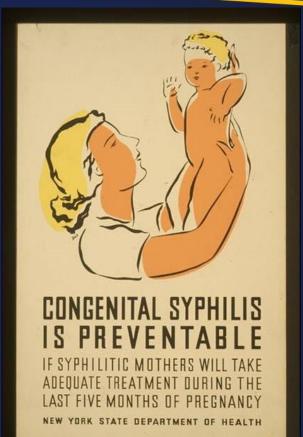


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Congenital Syphilis Symposium 2019 STD Program Staff

Welcome





- Introductions
- Ground Rules
 - Be Respectful

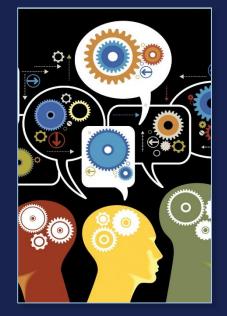


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Thank You!

Planning Committee

- <u>Karen Arrowood</u>, MPH DSHS Central Office, CDC DSTDP- MIS & STD Surveillance Specialist
- <u>Amy Carter, BS, CHES</u> Dallas County Health & Human Services- Front Line Supervisor
- <u>Crystal Casas</u>
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- <u>Sydney Minnerly</u>, MA DSHS Central Office- STD Prevention Manager
- <u>Amanda Reich</u>, MPH DSHS Central Office- Congenital Syphilis Coordinator
- <u>Kacey Russell</u>, MPH DSHS Central Office- STD Surveillance Epidemiologist
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Congenital Syphilis

Background

Surveillance Definition (NNDSS/CSTE)



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- Congenital Syphilis Clinical Evaluation and Treatment Scenarios
 - Epidemiological Profile



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2018 Congenital Syphilis Definition

As determined by the Council of State and Territorial Epidemiologists (CSTE) and adopted by the Centers for Disease Control and Prevention (CDC)

Karen Arrowood, MPH

Background and rationale

- The congenital syphilis case definition was last updated in 2015.
- Periodic changes are needed to the syphilis case definition(s) to ensure consistent accurate reporting of cases
 - Syphilis infections have continued to increase since their peak in 2000–2001.
 - Primary and secondary syphilis (the most infectious forms) had a rate of 2.1/100,000 (6,103 cases) in 2001
 - In 2018, this rate was 10.8/100,000 (35,063), the highest reported since 1994.

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- While cases continue to occur primarily among males with men having sex with men being the primary risk factor, cases among women have also increased.
- Along with these dramatic increases in adult syphilis, congenital syphilis cases have also been increasing since 2012 with 1,306 cases reported in 2018 (33.1/100,000 live births).

Criteria for case identification of congenital syphilis.



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Report to public health authorities any of the following laboratory test results:

- Demonstration of *Treponema pallidum* in clinical specimens by darkfield microscopy
- Demonstration of *T. pallidum* in late lesions by special stains
- Reactive polymerase chain reaction (PCR) or equivalent direct molecular tests
- Reactive nontreponemal serologic tests:
 - o Reactive Venereal Disease Research Laboratory [VDRL] serologic test
 - o Reactive rapid plasma reagin [RPR] serologic test
 - o Reactive results with equivalent serologic methods
- Reactive treponemal serologic tests:
 - o Reactive T. pallidum particle agglutination [TP-PA] serologic test
 - o Reactive treponemal enzyme immunoassay (EIA) serologic test
 - o Reactive treponemal chemiluminescence immunoassay (CIA) serologic test
 - o Reactive results with equivalent serologic methods
- Reactive Venereal Disease Research Laboratory [VDRL] in a specimen of cerebrospinal fluid

In addition, other laboratory test results associated with congenital syphilis:

- Demonstration of *T. pallidum* in lesions, body fluids, or neonatal nasal discharge by darkfield microscopy
- Demonstration of *T. pallidum* by polymerase chain reaction (PCR) or other equivalent direct molecular methods of lesions, neonatal nasal discharge, placenta, umbilical cord, or autopsy material
- Demonstration of *T. pallidum* by immunohistochemistry (IHC), or special stains (e.g., silver staining) of specimens from lesions, placenta, umbilical cord, or autopsy material

Criteria for case identification of congenital syphilis

Clinical findings associated with congenital syphilis:

- Evidence of congenital syphilis on physical examination
- Evidence of congenital syphilis on radiographs of long bones

Report to public health authorities any of the following epidemiologic risk factors:

Any case of congenital syphilis, an infant whose mother had <u>untreated</u> or <u>inadequately</u> treated syphilis at delivery, <u>regardless</u> of signs in the infant.

Report any death certificate that lists syphilis as a cause of death or a significant condition contributing to death.

Adequate treatment is defined as completion of a penicillin-based regimen, in accordance with CDC treatment guidelines, appropriate for stage of infection, initiated 30 or more days before delivery



Congenital Syphilis Case definition

Clinical description:

A condition caused by infection in utero with *Treponema pallidum*.

A wide spectrum of severity exists, from inapparent infection to severe cases that are clinically apparent at birth.

An infant or child (aged less than 2 years) may have signs such as hepatosplenomegaly, rash, condyloma lata, snuffles, jaundice (nonviral hepatitis), pseudoparalysis, anemia, or edema (nephrotic syndrome and/or malnutrition).

An older child may have stigmata (e.g., interstitial keratitis, nerve deafness, anterior bowing of shins, frontal bossing, mulberry molars, Hutchinson teeth, saddle nose, rhagades, or Clutton joints).



Congenital Syphilis Case definition

Laboratory criteria for diagnosis (Confirmed Case)

Demonstration of *Treponema pallidum* by:

• Darkfield microscopy of lesions, body fluids, or neonatal nasal discharge, or

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Texas Department of State Health Services Polymerase chain reaction (PCR) or other equivalent direct molecular methods of lesions, neonatal nasal discharge, placenta, umbilical cord, or autopsy material, or

• Immunohistochemistry (IHC), or special stains (e.g., silver staining) of specimens from lesions, placenta, umbilical cord, or autopsy material.

