

# Connecticut Department of Public Health Laboratory STD Testing Services

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# Virology/Serology/STDs Laboratory Section

Phone: 860-920-6662 Fax: 860-920-6661

- Chlamydia/Gonorrhea
- Syphilis
- Herpes
- HIV
- Hepatitis B & C

\*Trichomonas Vaginalis testing is NOT available at this time\*

Please fill out a completed  
Clinical Test Requisition,  
Form OL-9B, for each  
Specimen Source/Type  
submitted.

<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center; margin: 0;">Client Authorized Submitter Street Address City, State, Zip</p> </div> <p>◆ LAB PROFILE Number: _____</p>	<p><b>CLINICAL TEST REQUISITION</b> STATE OF CONNECTICUT Dr. Katherine A. Kelley State Public Health Laboratory 395 West Street, Rocky Hill, CT 06067 CLIA ID 07D0844555 / CT License CL-0197 Phone 860-920-8500 CLIENT SERVICES 860-920-6635</p>	<div style="border: 1px solid black; padding: 5px; margin: 0;"> <p><b>ACCESSION LABEL</b> FOR CTDPH LABORATORY USE ONLY</p> </div>
<p>◆ DENOTES REQUIRED INFORMATION</p>		
<p><b>Section 1: Patient Information</b> (Please Print Clearly)</p>		
<p>◆ Name (Last, First, M.I.) or Identifier: _____</p>		
<p>◆ Street Address: _____</p>		<p>◆ City, State, Zip: _____</p>
<p>◆ Date of Birth: _____</p>	<p>Gender: <input type="checkbox"/> Female <input type="checkbox"/> Male <input type="checkbox"/> Unknown    Home Phone: _____</p>	
<p>Race (check all that apply): (◆ Race/Ethnicity Information is Required for Blood Lead)</p> <p><input type="checkbox"/> White <input type="checkbox"/> Black/African Amer. <input type="checkbox"/> Asian <input type="checkbox"/> Amer. Indian/Alaska Nat. <input type="checkbox"/> Nat. Hawaiian/Other Pacific Islander <input type="checkbox"/> Other <input type="checkbox"/> Unknown</p> <p>Ethnicity: <input type="checkbox"/> Hispanic <input type="checkbox"/> Non-Hispanic <input type="checkbox"/> Unknown</p>		
<p>Ordering Healthcare Provider: _____</p>		<p>Phone: _____</p>
<p><b>Section 2: Specimen Information</b></p>		
<p>◆ Specimen Storage (Prior to Delivery): <input type="checkbox"/> Refrigerated (2-8°C) <input type="checkbox"/> Frozen (&lt;-20°C) <input type="checkbox"/> Ambient Temperature</p>		
<p>◆ Specimen Transport/Delivery: <input type="checkbox"/> Cold (Ice pack) <input type="checkbox"/> Frozen (Dry Ice) <input type="checkbox"/> Ambient Temperature</p>		
<p>Submitter Sample ID: _____</p>	<p>◆ Date Collected: _____</p>	<p>Time Collected: _____ <input type="checkbox"/> AM <input type="checkbox"/> PM</p>
<p>◆ Specimen Source/Type:</p> <p><input type="checkbox"/> Blood (whole) <input type="checkbox"/> Bronchial Wash <input type="checkbox"/> Buccal cavity <input type="checkbox"/> Cervix <input type="checkbox"/> CSF <input type="checkbox"/> Nasopharynx <input type="checkbox"/> Oropharynx <input type="checkbox"/> Plasma</p> <p><input type="checkbox"/> Rectal <input type="checkbox"/> Serum <input type="checkbox"/> Sputum <input type="checkbox"/> Stool <input type="checkbox"/> Urethra <input type="checkbox"/> Urine <input type="checkbox"/> Vaginal</p> <p><input type="checkbox"/> Body Fluid, specify _____ <input type="checkbox"/> Tissue, specify _____</p> <p><input type="checkbox"/> Other, specify _____</p>		
<p><b>◆ Section 3: Select Testing Requested</b></p>		
<p><b>Bacteriology</b></p> <p><input type="checkbox"/> AFB Clinical Specimen (Mycobacteria Smear &amp; Culture)</p> <p><input type="checkbox"/> AFB Referred Culture (Mycobacteria for Identification)</p> <p><input type="checkbox"/> Bioterrorism Agent Identification specify agent: _____</p> <p><input type="checkbox"/> Bordetella pertussis (DFA, Culture) <input type="checkbox"/> (DNA amplification)</p> <p><input type="checkbox"/> Chlamydia/ Gonorrhea Nucleic Acid Amplification Test</p> <p><input type="checkbox"/> CRE panel Organism: _____</p> <p><input type="checkbox"/> EIP Isolates for Identification (Check one)</p> <p><input type="checkbox"/> Group A Streptococcus <input type="checkbox"/> H. influenzae <input type="checkbox"/> L. monocytogenes</p> <p><input type="checkbox"/> N. meningitidis <input type="checkbox"/> S. pneumoniae <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Enteric Isolate for Identification</p> <p><input type="checkbox"/> Campylobacter <input type="checkbox"/> E. coli O157 <input type="checkbox"/> Salmonella <input type="checkbox"/> Shigella</p> <p><input type="checkbox"/> Shiga-toxin producing E. coli <input type="checkbox"/> Vibrio <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Enteric (Stool) Culture <input type="checkbox"/> CIDT Organism: _____</p> <p><input type="checkbox"/> Shiga-toxin (+) Broth Culture</p>	<p><b>Virology</b></p> <p><input type="checkbox"/> Arbovirus IgG/IgM (Encephalitis Viruses) <i>California Group, Eastern Equine, St. Louis, Western Equine</i></p> <p><input type="checkbox"/> Hepatitis B Surface Antibody</p> <p><input type="checkbox"/> Hepatitis B Surface Antigen</p> <p><input type="checkbox"/> Hepatitis C Testing</p> <p><input type="checkbox"/> Herpes Simplex IgG Antibody</p> <p><input type="checkbox"/> Herpes Simplex DNA amplification</p> <p><input type="checkbox"/> HIV-1/HIV-2 Ag/Ab</p> <p><input type="checkbox"/> HIV Viral Load</p> <p><input type="checkbox"/> Influenza PCR</p> <p><input type="checkbox"/> Measles PCR</p> <p><input type="checkbox"/> MERS CoV (Novel Coronavirus) (Epidemiology Approval Required)</p> <p><input type="checkbox"/> Mumps PCR</p> <p><input type="checkbox"/> Norovirus PCR (Epidemiology Approval Required)</p> <p><input type="checkbox"/> Respiratory Virus Antigen Panel: Adenovirus, Human Metapneumovirus, Parainfluenza, Rhinovirus/Enterovirus, RSV</p> <p><input type="checkbox"/> Varicella Zoster IgG Antibody</p> <p><input type="checkbox"/> West Nile Virus IgM Antibody</p> <p><input type="checkbox"/> Virus Identification (Tissue Culture)</p> <p><b>NOTE: Zika virus testing requires submission of the Zika Virus Clinical Test Requisition</b></p> <p><b>SARS-CoV-2 requires COVID-19 requisition form</b></p>	
<p><b>Bacterial Serology</b></p> <p><input type="checkbox"/> QuantiFERON-TB Test (Specify ◆ Date &amp; Time Collected Above)</p> <p><input type="checkbox"/> Syphilis Screen (VDRL)</p> <p><input type="checkbox"/> Syphilis Confirmation (VDRL &amp; TP-PA)</p> <p><input type="checkbox"/> Syphilis CSF (VDRL Only)</p>	<p><b>Test, Agent or Disease, Not Listed (Specify)</b></p>	
<p><b>Blood Lead (Uninsured Patients ONLY) ◆ Race/Ethnicity Required</b></p> <p><input type="checkbox"/> Child Lead Screen (Capillary Blood)</p> <p><input type="checkbox"/> Lead Confirmation (Venous Blood)</p>	<p><b>Comments</b></p>	
<p><b>Mycology</b></p> <p><input type="checkbox"/> Candida auris identification</p>		
<p><b>Parasitology</b></p> <p><input type="checkbox"/> Blood Parasite - Smear</p>		

