symptoms or signs suggestive of syphilis
- Syphilis testing should be aligned with the HIV testing schedule:
 - If a woman tests positive for HIV, but tests negative for syphilis, repeat syphilis testing should continue at the intervals described above.
 - If a woman tests positive for syphilis but tests negative for HIV, repeat HIV testing should continue at recommended intervals

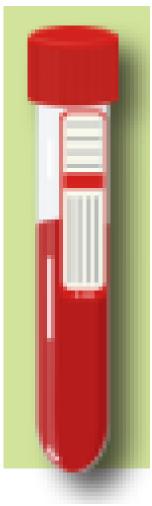
Types of syphilis tests and their uses: Rapid tests

- Specific (or treponemal) test for syphilis
- Remain positive for life, even if the infection has been treated.
- Positive rapid tests should be confirmed using an RPR test.
 - The RPR will determine if the positive rapid result indicates a current active infection or an earlier infection, and
 - the baseline titre allows the response to treatment to be monitored
- Once a woman has tested positive using a rapid test, a rapid test should no longer be used for routine screening to identify new infections at subsequent visits.
 - A rapid test cannot differentiate between a new and previous infection.
 - An RPR should then be used as the screening test to identify new infections



Types of syphilis tests and their uses: RPR

- Non-specific (or non-treponemal) tests
- Done in a laboratory.
- RPR titres change in response to treatment or disease progression.
- Used to confirm a positive rapid tests
 - The RPR will determine if the positive rapid result indicates a current active infection or an earlier infection, and
 - the baseline titre allows the response to treatment to be monitored

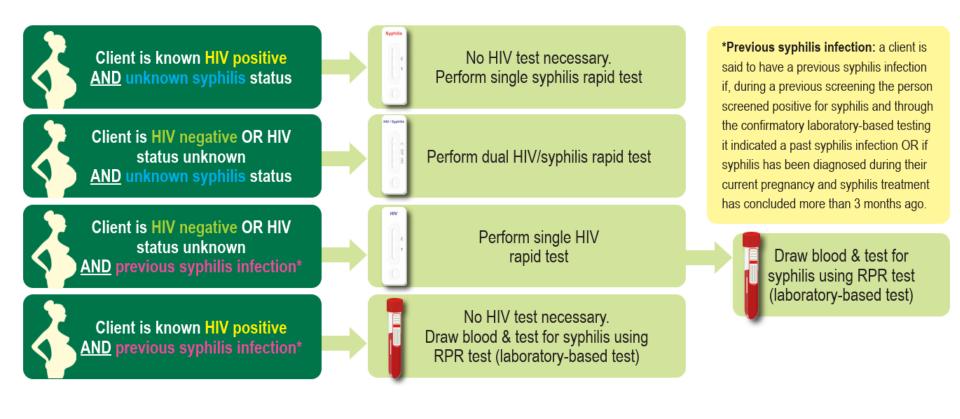


What to do when a facility does not have syphilis rapid tests in stock

- Rapid syphilis tests are available as a single rapid diagnostic test (RDT) that tests only for syphilis, and a dual RDT which tests for both syphilis and HIV using the same drop of blood.
 - Dual syphilis and HIV rapid tests should only be used in clients
 - Whose HIV status is negative or unknown AND
 - Who have not had a previous syphilis infection

Clients who are already known to be living with HIV should NOT be re-tested for HIV and should therefore not use a dual syphilis and HIV rapid test!

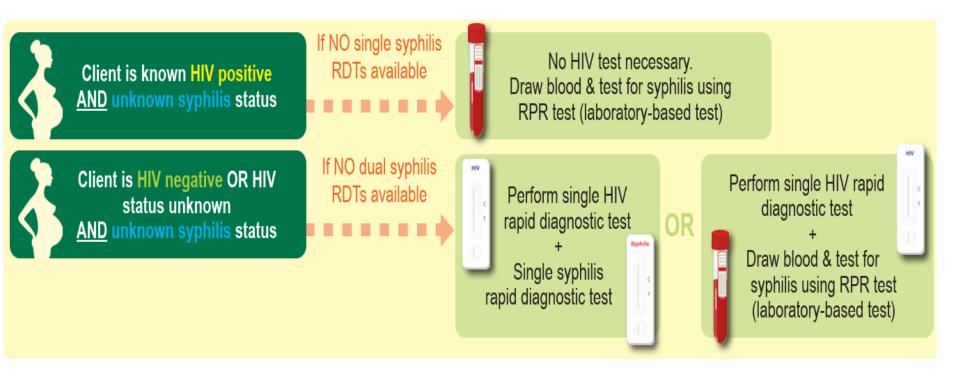
Which test should be used when?