Congenital Syphilis Case Definition

Health and Human Services Texas Department of State Health Services **Probable Case:** a condition affecting an infant whose mother had untreated or inadequately treated* syphilis at delivery, regardless of signs in the infant, **OR** an infant or child who has a reactive non-treponemal test for syphilis (Venereal Disease Research Laboratory [VDRL], rapid plasma reagin [RPR], **OR** equivalent serologic methods) **AND** any one of the following:

- Any evidence of congenital syphilis on physical examination (see Clinical description)
- Any evidence of congenital syphilis on radiographs of long bones
- A reactive cerebrospinal fluid (CSF) venereal disease research laboratory test (VDRL) test

• In a non-traumatic lumbar puncture, an elevated CSF leukocyte (white blood cell, WBC) count or protein (without other cause):

- o Suggested parameters for abnormal CSF WBC and protein values:
 - During the first 30 days of life, a CSF WBC count of >15 WBC/mm3 or a CSF protein >120 mg/dl is abnormal.
 - After the first 30 days of life, a CSF WBC count of >5 WBC/mm3 or a CSF protein >40 mg/dl, regardless of CSF serology.

The treating clinician should be consulted to interpret the CSF values for the specific patient.

Adequate treatment is defined as completion of a penicillin-based regimen, in accordance with CDC treatment guidelines, appropriate for stage of infection, initiated 30 or more days before delivery

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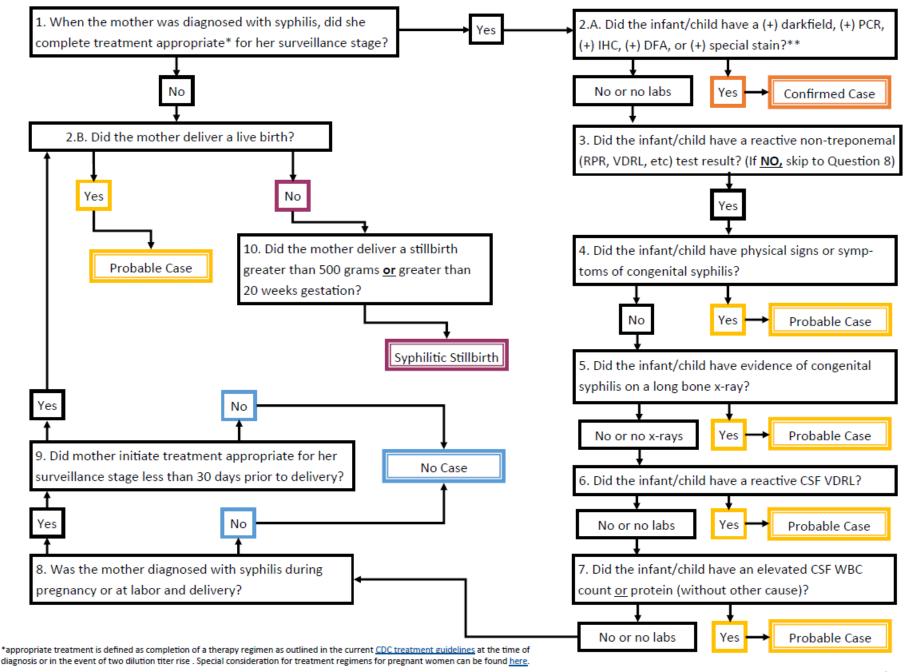
Congenital Syphilis Case Definition

Syphilitic Stillbirth

A fetal death that occurs after a 20week gestation or in which the fetus weighs greater than 500 g and the mother had untreated or inadequately treated* syphilis at delivery.

Adequate treatment is defined as completion of a penicillin-based regimen, in accordance with CDC treatment guidelines, appropriate for stage of infection, initiated 30 or more days before delivery

Congenital Syphilis Case Classification Flow Chart



Congenital versus Acquired Syphilis



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Congenital and acquired syphilis may be difficult to distinguish when a child is seropositive after infancy.

Signs of congenital syphilis may not be obvious, and stigmata may not yet have developed.

Abnormal values for CSF VDRL, WBC count, and protein may be found in either congenital or acquired syphilis. Findings on radiographs of long bones may help because radiographic changes in the metaphysis and epiphysis are considered classic signs of congenitally acquired syphilis.

While maternal antibodies can complicate interpretation of serologic tests in an infant, reactive tests past 18 months of age are considered to reflect the status of the child. The decision may ultimately be based on maternal history and clinical judgment. In a young child, the possibility of sexual abuse should be considered as a cause of acquired rather than congenital syphilis, depending on the clinical picture.

For reporting purposes, congenital syphilis includes cases of congenitally acquired syphilis among infants and children as well as syphilitic stillbirths.



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Definition Changes from 2014 to 2015

2014

Case Classification: Confirmed

 Demonstration of *T. pallidum* by darkfield microscopy, fluorescent antibody, or other specific stains in specimens from lesions, placenta, umbilical cord, or autopsy material. 2015

Case Classification: Confirmed

Additional Lab Criteria: Demonstration of *Treponema pallidum* by:

• Darkfield microscopy of lesions, body fluids, or neonatal nasal discharge, or

• Polymerase chain reaction (PCR) or other equivalent direct molecular methods of lesions, neonatal nasal discharge, placenta, umbilical cord, or autopsy material, or

• Immunohistochemistry (IHC) or special stains (e.g., silver staining) of specimens from lesions, placenta, umbilical cord, or autopsy material.



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Definition Changes from 2014 to 2015

2014

Case Classification: *Probable*

A condition affecting an infant whose mother had untreated or inadequately treated* syphilis at delivery, regardless of signs in the infant, or an infant or child who has a reactive treponemal test for syphilis and any one of the following:

- Any evidence of congenital syphilis on physical examination
- Any evidence of congenital syphilis on radiographs of long bones
- A reactive cerebrospinal fluid (CSF) venereal disease research laboratory (VDRL)
- An elevated CSF cell count or protein (without other cause)
- A reactive fluorescent treponemal antibody absorbed--19S-IgM antibody test or IgM enzyme-linked immunosorbent assay

*Inadequate treatment consists of any non-penicillin therapy or penicillin given less than 30 days before delivery.

2015

Case Classification: Probable

A condition affecting an infant whose mother had untreated or inadequately treated* syphilis at delivery, regardless of signs in the infant, or an infant or child who has a reactive non-treponemal test for syphilis (Venereal Disease Research Laboratory [VDRL], rapid plasma reagin [RPR], or equivalent serologic methods) AND any one of the following:

- Any evidence of congenital syphilis on physical examination (see Clinical description)
- Any evidence of congenital syphilis on radiographs of long bones
- A reactive cerebrospinal fluid (CSF) venereal disease research laboratory test (VDRL) test
- In a non-traumatic lumbar puncture, an elevated CSF leukocyte (white blood cell, WBC) count or protein (without other cause):
 - Suggested parameters for abnormal CSF WBC and protein values:

1. During the first 30 days of life, a CSF WBC count of >15 WBC/mm3 or a CSF protein >120 mg/dl is abnormal.

2. After the first 30 days of life, a CSF WBC count of >5 WBC/mm3 or a CSF protein >40 mg/dl, regardless of CSF serology.