# Chlamydia & Gonorrhea Testing

- **Test Description:** Qualitative detection and differentiation of ribosomal RNA (rRNA) from *Chlamydia trachomatis* and/or *Neisseria gonorrhoeae* in genital, extra genital and urine specimens.
- **Methodology:** Target amplification nucleic acid probe test (Aptima Combo 2 on the Panther System)
- **Intended Use:** As an aid in the diagnosis of chlamydial and gonococcal diseases in symptomatic or asymptomatic individuals.
- **Specimen Types:**
  - Vaginal, Throat & Rectal Swabs (*Aptima Multitest Swab Specimen Collection Kit*)
  - Endocervical and Male Urethral Swabs (*Aptima Unisex Swab Specimen Collection Kit*)
  - Urine (*Aptima Urine Specimen Collection Kit*)
- **Specimen Storage:** Store collected specimen tubes between 4°C to 30°C. Urine samples must be tested within 30 days. Swab specimens must be tested within 60 days.
- **Collection Instructions:** Follow instructions provided with each specific collection kit.
  - Rectal, throat, endocervical & male urethral swabs: clinician-collected ONLY. Vaginal swabs: clinician-collected OR patient-collected (not for home use).
  - Specimen must be collected before the expiration date on the collection kit.

# Syphilis Testing- Screen & Confirmation

- **Test Description:** Non-treponemal assay for the detection of reagin in serum. Reactive results are tittered to end point and confirmed with a treponemal-specific test
- **Methodology:** VDRL (Venereal Disease Research Laboratory) Slide Flocculation Test
- **Intended Use:** Serologic screen to aid in the diagnosis of primary, secondary or tertiary syphilis and for post-treatment evaluation.  
CSF – To rule out neurosyphilis in patients with neurological symptoms.
- **Specimen Types:** Serum, Cerebrospinal fluid (CSF)
- **Specimen Storage:** Store at 2-8°C. Specimens must be received within 5 days of collection.