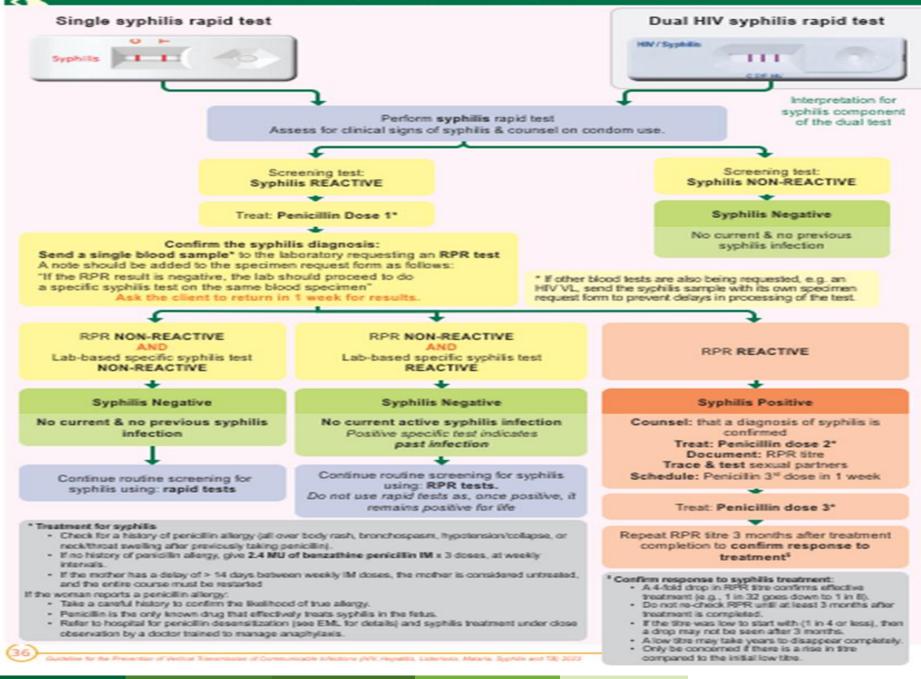
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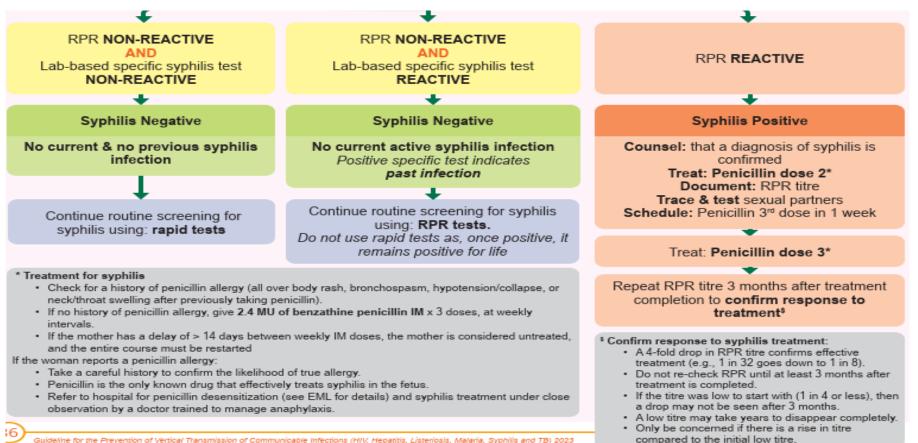




SYPHILIS RAPID DIAGNOSTIC TESTING



Continuation



Guideline for the Prevention of Vertical Transmission of Communicable Infections (HIV, Hepatitis, Listeriosis, Malaria, Syphilis and TB) 2023





A 4-fold drop in RPR titre confirms effective treatment (e.g., 1 in 32 goes down to 1 in 8).

Confirm response to syphilis treatment

Do not re-check RPR until at least 3 months after treatment is completed.

If the titre was low to start with (1 in 4 or less), then a drop may not be seen after 3 months.

A low titre may take years to disappear completely.

Only be concerned if there is a rise in titre compared to the initial low titre.