The treating clinician should be consulted to interpret the CSF values for the specific patient.

*Adequate treatment is defined as completion of a penicillin-based regimen, in accordance with CDC treatment guidelines, appropriate for stage of infection, initiated 30 or more days before delivery.

Case Definition Modifications Recap

There were four changes to the Congenital Syphilis case definition in 2015:

- 1. Infant requirement of non-treponemal test instead of a treponemal test
- 2. Eliminated the FTA-19s-IgM test from the definition, as it was rarely performed
- 3. Included reference ranges for CSF White Blood Cell (WBC) counts
- 4. Clarified the definition of adequate maternal treatment, to be more inclusive of women who did not complete treatment for the surveillance stage of syphilis.

Texas received supplemental funding for enhanced congenital syphilis surveillance in 2017.

With that funding, Texas DSHS Central Office hired two additional positions to work with sites to improve reporting, complete vital statistics matching, conduct case reviews, and provide real-time quality assurance.

No changes were made to the case definition in 2018.



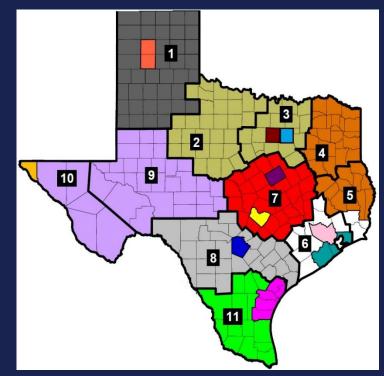
Out of Jurisdiction Guidance: Reporting



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The jurisdiction where the infant is born <u>regardless</u> of mother's address is the jurisdiction responsible for completing the Congenital Syphilis Investigation.

- Example A: Mother's address is in Katy (Region 6/5S); she delivers in Houston. City of Houston Health Department is responsible for completing the Congenital Syphilis Investigation
- Example B: Mother's address is in Seguin (Region 8); she delivers in San Antonio. San Antonio Metro Health District is responsible for completing the Congenital Syphilis Investigation
- Example C: Mother's address is in Texarkana, AR; she delivers in Texarkana, TX. Region 4/5N is responsible for completing the Congenital Syphilis Investigation



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Out of Jurisdiction Guidance: Collaborations

In the event that the infant is transferred to a hospital in another jurisdiction *after* delivery, the jurisdictions should collaborate to complete the Congenital Syphilis investigation.

Example: Infant is born at Parkland Hospital in Dallas, but transferred to Cooks Children's Hospital in Fort Worth. Both Dallas County Health & Human Services and Tarrant County Public Health Department review the infant's medical record at the hospital in their jurisdiction and ensure all information gathered from the chart reviews is entered into the Congenital Syphilis question package

Out of Jurisdiction Guidance: Morbidity

The jurisdiction where mother resides <u>regardless</u> where she delivered is the jurisdiction where morbidity is assigned.

- Example A: Mother's address is Arlington; she delivers at Parkland Hospital in Dallas. Dallas County Health & Human Services will complete the Congenital Syphilis Investigation; the morbidity will be assigned to Tarrant County.
- Example B: Mother's address is Georgetown; she delivers in Austin. Austin Public Health is responsible for completing the Congenital Syphilis Investigation; the morbidity will be assigned to Williamson County (Region 7).

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• Example C: Mother's address is Ciudad Juarez, MX; she delivers in El Paso. City of El Paso Department of Health will complete the Congenital Syphilis Investigation; the morbidity will be assigned to Mexico.



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Questions?

Thank you! Karen Arrowood, MPH CDC/NCHHSTP/DSTD/FSB: Public Health Advisor DSHS: MIS and Surveillance Specialist

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Congenital Syphilis Clinical Scenarios

Pam Mathie, MSN, RN STD Nurse Consultant

Treponema pallidum bacterium

Causative Agent of Syphilis



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Congenital Syphilis (CS)

Evaluation & treatment of infants < 30 days old born to women with reactive syphilis serology during pregnancy

- All infants and mothers should have a serum RPR or VDRL titer drawn at delivery.
 - Texas Health & Safety Code SB 81.090-Testing for women at delivery
- Treponemal tests should not be performed on the newborn. Maternal antibodies are transferred to the infant via the placenta, and there is no test available to differentiate between maternal and infant antibodies.
- Pathologic examination of the placenta or umbilical cord (Immunohistochemistry (IHC)/special stains, T. pallidum PCR, or CLIA-validated test) should be strongly considered and performed if available.

Infant Criteria

- Infant
 - CS findings on physical exam,

OR

 Infant serum quantitative non-treponemal titer four-fold (two dilutions) or higher than mother's titer,*

OR

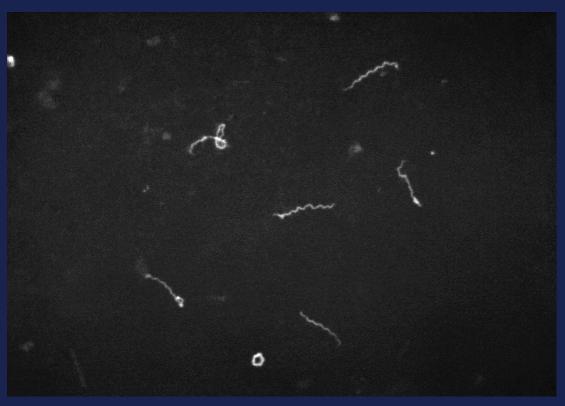
 + darkfield or PCR/IHC/special stains of placenta/umbilical cord/lesions/body fluid

Yes to Any Above → Proven or Highly Probable CS

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Darkfield



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Infant Signs/Symptoms

- Snuffles (copious nasal secretions)
- Rashes, mucocutaneous lesions
- Hepatosplenomegaly (liver/spleen enlargement), jaundice (yellow skin)
- Lymphadenopathy (swollen glands)
- Abnormal neurological signs, pseudoparalysis

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Snuffles



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Rashes on face and feet







Palmar rash



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Cutaneous lesion



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Eroded early syphilids



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Umbilical lesion



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Oral mucous patches & facial rash



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Infant Evaluation Recommended:

- CSF (cerebrospinal fluid) analysis (VDRL, cell count, protein)
- CBC (complete blood count with differential and platelet count)
- Other tests as clinically indicated

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Other Tests

- Long-bone radiographs (Wimberger sign)
- CXR (chest x-ray)-pneumonia
- CBCs and more specific blood work-Thrombocytopenia (low platelets), hemolytic anemia (red blood cells lysing)
 - Liver function tests
 - Neuroimaging, ophthalmologic examination, and auditory brain stem response (ABR)

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Clinical Scenario #1 Proven or Highly Probable CS

Infant Treatment-10 day Regimen

 Aqueous crystalline penicillin G 50,000 units/kg/dose IV every 12 hours for first 7 days of life, then every 8 hours for a total of 10 days.