# Syphilis Testing- Screen & Confirmation

- **Test Description:** Detection of *Treponema pallidum* antibodies in human serum or plasma.
- **Methodology:** *Treponema pallidum* Particle Agglutination Assay (TP-PA)
- **Intended Use:** To confirm reactive results of non-treponemal syphilis screening (such as VDRL or RPR); as a diagnostic test in individuals with a nonreactive non-treponemal test result but with symptoms suggestive of late syphilis.
- **Specimen Types:** Serum, Plasma
- **Specimen Storage:** Store at 2-8°C. Specimens must be received within 5 days of collection.

# Herpes Simple Virus (HSV) DNA Testing

- **Test Description:** Qualitative assay for the detection of Herpes simplex virus 1 and 2 DNA in human specimens.
- **Methodology:** Loop-mediated amplification and detection.
- **Intended Use:** Direct detection and differentiation of herpes simplex virus 1 and 2 to aid in the diagnosis of infection.
- **Specimen Types:** Cutaneous or mucocutaneous lesion swab submitted in viral transport media, 1-3 mL.
- **Specimen Storage:** Store at 2-8°C. Specimens must be received and tested within 7 days of collection.

# Herpes Simplex Virus IgG Antibody Testing

- **Test Description:** Qualitative assay for the detection of IgG antibodies to herpes simplex virus (HSV) type 1 and type 2 in human serum. This test does not differentiate between type 1 or type 2.
- **Methodology:** Enzyme immunoassay (EIA)
- **Intended Use:** As an indication of past infection with herpes simplex virus to identify asymptomatic carriers.
- **Specimen Types:** Serum
- **Specimen Storage:** Store at 2-8°C. Specimens must be received within 2 days of collection.



Current Testing CT DPH LAB

# HIV/Hepatitis Testing

- HIV 1/2 Antibody/Antigen Enzyme Immunoassay (EIA)
- HIV 1 & 2 Antibody Differentiation Assay (BioRad Geenius)
- HIV-1 RNA Viral Load (plasma only)
- Hepatitis C Antibody Enzyme Immunoassay (EIA)
- Hepatitis C RNA Viral Load (serum and plasma)
- Hepatitis B Surface Antibody Enzyme Immunoassay (EIA)
- Hepatitis B Surface Antigen Enzyme Immunoassay (EIA)

# State of Connecticut Department of Public Health

## State Public Health Laboratory Website

- Laboratory Resources:

- **Collection Supplies and Test Requisition Forms**

- <https://portal.ct.gov/DPH/Laboratory/Scientific-Support/Scientific-Support-Services>

Collection supplies may be requested by calling Scientific Support Services at 860-920-6674 for by submitting an email request to [dph.outfitroom@ct.gov](mailto:dph.outfitroom@ct.gov)

- **Directory of Clinical Testing Services**

- <https://portal.ct.gov/DPH/Laboratory/Clinical-Testing-Services/DCTS-101915>

# What Happens at the Lab

## Sample Receiving Area

- Sample Evaluation
- Requisition Evaluation
- Accessioning & Data Entry in LIS
- Delivery to Laboratory for Testing

## Testing Laboratory

- Specimen: checked for proper labeling (name on tube must match name on test requisition), volume, proper collection tube for sample type & tube outdate (CT/GC). Serum is aliquoted into transfer tubes and frozen.
- Requisitions checked for errors and omissions.

# Testing Laboratory Activity

- Testing, Reporting and Checking Results for Accuracy.
- Quality Assurance Report sent out for test requests with sample or requisition inconsistencies and omissions.
- Testing Not Performed if specimen unlabeled, no specimen or inadequate specimen in tube, wrong collection kit for sample type collected, broken or leaking.
- **Positive results:**
  - Syphilis VDRL reactive and TPPA reactive results called to submitter
  - All positive HIV results called to submitter
  - CT/GC, Herpes, Hepatitis positive results not called out unless a quality assurance issue needs to be resolved.

# Syphilis Serology

The diagnosis of syphilis infection still relies on both clinical evaluation and one of two multitest laboratory testing algorithms to indicate current or past infection with *Treponema pallidum*.