Treatment for syphilis

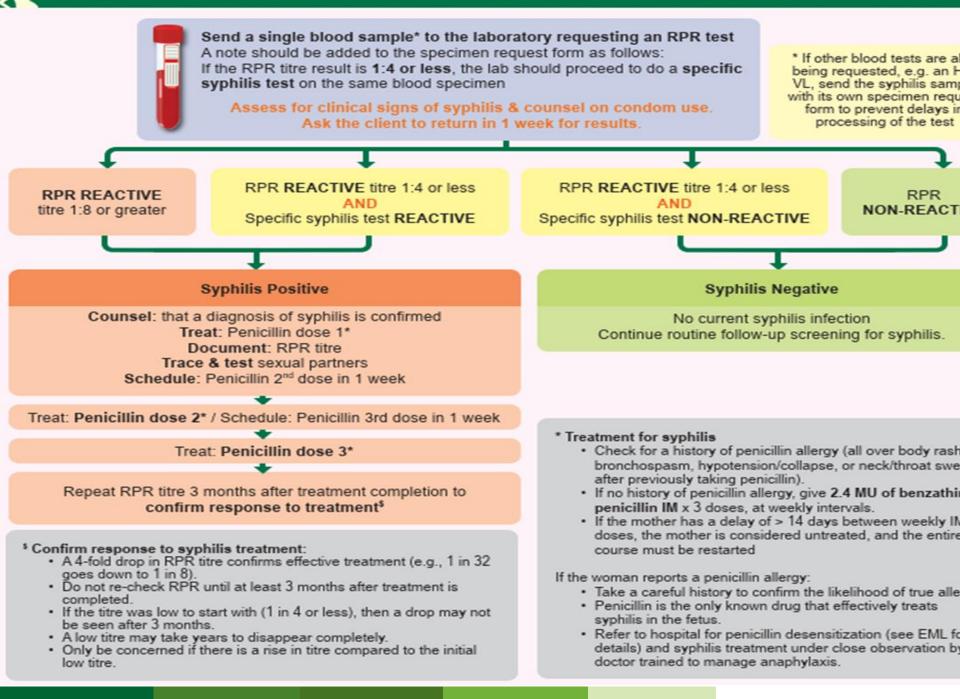
- Check for a history of penicillin allergy
 - All-over body rash, bronchospasm, hypotension/collapse, or neck/throat swelling after previously taking penicillin
- If no history of penicillin allergy, give
 - 2.4 MU of benzathine penicillin IM x 3 doses, at weekly intervals
- If the mother has a delay of > 14 days between weekly IM doses, the mother is considered untreated, and the entire course must be restarted
- If the woman reports a penicillin allergy:
 - Take a careful history to confirm the likelihood of true allergy.
 - Penicillin is the only known drug that effectively treats syphilis in the fetus.
 - Refer to hospital for penicillin desensitization (see EML for details) and syphilis treatment under close observation by a doctor trained heaton manage anaphylaxis.



Department: Health REPUBLIC OF SOUTH AFRICA



LABORATORY-BASED TESTING WHEN RAPID TESTS ARE UNAVAILABLE OR INAPPROPRIA



Congenital syphilis

- 30-40% of babies who acquire syphilis inutero, die shortly before or after birth
- 2 considerations:
 - Babies' clinical symptoms
 - Mother's treatment status





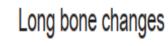
Syphilis symptoms in the newborn



Seizures



- Jaundice, Hepatomegaly
- Splenomegaly



- Pallor, Petechiae
- 00. 00.
- Large, pale, greasy placenta
- Growth restriction



Peeling Rash, Oedema Nonimmune fetal hydrops



Loss of eyebrows, chorioretinitis, uveitis, cataract, glaucoma

- Nasal discharge ("snuffles")
- Pneumonia

Myocarditis







Definition - Inadequately or untreated mother:

Inadequately treated mother

- Mother did not complete three doses in full, or
- Mother received three doses but there was a delay of > 14 days between weekly IM doses, or
- Last dose was not more than 30 days before delivery, or
- Dose that the mother received was incorrect was incorrect

Untreated mother:

- Mother did not receive any treatment for syphilis, or
- Mother was treated for syphilis with an antibiotic that was not penicillin





Mandatory notification for congenital syphilis

- Category 2 Notifiable Medical Condition (NMC):
 - Health care workers must notify all cases of congenital syphilis within 7 days of diagnosis.
- Stillbirths due to syphilis should also be notified.
 - Remember to test or re-test all negative mothers with stillbirths or miscarriages for syphilis at the time of presentation