OR

Procaine penicillin G 50,000 units/kg/dose
 IM in a single daily dose for 10 days.

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Clinical Scenario #2 Possible CS

Infant & Mother Criteria

- Infant
 - Normal physical exam

AND

• Serum quantitative nontreponemal serological titer <u>equal</u> <u>to or less than four-fold</u> (two dilutions) the maternal titer

• Mother

- Not treated, inadequately treated, or treatment undocumented, OR
- Treated with a non-benzathine penicillin G regimen during pregnancy, OR
- Received treatment less than 4 weeks before delivery

Yes to Above -> Possible CS



Clinical Scenario #2 Possible CS

Infant Evaluation Recommended*:

- CSF (cerebrospinal fluid) analysis (VDRL, cell count, protein)
- CBC (complete blood count with differential and platelet count)
- Long-bone radiographs
- Infant has no CS findings on exam to warrant additional tests.

* CDC STD Treatment Guidelines, 2015, state, "A complete evaluation is not necessary if 10 days of parenteral therapy is administered, although such evaluations may be useful."

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Clinical Scenario #2 Possible CS

Infant Treatment-Clinical Decision

• Aqueous crystalline penicillin G IV (or alternate IM regimen) for 10 days

Required if any part of infant evaluation is abnormal or not performed, if the CSF is uninterpretable because of contamination with blood, OR follow-up <u>uncertain</u>

OR

• Benzathine penicillin G 50,000 units/kg/dose IM x 1

Only if the complete evaluation is normal AND follow-up is <u>certain</u>



Clinical Example

- Mother diagnosed with syphilis during pregnancy without documentation of adequate treatment
- Infant's physical exam is normal and titers are less than four-fold (two-dilutions) mother's.
- CSF: VDRL-NR, WBC 25, protein 400 "bloody tap"
- CBC: WBC 25, RBC 5, H/H 16/48, platelets 125
- Long-bone radiographs: metaphyseal lucent bands



Clinical Scenario #3 Less Likely CS

Infant & Mother Criteria

- Infant
 - Normal physical exam

AND

• Serum quantitative nontreponemal serological titer <u>equal</u> <u>to or less than four-fold</u> (two dilutions) the maternal titer



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Mother

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 Adequately treated with benzathine penicillin G appropriate for stage, greater than 4 weeks before delivery

AND

No concern for reinfection or treatment failure

Yes to Above-> Less Likely CS

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Clinical Scenario #3 Less Likely CS

Infant Evaluation

No additional infant evaluation



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Clinical Scenario #3 Less Likely CS

Infant Treatment-Clinical Decision

 Recommended Treatment-Benzathine penicillin G 50,000 units/kg/dose IM x1

OR

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- Alternative Approach-No treatment with close serologic follow-up every 2-3 months
 - Only for infants whose mother's titers decreased four-fold after appropriate therapy for early syphilis or remained stable for low-titer latent syphilis (e.g., VDRL <1:2 ; RPR <1:4).

FOLLOW UP MUST BE CERTAIN!

Clinical Scenario #4 CS Unlikely

Infant & Mother Criteria

• Infant

• Normal physical exam

AND

 Serum quantitative nontreponemal serological titer <u>less than or equal to four-fold</u> (two dilutions) the maternal titer

• Mother

Treatment adequate <u>before</u> pregnancy

AND

Nontreponemal serological titer remained low and stable (i.e. serofast) before and during pregnancy and at delivery (VDRL <1:2; RPR,1:4)



Clinical Scenario #4 CS Unlikely

Infant Evaluation

No additional infant evaluation



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Clinical Scenario #4 CS Unlikely

Infant Treatment-Clinical Decision

No treatment is required, but might be considered if follow up <u>uncertain</u> and the neonate has reactive nontreponemal test.





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Clinical Example

- Mother's RPR at first prenatal (12 weeks) 1:2; at 28 weeks 1:4; at delivery (40 weeks) 1:4
- Per OB chart mother "treated for syphilis in 2015 in New Mexico." "Serofast" documented at delivery.
- No documentation of treatment in medical record or surveillance databases.
- At delivery: Infant RPR 1:2
- Infant normal exam-"healthy newborn"

CS Follow-up

Every 2-3 Months

- Infants in ALL clinical scenarios require close follow up and serologic testing, i.e. RPR, every 2-3 months (whether treatment given or not) until test becomes nonreactive
- Nontreponemal titer should <u>decline by 3</u> <u>months and be non-reactive by 6 months if</u> treated adequately or uninfected (may take longer if treated after neonatal period).
- Neonates with a negative nontreponemal test at birth whose mothers were seroreactive at delivery should be retested at 3 months to rule out seronegative incubating CS.

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CS Follow-up

At 6-12 Months

- For infants not treated at birth because CS was considered less likely or unlikely, nontreponemal titers should decline by age 3 months and be non-reactive at 6 months. If still reactive at 6 months, the infant is likely infected and should be treated.
- For infants treated at birth, persistent nontreponemal test titers at 6-12 months should be re-evaluated with CSF examination and managed by an expert.

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• Adequate treatment can prevent late CS manifestations in childhood and into adulthood.

Late CS Manifestations (>age 2)

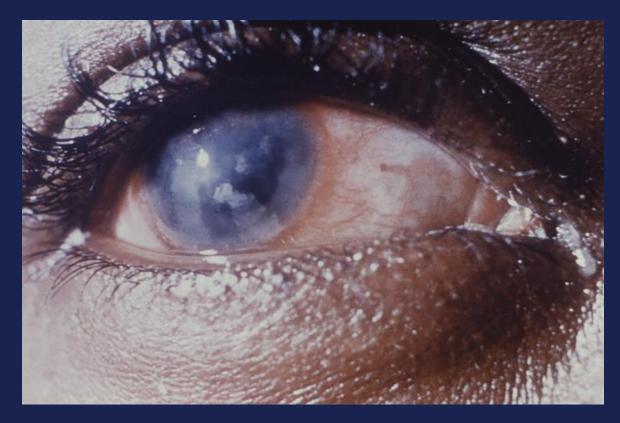
Early childhood into adulthood

- Hearing loss (puberty adulthood) Can develop suddenly
- Interstitial keratitis (5 years old adulthood) – Inflammation of tissue of cornea, can lead to vision loss
- Bone or tooth abnormalities (Hutchinson's teeth, saber shins)
- Neurologic abnormalities
- Gummas (granulomatous inflammatory response to spirochetes) in the skin or mucous membranes

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Interstitial corneal keratitis







Syphilitic bone disease







Saber shins







Hutchinson's teeth







Frontal bossing







CS Manifestations

Frontal bossing, mulberry molars, Hutchinson teeth, saddle nose, and cataract in right eye



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Infant CS Follow up

Discussion

 Case of "Less Likely CS" with no treatment and plan for follow up in 2 months for serology, but missed appointment.