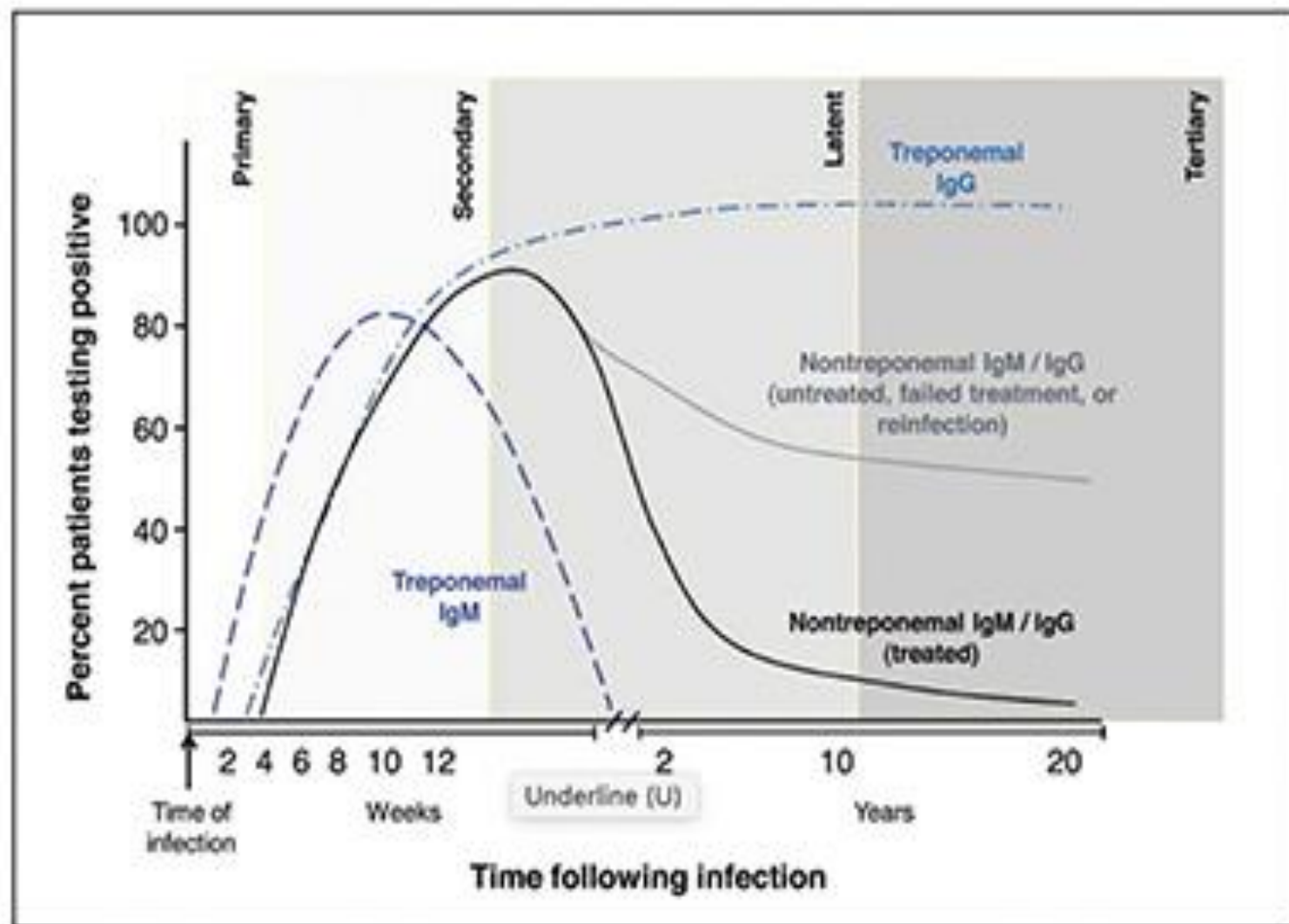
Two types of serological Syphilis tests:

- **Treponemal assays** – detect antibodies to *T. pallidum*.

Treponemal tests include either IgM, IgG or total (IgG/IgM) antibodies. Antibodies detected by treponemal tests arise earlier than those detected by non-treponemal tests and typically remain detectable for life, even after successful treatment.

- **Nontreponemal assays** – detect antibodies (IgG/IgM) directed against lipoidal antigens (cardiolipin, cholesterol and lecithin), released as a consequence of cell damage, which is elevated in numerous chronic conditions and infections including syphilis.

Nontreponemal tests can provide an end point titer for positive samples. Titers decline after proper treatment over a period of months to years.



From Soreng K, Levy R, Fakile Y. Serologic testing for syphilis: Benefits and challenges of a reverse algorithm. Clin Microbiol News 2014;36:195-202.

**Table 1: Serologic Methods for Syphilis Diagnosis**

Method	Manual vs. Automated	Antibodies
<b>Nontreponemal</b>		
Venereal Disease Research Laboratory (VDRL) <sup>a</sup>	Manual	
Rapid plasma reagin (RPR)	Manual or Automated	
Toluidine red unheated serum test (TRUST)	Manual	
Unheated serum reagin (USR)	Manual	
<b>Treponemal</b>		
Fluorescent treponemal antibody absorption (FTA-ABS) <sup>a</sup>	Manual	IgM/IgG
<i>Treponema pallidum</i> particle agglutination (TP-PA) assay <sup>a</sup>	Manual	IgM/IgG
Line immunoassay (LIA)	Manual	IgG
Enzyme-linked immunoassay (EIA)	Manual/Automated	IgG or IgM/IgG
Chemiluminescent immunoassay/Chemiluminescent microparticle immunoassay (CIA/CMIA)	Automated	IgG or IgM/IgG
Microbead immunoassay (MBIA)	Automated	IgG or IgM/IgG
Rapid antibody test	Manual	IgG

a. These methods may be performed on cerebrospinal fluid (CSF) to support a diagnosis of neurosyphilis. For further information on diagnosis of neurosyphilis please refer to the *Consultation on Laboratory Diagnosis of Syphilis*<sup>10</sup> and the *CDC STD Treatment Guidelines*.<sup>11</sup>

