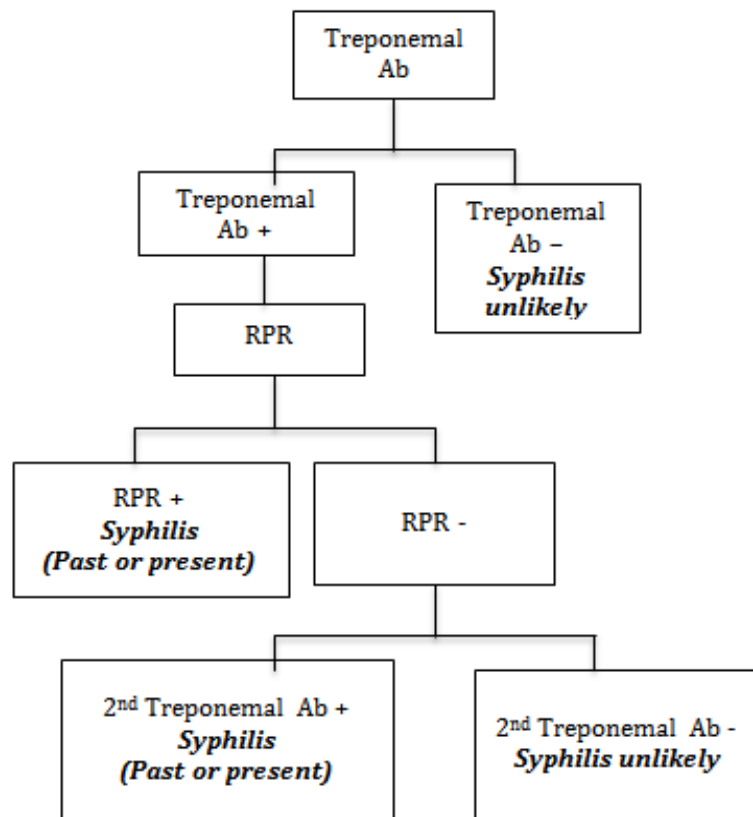


WakeMed Pathology Syphilis Testing Algorithm

Reverse algorithm: Patients will be screened with a Treponemal Antibody test. Reactive Treponemal Antibody tests will have a non-treponemal RPR performed for confirmation. If the RPR is reactive, a titer will be performed. If the RPR is nonreactive (and the patient does not have a previous positive Treponemal Antibody result) a second Treponemal Antibody test will be performed to help determine if the patient is positive for Syphilis infection. See the figure below for the workflow:



WakeMed Pathology

Syphilis Testing Algorithm

Epic Ordering Options with the Reverse Algorithm:

1. **Syphilis Screen with Confirmation:**
 - a. This is a Treponemal Antibody test (IgM/IgG) and it will be the primary Syphilis screening test for all patients. Any additional testing such as the RPR, RPR titer, or a second Treponemal Antibody test will automatically reflex if necessary, according to the new algorithm.
 - b. Epic Order ID: LAB3728
 - c. Soft Order ID: RPR
2. **Neonatal RPR:**
 - a. This test should only be ordered on patients ≤ 28 days old. Per CDC recommendations, neonates should only be screened for syphilis by the RPR method. An RPR titer and Treponemal confirmation will automatically reflex if necessary. Reactive neonatal RPRs will be sent for Treponemal confirmation testing (The WakeMed Treponemal Ab assays are not validated for the neonatal population).
 - b. Epic Order ID: LAB3729
 - c. Soft Order ID: NRPR
3. **RPR for Syphilis Treatment Monitoring:**
 - a. This test should only be ordered on patients with a previously confirmed Syphilis infection. The intent of this test is to check the RPR titer to monitor treatment efficacy. Treponemal confirmations are not performed with this test. When ordered in Epic, a BPA (Best Practice Alert) will remind the provider that 'This test is intended for monitoring the RPR titer of patients with a previously confirmed syphilis infection for treatment efficacy purposes. Refer to the test 'Syphilis Screen with confirmation' for testing on patients that do not meet this criterion.'
 - b. Epic Order ID: LAB3736
 - c. Soft Order ID: RPRTM

Important Notes about the Reverse Algorithm:

1. The syphilis screening test will be performed on all shifts on an automated platform in the Raleigh Core lab, providing decreased turn-around time.
2. Patients that have been treated for syphilis; even if their treatment was successful, will likely continue to be positive for the Syphilis Screen test for life. For this reason, an RPR will always be performed if the Treponemal Ab test is reactive to help differentiate between a past and a present syphilis infection. For instances of discrepant Treponemal Ab and RPR tests, please consult with Infectious Disease for guidance.