Mother moved to Dallas from San Antonio late in pregnancy. Physician who delivered infant in hospital documented mother "treated for latent syphilis during PNC." PNC record obtained by DIS documents BIC x1 administered. 755 with BIC x 1 in THISIS.

- What follow up care does the infant need?
- What are the next steps?

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CS Evaluation/Treatment/Follow up

Roles & Communication

- DIS
- Local Health Authority
- Hospitals
- Medical Providers
- Parents

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Infant CS Follow up

Program Expectations

- DIS
- FLS
- Local Health Authority



Provider Outreach

Strategies



- Challenges
- Barriers
- Successes
- Solutions

NYC Dept of Health & STD PTC Syphilis Monograph

https://www.dshs.texas.gov/hivstd/healthcare/treatment.shtm



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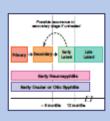
The Diagnosis, Management and Prevention of Syphilis

An Update and Review

Produced by

the New York City Department of Health and Mental Hygiene Bureau of Sexually Transmitted Infections

and the New York City STD Prevention Training Center













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Thank you!

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Discussion Points

CSTE Definition and Clinical Scenarios



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Similarities

CSTE Definition and Clinical Scenarios

- Infant with a confirmatory lab: Confirmed Case Clinical Scenario #1 (Proven or Highly Probable)
- Infant with physical manifestations: Probable Case Clinical Scenario #1 (Proven or Highly Probable)
- Infant with abnormalities on long bone x-rays or CSF labs: Probable Case

Clinical Scenario #2 (Possible CS)

Mother with inadequately treated syphilis: Probable Case

Clinical Scenario #2 (Possible CS)

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 Mother with adequately treated syphilis: Not a Case Clinical Scenario #3 (Less Likely CS) Clinical Scenario #4 (CS Unlikely)

Differences: CSTE & Clinical Scenarios



- Maternal titer and infant titer comparisons are <u>not</u> considered when making CSTE case classifications
 - Maternal and infant titer comparisons are <u>crucial</u> for Clinical Scenario Evaluations
- Infants must have a reactive nontreponemal test (RPR, VDRL) and an abnormality attributed to CS to be a probable case
 - A reactive infant RPR is <u>not</u> necessary for any Clinical Scenarios Evaluations or Treatment





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Data Profile

Kacey Russell, MPH Epidemiologist, STD Prevention

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Break

15 Minutes

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Syphilis Follow-up

Pregnancy & Women of Childbearing Age



Pregnancy Ascertainment

- Pregnancy intendedness
- Appropriate referrals
 - Prenatal Care

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- Contraception or Pregnancy Prevention Options
- Syphilis reactors (& contacts) of Childbearing Age

 How to use the Congenital Syphilis Investigation Pending workflow

Lab reporting pregnancy status

 Follow-up on women with historical inadequate treatment

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Women with Syphilis

DSHS considers persons between 14-45 who have the ability to become pregnant to be of childbearing age.

Purpose:

- To ascertain pregnancy status
 - What medication is appropriate
 - Prevent congenital syphilis
 - Make appropriate referrals

Goals:

- Obtain LMP
- Ascertain number of children
 - Possible congenital syphilis exposures
- Current birth control method
- Date of last sexual contact



Questions to Ask

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- How many children do you have?
 - Obtain age(s) of child(-ren)
 - Father(s) of child(-ren)
 Potential P1/S2
- When was your last pregnancy?
 - Helps to obtain if the client was pregnant in the last year
 - Possible CS exposure, syphilitic stillbirth, or miscarriage
 - Can lead to obtaining a non-reactive test

Pregnancy Ascertainment

- When was your last normal menstrual period (LMP)?
 - LMP varies and clients may report variable timeframes
- What medications are you taking?
 - Helps ascertain contraception, incidental antibiotics, PrEP status, etc

One Key Question

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One Key Question

Break it down into three questions

- Would you like to have any (more) children?
 - What are your plans regarding future pregnancies?
- Would you like to become pregnant in the next year?
 - When would you like to become pregnant again?
- How important is to you to prevent pregnancy until then?
 - What referrals do you need?



DSHS Expectations





- 90% of all syphilis reactors that are persons who can become pregnant (sex at birth = female) and are childbearing age, have a known pregnancy status
- 80% of all syphilis contacts (partners, clusters, associates) are to have a documented pregnancy status when appropriate

THISIS: Pregnancy Status

Event Summary

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Basic Information	tion								Note
Event ID:		1000001							
Disease:		700 - Sy							
Person:		Jasmine	Tigress Birth	Date: 05/12/1	990				
Investigation S	tatus:	Open							
Linked Events/	Contacts:	0 linked	event(s)/conta	act(s) (View)					
Attachments:		0 attach	ment(s) (Add)						
Notifications:			Notifications	s (1)					
			w Status (1) is in workflow	s [View List]					
Party Information (1) Party Information									
Edit Event Pro	operties	Copy E	Event						
Event Dat	a Lab	Results	Concerns	Persons	Tasks	Eve	nt Properties	Event History	
Labs					_				
Lab No.	Collecti	on Date		Test		F	Result	Modifier	Result
>1	08/21/2	019		SYPH - RPR		F	Positive		1:32
1	08/21/2	019		SYPH - TP-P	A	F	Positive		

Congenital Syphilis Symposium STD Program Staff 2019

Pregnancy and Syphilis



- When offering a pregnancy test to a woman who has tested positive for syphilis or is a contact for syphilis stress the increasing rates of congenital syphilis nationwide, especially in Texas.
- Use your congenital syphilis disease card as a motivator for pregnancy screening
- Explain complications of pregnancy due to syphilis and clinical manifestations of congenital syphilis
- Inform pregnant women who have tested positive for syphilis or are found to be pregnant that they need to inform their medical provider
- Follow-up with the provider to ensure correct treatment regimens are given
 - No doxycycline (harmful for the baby)
 - Bicillin x 3 for all late latent cases given approximately one week apart (CDC guidelines)