# Traditional Syphilis Serology Testing Algorithm

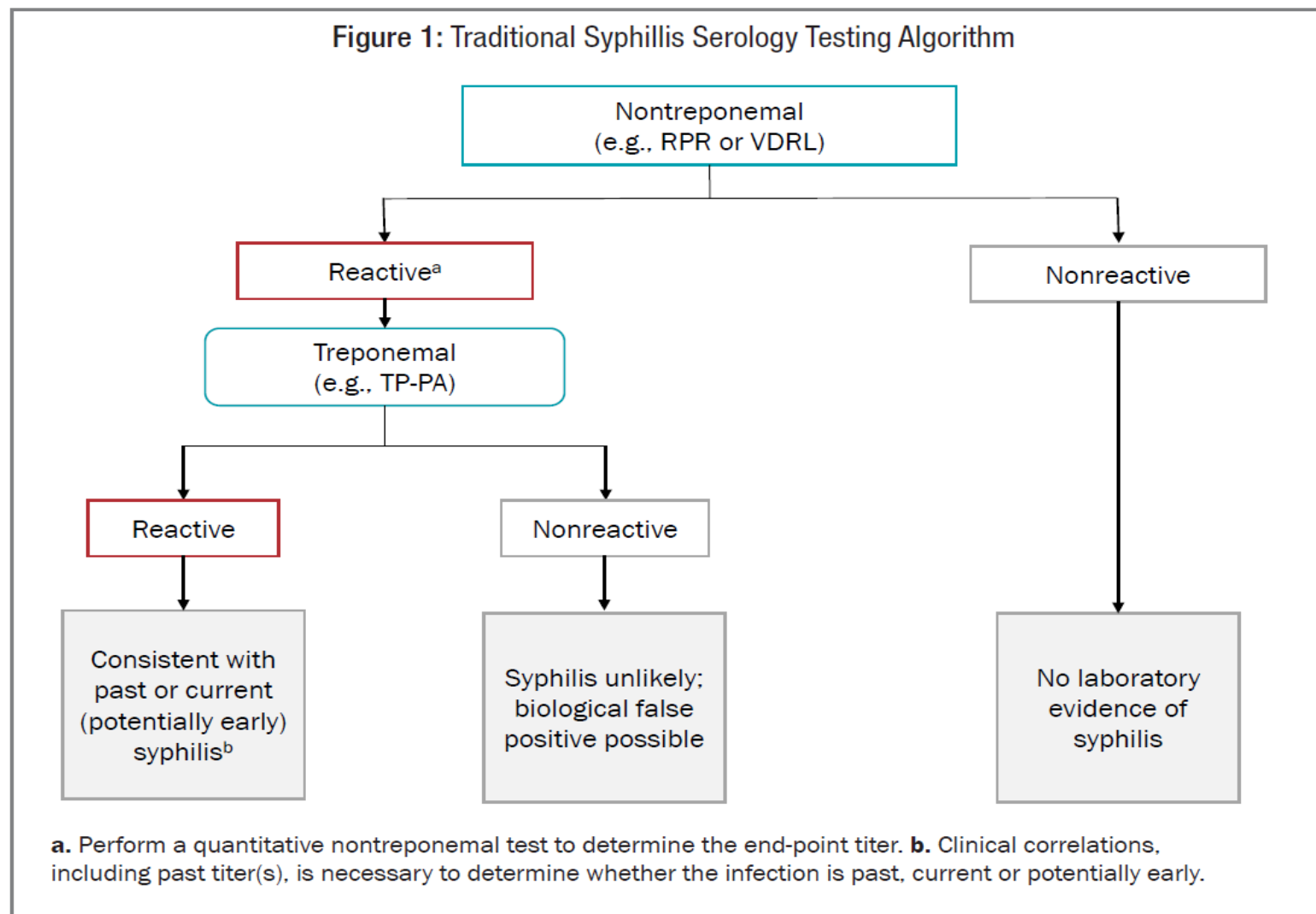




Table 2: Guidance for Reporting Results from the Traditional Syphilis Serology Testing Algorithm performed on Seruma