Creating the Field Record

			Initial Status
	Initial jurisdiction	PHFU Corpus Ch	nristi
	* Initial date	08/25/2019	
	^t Initial assignment outcome	Field Follow-up	T
	* Priority	•	
	Completed by	Amanda Reich	
	Date of outcome	10/04/2019	
Physical Attributes			Number of weeks pregnant (must be a number between 1-
patient is found)	QP if Yes ▼		Number of weeks pregnant (must be a number between 1- 44 or 999 to indicate unknown)
	⁺ Assignment type ⊡		Field Record / Interview Add New
	Assignment type lock		Yes v
S. C.	* Created by		Amanda Reich
	Create date - syphilis		10/04/2019
TEXAS	* Is this a field record or inte	erview only?	Field Record ▼
Health and Human Services	* Field Record ID		1000003
	Assignment		
Texas Department of State	* Jurisdiction assigned to		PHFU Corpus Christi 🔻
Health Services	* Person assigned to		S 🛍
	* Assignment reason		New STD and Pregnancy
	Field Record		
	* Referral basis (Syphilis)		T1 - Positive lab test ▼
	* Diete initieteel (Ormisilie	1	

Pregnancy Ascertainment

	Pregnancy Information
* Was the patient pregnant at the time of this	Yes 🔻
Number of weeks pregnant at the time of this event?	
Currently in prenatal care?	T
Congenital investigation status	Pending v
Additional pregnancy in the last 12 months?	
New pregnancy after syphilis diagnosis	▼
* Indicates required field	



	Pregnancy Information
* Was the patient pregnant at the time of this event?	Yes V
Number of weeks pregnant at the time of the second s	20
Approximate due date	01/08/2020
Currently in prenatal care?	T
Congenital investigation status	Pending
Additional pregnancy in the last 12 months?	T
New pregnancy after syphilis diagnosis	T
* Indicates required field	

Referrals



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Discussion!

 What are some referral options for prenatal care in your jurisdiction?

 What are some referral options for clients if they express interest in not becoming pregnant in your jurisdiction?

Documentation

	Freghancy mornation
* Was the patient pregnant at the time of this event?	Yes 🔻
Number of weeks pregnant at the time of this event?	20
Approximate due date	01/08/2020
Currently in prenatal care?	Yes V
Congenital investigation status	Pending
Additional pregnancy in the last 12 months?	No 🔻
New pregnancy after syphilis diagnosis	
* In all a fear we will deal d	

* Indicates required field



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Add prenatal care status

- Document prior pregnancy
 - This will alert need for follow-up on possible CS exposures
- Leave "New pregnancy after syphilis diagnosis" blank



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Congenital Syphilis Investigation Pending Workflow

Event Summary

Basic Information	
Event ID:	10000182
Disease:	700 - Syphilis
Person:	Jasmine Tigress Birth Date: 05/12/1990
Investigation Status:	Open
Linked Events/Contacts:	0 linked event(s)/contact(s) (View)
Attachments:	0 attachment(s) (Add)
Notifications:	Concerns (1) Reporting: Facility type must be entered
	General Notifications (1) Diagnosis Code: 755 - Syphilis, unknown duration or late
	Workflow Status (1) Events [View List]
	Party Information (1) Party Information
Edit Event Properties	Copy Event



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Congenital Syphilis Investigation Pending Workflow

100000182 - Jasmine Tigress - 700 - Syphilis

This event is currently in the following workflow queues:

Workflow Status				
Workflow Queue	Category	Description	Last Update	Question Packages
CS Investigation Pending - Corpus Christi	STD FLS Activities	The patient has an identified pending congenital syphilis investigation	10/04/2019 14:42	Clinical
Cases with Open Concerns - STD	Case Specific Monitors	Cases with Open Concerns	10/04/2019 14:42	N/A
Open Assignments No User - Corpus Christi	STD FLS Activities	Open FRs, IXs, ReIXs, and CS Investigations with no user assigned. FLS need to review these open assignments and assign them to a worker.	10/04/2019 14:42	Case Assignment / Field Record
Open Assignments No User - Logic	STD FLS Activities	Open FRs, IXs, ReIXs, and CS Investigations with no user assigned. FLS need to review these open assignments and assign them to a worker.	10/04/2019 14:42	Case Assignment / Field Record
Open Field Records - Logic	STD DIS Activities	All Open Field Records (i.e. no disposition)	10/04/2019 14:42	Case Assignment / Field Record

Workflow Details - CS Investigation Pending - Corpus Christi

CS Investigation Pending - Corpu	s Christi (Last Update: 10/04/20	19 14:42)		
Event	Name	Create Date	APPROX_DUE	Diagnosis code
100000182- Clinical	Jasmine Tigress	10/04/2019	01/08/2020	755 - Syphilis, unknown duration or late



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Removing an Event from the CSI Workflow

	Pregnancy Information
* Was the patient pregnant at the time of this event?	Yes 🔻
Number of weeks pregnant at the time of this event?	20
Approximate due date	01/08/2020
Currently in prenatal care?	Yes V
Congenital investigation status	Completed v
Additional pregnancy in the last 12 months?	No 🔻
New pregnancy after syphilis diagnosis	V
* Indicates required field	

Once the investigation is completed, the event leaves the workflow

CS Investigation Pending - Corpus Christi

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When not to Complete a Congenital Investigation

Mother has delivered out of state

- Mother miscarried prior to 20 weeks' gestational age or < 500 grams
- Mother did not meet case criteria
- Mother was Biological False Positive

	Pregnancy Information
* Was the patient pregnant at the time of this event?	Yes 🔻
Number of weeks pregnant at the time of this event?	20
Approximate due date	01/08/2020
Currently in prenatal care?	Yes v
Congenital investigation status	Not Completed ▼
CO Approval	Yes
Justification	Mother delivered out of state- Agrabah
Additional pregnancy in the last 12 months?	No 🔻
New pregnancy after syphilis diagnosis	T

* Indicates required field

F4 Field Record: Treatment Restart

Follow-up on historical inadequate treatment

Purpose

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- Reduce the number of women who deliver infants classified as congenital syphilis cases due to historical inadequate treatment
 - Example: Snow White is diagnosed with late latent syphilis in 2017, but only came in for one dose of Bicillin. New labs have recently imported from Charming Kingdom OBGYN/Prenatal Care.
 - What happens next?
 - How come?

Initiate a F4 Field Record

- Provider report of pregnancy, DIS report of pregnancy, lab report of pregnancy
 - Includes positive labs from delivery



Lab Reporting of Pregnancy Status

Patient Information	
First Name:	Jasmine
Last Name:	Agrabah
Date of Birth:	05/12/1990
Sex:	Female
Race:	Asian
Ethnicity:	Not Hispanic or Latino
Specimen Info	
Collection Date:	08/21/2019
Accession Number:	55555
Specimen Type:	Blood
Resulted Test	
Test:	SYPH - RPR
Result:	Positive
Rapid:	No
Result Value:	1:32
Resulted Test	
Test:	SYPH - TP-PA
Result:	Positive
Additional Clinical Information	
Additional Clinic	Encounter for Pregnancy; Initiation of Prenatal Ca
Comments	
Comments:	Prenatal Lab; Possible STD Exposure; Initiation of Prenatal Care; Medicaid Initiation; Encounter for Pregnancy



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F4 Field Record

Follow-up:

- High Priority
- Two field visits
 am/pm
- Minimum two phone calls
 - o am/pm
- Minimum two text messages
 - o am/pm

Recommendation Start with the reporting provider and discuss need for treatment

Dispostions

- `N' located the client and successfully initiated re-treatment
 - Remember to document new treatment
- `H' Unable to locate
 Add notes to the event
- `J' Refusal
 - $\circ~$ Use for both "hard" and "soft" refusals
 - Hard Refusal- a client explicitly refuses treatment
 - "Soft Refusal"- a client agrees to treatment, but repeatedly no shows appointments or is otherwise unable to be treated after all attempts by PHFU have been exhausted



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F4 Field Record: Treatment Restart

Record Searching:

- Documentation of inadequate treatment for syphilis case classification
 - Review case classification for need for additional treatment

<u>Review historical titers:</u>

 Any sustained twodilution titer rises with the absence of treatment

<u>Recommended</u> <u>Initiation</u> <u>(Capacity</u> <u>Permitting)</u>

- Same initial criteria for all women of childbearing age, regardless of pregnancy status when new labs import
- Especially women who present to STD clinic and re-initiate treatment, but fail to show up for second appointment

Treatment Documentation

	Treatment
* Patient received treatment	Yes 🔻
* Specify medication name ⊡	Benzathine Peni
* Dose	2.4 mu 🔻
* Frequency	x1 Only 🔻
* Date treated	09/01/2019



		Signs and Symptoms
* Is / was patient symptomatic? No	V	
		Treatment
* Patient received treatment	Yes 🔻	
* Medication start date: 09/01/2019 Dosage: 2.4 mu Duration: x1 ⊞	Benzathine Penicillin G (Bicillin) ▼	
Medication start date: 09/08/2019 Dosage: 2.4 mu Duration: x1 ⊞	Benzathine Penicillin G (Bicillin) •	
Medication start date: 09/18/2019 Dosage: 2.4 mu Duration: x1 ⊞	Benzathine Penicillin G (Bicillin) ▼ Add New	



Provider Education

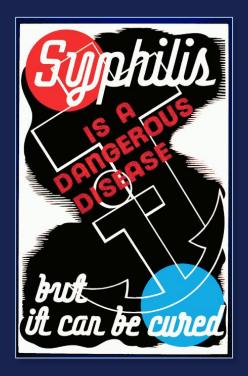
DSHS Public Health Region 11

Basic Information



- CDC Guidelines
- New algorithm
- Statistics
- Knowing your providers
- Hospital Infection Control







Syphilis 101

Review basic syphilis guidelines

- Meet with provider staff, usually:
 - Manager,
 - Medical assistant,
 - \circ RN,
 - o LVN,
 - \circ lab staff, and
 - support staff.

So, next time you call the provider knows who is talking to them; try to get a contact person at each office.

Always reference the Texas and CDC guidelines

You are our EYES



- We encourage and thank them for being the front line staff for direct patient care
- Remind them to always look for signs and symptoms
- If the patient does NOT disclose symptoms & you see them, please ASK!!! BE aware
- Show them pictures of: rash, chancre, palmar planter etc.



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CDC guidelines

- Provided them with CDC most current link: <u>https://www.cdc.gov/std/tg2015/</u> Advise them of app you can download or obtain online
- Provide pregnancy guidelines for RPR testing, and treatment (Adequate treatment for diagnosis)



New Algorithm

- Provide copy of the new algorithm
- The importance of ordering the correct test and reason why its important.
- RPR vs. VDRL, TPPA vs FTA-ABS, and IGG with reflex and confirmation.





Statistics

- Always useful and they are very interested:
- 1. National Syphilis Rates
- 2. Texas Rates
- 3. Regional / Local Rates



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Knowing your providers

Enables for interaction between regional/local staff and provider staff

- We encourage provider staff to contact the office for record searches or if a patient has signs/symptoms.
- We have THISIS
 - All providers DO NOT have complete history or treatment.



Medication

- Provide medication on monthly basis
 - Azithromycin
 - Rocephin
 - Doxycycline
- Expediated Partner treatment
 - Provide meds
- Provide treatment for Syphilis reactors

Hospital Infection Control

 It is imperative to make contact with your local (APIC members) Association for Professional Infection Control & Epi Nurses



- It is usually comprised of all local hospital infection control staff, nursing homes, & rehabilitation centers.
- They have monthly meeting at which you can do provider education, updates and changes all at once.

Hospital Infection Control



- They can help with medical records abstractions
- They can help with obtaining web portal access
- They can help with interactions with laboratory staff
- They can get all H & P for not only RPR but HIV.





Communication

- It is very important to have open communication with all the providers and hospital infection control staff.
- It can take a long time to gain their trust, so don't give up!





Thank you

zulema.garcia@dshs.texas.gov

Dept of State Health Services Region 11 601 W. Sesame Drive Harlingen, Texas 78550 956-444-3242

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Lunch

Please be back in <u>1 hour 30 min</u>

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Medical Chart Abstractions

Completing a Congenital Syphilis Investigation

Beginning the Investigation



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How to Start?