Test Outcomes	Test Sequence			Interpretation for Laboratory Report	Further Actions <sup>c</sup>
	Step 1 <sup>a</sup>	Step 1 <sup>b</sup>	Step 2		
	Nontreponemal Assay (Qualitative) <sup>b</sup>	Nontreponemal Assay (Quantitative)	Treponemal Assay		
	Nonreactive	Not Indicated	Not Indicated	No laboratory evidence of syphilis	If recent exposure is suspected, redraw sample in 2-4 weeks and repeat algorithm.
	Weakly Reactive <sup>d</sup>	Weakly Reactive <sup>de</sup>	Nonreactive	Nontreponemal antibodies detected. Syphilis unlikely; biological false positive possible <sup>f</sup>	Clinical evaluation should be performed to identify signs, symptoms or past history of infection. If recent exposure is suspected, redraw sample in 2-4 weeks and repeat algorithm.
	Weakly Reactive <sup>d</sup>	Weakly Reactive <sup>de</sup>	Reactive	Treponemal antibodies detected. Consistent with past or current (potential early) syphilis	Clinical evaluation should be performed to identify current signs and symptoms and past history of infection or treatment. If recent exposure is suspected, redraw sample in 2-4 weeks and repeat algorithm.
	Reactive	Reactive at $\geq 1:1^e$	Nonreactive	Nontreponemal antibodies detected. Syphilis unlikely; biological false positive possible	Clinical evaluation should be performed to identify current signs and symptoms or past history of infection or treatment. If recent exposure is suspected, redraw sample in 2-4 weeks and repeat algorithm.
	Reactive	Reactive at $\geq 1:1^e$	Reactive	Treponemal and nontreponemal antibodies detected. Consistent with past or current (potential early) syphilis	Clinical evaluation should be performed to identify current signs and symptoms and past history of infection or treatment.
	<b>Special Circumstances: Not recommended in algorithm, for use if both tests are ordered by provider.</b>				
	Nonreactive	Not Indicated	Nonreactive	No laboratory evidence of syphilis	If recent exposure is suspected, redraw sample in 2-4 weeks and repeat algorithm.
	Nonreactive	Not Indicated	Reactive	Treponemal antibodies detected. Consistent with past or current (potential early) syphilis	Clinical evaluation should be performed to identify current signs and symptoms and past history of infection or treatment. If past treatment reported, no further management is needed unless recent exposure suspected. If no past history of treatment and recent exposure is suspected, redraw sample in 2-4 weeks and repeat algorithm

a. This table is for testing and reporting of serum specimens only. b. If the result is nonreactive or weakly reactive, consideration should be given to the possibility of the prozone effect. c. Comments under "Further Action" can be included as language in the laboratory report or can be used as guidance for laboratorians to discuss test results with health care providers. d. A weakly reactive result is a reportable result from VDRL and RPR. e. Refer to package insert for specific reporting language, for certain methods a 1:1 titer may be reported as minimally reactive in certain circumstances. f. For a summary of factors associated with biological false positives review Topic 2, Recommendation 8 of APHL Consultation on Laboratory Diagnosis of Syphilis, Meeting Summary Report.<sup>9</sup>

# Reverse Syphilis Serology Testing Algorithm

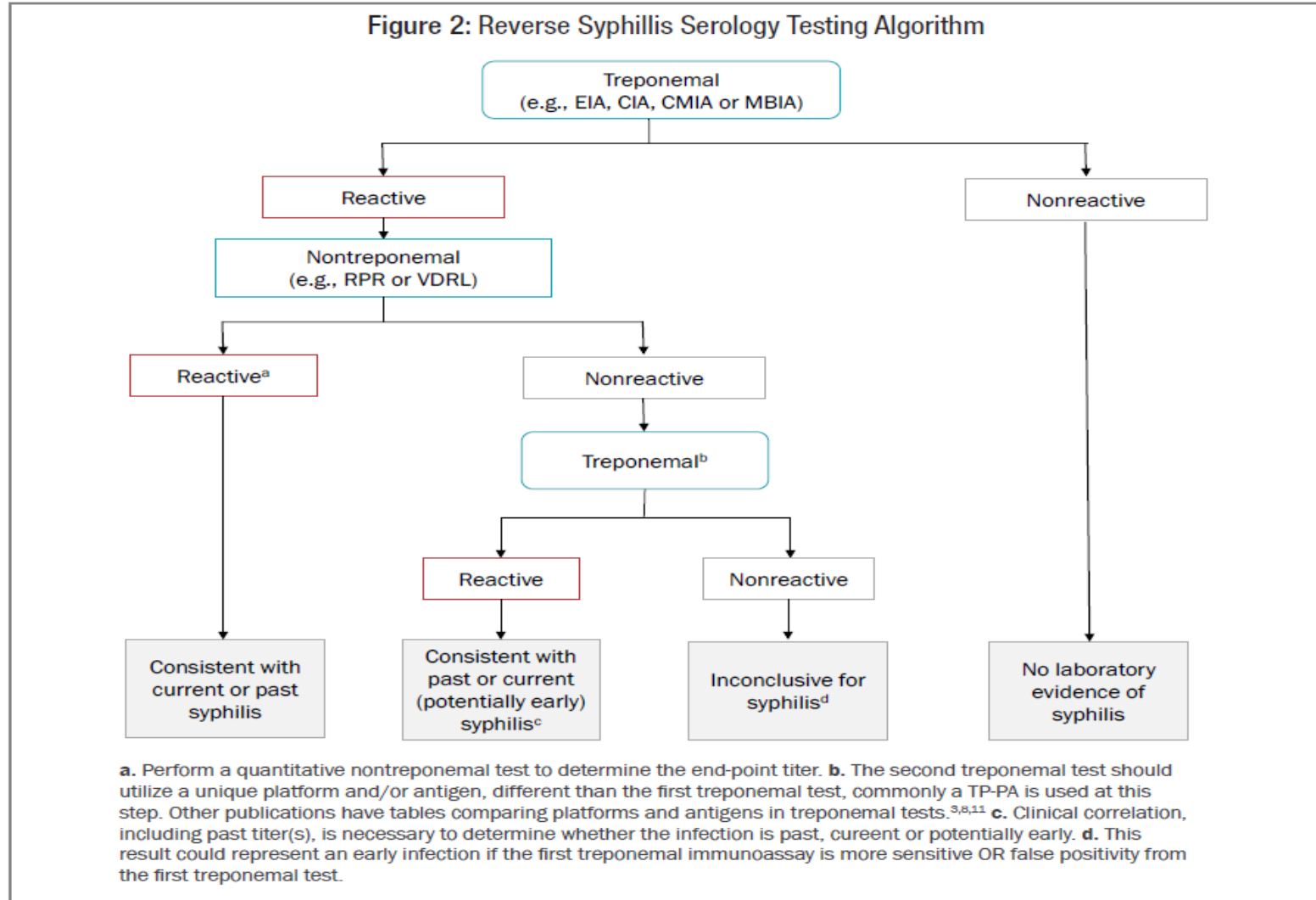


Table 3: Guidance for Reporting Results from the Reverse Syphilis Serology Testing Algorithm performed on Serum<sup>a</sup>

Test Outcomes	Test Sequence			Interpretation for Laboratory Report	Further Actions <sup>c</sup>
	Step 1	Step 2	Step 3		
	Treponemal Assay	Nontreponemal Assay (Quantitative) <sup>b</sup>	Treponemal Assay	Interpretation for Laboratory Report	Further Actions <sup>c</sup>
	Nonreactive	Not Indicated	Not Indicated		
	Reactive	Nonreactive	Nonreactive		
	Reactive	Nonreactive	Reactive		
	Reactive	Reactive at $\geq 1:1^d$	Not Indicated	Treponemal and nontreponemal antibodies detected. Consistent with current or past syphilis.	Clinical evaluation should be performed to identify current signs and symptoms or past history of infection.
<b>Special Circumstances: Not recommended in algorithm, for use if both tests are ordered by provider.</b>					
	Nonreactive	Reactive at $\geq 1:1^d$	Nonreactive	Nontreponemal antibodies detected. Syphilis unlikely; biological false positive possible. <sup>e</sup>	Clinical evaluation should be performed to identify current signs and symptoms or past history of infection. If recent exposure is suspected, redraw sample in 2-4 weeks and repeat algorithm..

a. This table is for testing and reporting of serum specimens only. b. If the result is nonreactive or weakly reactive, consideration should be given to the possibility of the prozone effect. c. Comments under “Further Action” can be included as language in the laboratory report or can be used as guidance for laboratorians to discuss test results with health care providers. d. Refer to package insert for specific reporting language, for certain methods a 1:1 titer may be reported as minimally reactive in certain circumstances. e. For a summary of factors associated with biological false positives review Topic 2, Recommendation 8 of APHL Consultation on Laboratory Diagnosis of Syphilis, Meeting Summary Report.<sup>9</sup>

# Advantages of a Reverse Syphilis Test Algorithm

Advantages of screening with a Treponemal IgM/IgG Immunoassay:

- Specific to Syphilis, nontreponemal assays are relatively nonspecific.
- More sensitive than nontreponemal assays for detecting primary and late latent syphilis.
- Available on automated instruments, less labor intensive.
- Potential for quicker turn-around-time.

# Upcoming Changes to STD Testing Services at the CT DPH Lab

- Purchase and Implementation of the Bio-Rad BioPlex 2200 System
- Assays we will be implementing on the new system include:
  - BioPlex 2200 Syphilis Total & RPR Assay
  - BioPlex 2200 HIV Ag-Ab Assay
  - BioPlex 2200 HSV-1 & HSV 2 IgG Assay

The BioPlex 2200 System is a fully-automated, random access, multiplex testing platform for the clinical diagnostic assays.



# BioPlex 2200 Syphilis Total & RPR Assay

- **Intended Use:** The BioPlex 2200 Syphilis Total & RPR Assay is a multiplex flow immunoassay utilizing sets of coated magnetic beads, intended for the qualitative detection of total (IgG/IgM) antibodies to *Treponema pallidum* and the qualitative detection and/or titer determination of non-treponemal reagin antibodies in human serum or plasma.
- It is a dual assay that simultaneously detects and differentiates antibodies to *T. pallidum* and reagin antibodies produced during syphilis infection.
- Automates RPR titers up to 1:2,048

# BioPlex 2200 Syphilis Total & RPR Assay

## Limitations and Considerations

- Validated sample types include serum and plasma.

*The CT DPH Lab will need to retain the Syphilis VDRL assay for testing of cerebrospinal fluid (CSF) samples.*

- The performance of the BioPlex 2200 Syphilis Total & RPR Assay has not been established on neonates or individuals younger than 7 years old.

*The CT DPH Lab will need to retain the Syphilis VDRL assay for testing infants.*

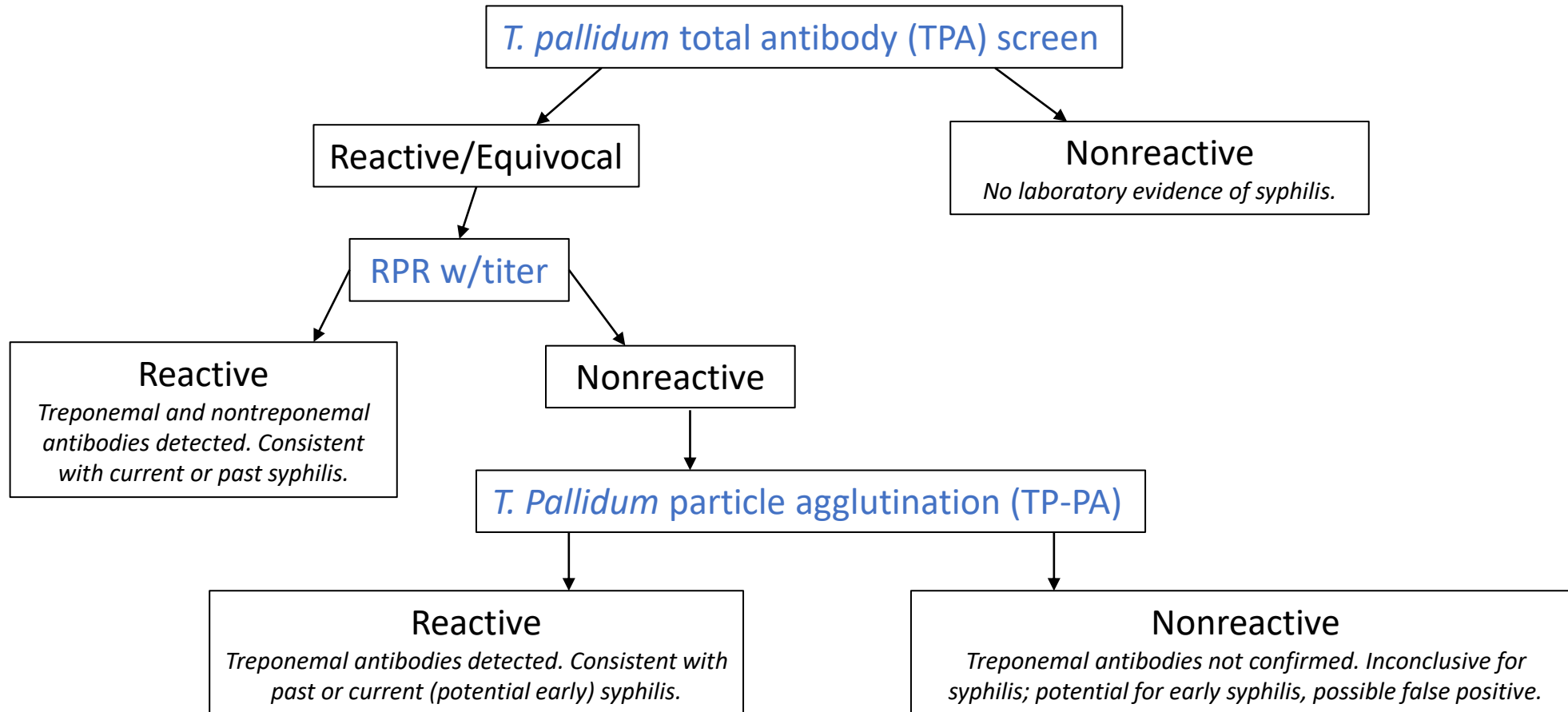
- It is not recommended to compare BioPlex RPR assay endpoint titers to those generated by manual methods since the manual tests are highly subjective. Higher discrepancy would be observed for cutoff/borderline/weak positive samples.

*When assessing the response to Syphilis treatment, it is recommended to use the same test methodology when comparing titers.*



# Anticipated Reverse Syphilis Test Algorithm at CT DPH Laboratory

Syphilis Ab w/reflex RPR, serum/plasma only



# Anticipated HIV and HSV Test Changes

- The **Bioplex 2200 HIV Ag-Ab assay** will replace the BioRad GS HIV Combo Ag/Ab EIA as the screening test used for the CDC Recommended HIV Testing Algorithm.

Reports out individual HIV analytes (HIV-1 Ab, HIV-2 Ab and HIV-1 p24 Ag). Supplemental testing will still be performed.
- The **Bioplex 2200 HSV-1 & HSV-2 IgG** assay will replace the current HSV IgG EIA.

Provides qualitative detection and differentiation of IgG antibodies to HSV-1 & HSV-2.

# Next Steps for BioPlex 2200 Testing

- Installation of the BioPlex 2200 - early November 2021
- Training of staff and validation of BioPlex 2200 assays
- SOPs-created and approved by management/QA
- LIMS- Acodes created and tested
- Test Requisition updated
- Directory of Clinical Testing Services – written for each assay and website updated.

Specimen storage requirements for BioPlex 2200 assays (Syphilis Total & RPR, HIV Ag-Ab, HSV-1 & HSV-2 IgG): serum stored at 2-8°C for up to 7 days.

\*Anticipated “go live” date for new testing in 3 to 4 months.\*

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