- Laboratory Report
 - o Maternal
 - o Infant

Field Record

- T1- Reactor
- F1- Congenital Follow-up
- Congenital Syphilis Investigation Assignment



Next Steps:

- Contact the Hospital
- Obtain the Medical Chart
- Complete the Abstraction
- Complete the Congenital Syphilis Question Package (THISIS) & STD-126

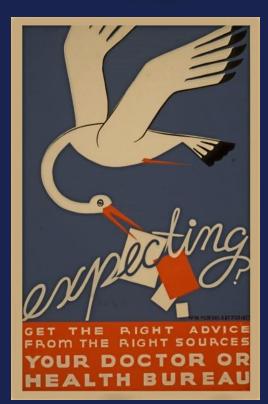


Field Records

Texas Department of State Health Services

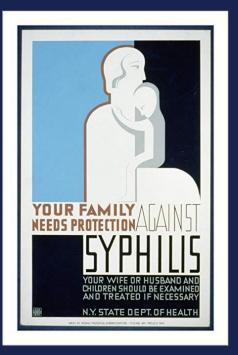
A Field record should be initiated for all children, regardless of whether or not they already have a CS report in the system.

- Reactor (T1) Field Records are to be initiated on <u>all</u> reactive syphilis labs on children 10 years of age and younger.
- Congenital Follow-up (F1) Field Records are to be initiated on all infants with negative labs, infants without labs born to woman with syphilis history, and any presumptive infants that a jurisdiction may have knowledge of, but have yet to receive report of
- "Congenital Investigation" Assignments are to be created for the infant at the same time a field record is initiated.





Next Steps



- Contact the facility of birth
 - Speak with Infection Preventionist
 - Possibly speak with the floor nurse
- Obtain and/or confirm infant & mother's
 - Lab Result(s)
 - Treatment(s)
 - Medical Record Numbers
 - Infant gestational age, gender, Birth weight
- Request Medical Record(s)

Closing a Perinatal Field Record

Field Record Dispositions:

• <u>'C'- Infected, brought to treatment</u>

 Infant is a probable or confirmed case of congenital syphilis and was treated <u>at or after</u> the time the field record was initiated.

<u>'D'- Infected, not treated</u>

 Infant is a probable or confirmed case of congenital syphilis and was <u>not</u> treated.

<u>`E'- Previously treated for this infection</u>

- Infant is a probable or confirmed case of congenital syphilis and was treated <u>before</u> the time that the field record was initiated
- <u> 'F'- Uninfected</u>
 - Infant was not a case of congenital syphilis

<u>'X'- Deceased</u>

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• To be used for syphilitic stillbirths only

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Closing the Congenital Investigation Assignment

A Congenital Investigation Assignment is to be closed as the completion of the Congenital Syphilis Investigation:

- The Perinatal Field Record has been investigation and dispositioned
- All reported laboratory results have been documented appropriately
- All reported treatment(s) have been documented appropriately
- The Congenital Syphilis Question Package has been completed (yielding a case classification) <u>and</u> submitted to the supervisor via THISIS
 - The STD-126 is complete

Minimum Standards for Congenital Syphilis Investigations



- Health and Human Services Texas Department of State Health Services
- <u>85%</u> of perinatal syphilis field records (reactor and follow-up) are to be dispositioned in 7 days of initiation.
- <u>95%</u> of perinatal syphilis field records (reactor and follow-up) are dispositioned correctly.
- <u>90%</u> of "Congenital Investigation" Assignments are closed within 30 days following initiation.
- <u>95%</u> of Congenital Syphilis Investigation Reports are completed and submitted to DSHS Central Office Congenital Syphilis Staff (Congenital Syphilis Question Package Closed) within 30 days of notification to the Reporting Jurisdiction.



Break

15 Minutes



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Mother's Event Summary

Event Summary

Event ID:	100000184	
Disease:	700 - Syphilis	
Person:	Ariel Mermaid Birth Date: 10/13/1997 Phone: (512) 777-1234	
Investigation Status:	Open	
Linked Events/Contacts:	0 linked event(s)/contact(s) (View)	
Attachments:	0 attachment(s) (Add)	
Notifications:	General Notifications (1) Diagnosis Code:	
	Workflow Status (1) Event is in workflows [View List]	
	Party Information (1) Party Information	

_							
	Event Data	Lab Results	Concerns	Persons	Tasks	Event Properties	Event History

Labs					
Lab No.	Collection Date	Test	Result	Modifier	Result \
>1	08/29/2019	SYPH - RPR	Positive		
1	08/29/2019	SYPH - RPR	Positive		1:2048
1	08/29/2019	SYPH - TP-PA	Positive		
2	08/27/2019	SYPH - RPR	Positive		1:512
2	08/27/2019	SYPH - TP-PA	Positive		



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Provider Report vs ELR

Templa	
Event Data Lab Results Concerns Persons Tasks Event Prop	
Update	
	t Source
	ort Source: Laboratory Report
	e Received at HD: 09/03/2019
	Name where Lab Received: Austin/Travis County
00/20/2010	nt Information
1 00/29/2019 STELL- LE-EX	t Name: Ariel
2/ U8////U19 SYPH-RPR	t Name: Mermaid
2 08/27/2019 SYPH - TP-PA Date	e of Birth: 10/13/1997
Sex:	
Add Lab Result Update Lab Result	
Ethni	
	ress1: 100 Atlantic Ocean Drive
Details City:	
Template: STD_LAB_TEMPLATE State	
Last Undate: 10/04/2019 ZIP:	77777
Lindeted By: Amenda Poich [aroich] Specim	men Info
Colle	ection Date: 08/29/2019
	ession Number: 2541000009762
	cimen Type: Blood
	ted Test
HD Name where Lab Received: Austin/Travis County Test:	
Patient Information Resu	
Flist Name. Aller	ted Test
Last Name: Mermaid Test:	
Specimen Info	
Collection Date: 09/27/2010 Resu	ult Value: 1:2048
Resulter Resulter	ted Test
Test.	
Resulted Test Resu	
	rming Laboratory
	V-Specify Performing Laboratory Name: Under the Sea Hospital Labs
nonz	ing Facility & Ordering Provider
	V-Specify Ordering Facility Name: Under the Sea Hospital
	v-Specify Ordering Facility Type: Hospital Inpatient
Result: Positive Additio	onal Clinical Information
Addit	itional Clinical Information: Labor & Delivery



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Maternal Field Record

Case Assignment / Field Record - Ariel Mermaid - 700 - Syphilis

						Current State
Outcome Fie	eld Follow-up		Complete	d by		Amanda Reicl
						Initial Status
Initial jurisdiction	PHFU DSHS Central Office					
* Initial date	09/03/2019					
* Initial assignment outcome	Field Follow-up 🔻					
* Priority	V					
Completed by	Amanda Reich					
Date of outcome	10/04/2019					
Lock initial assignment block	k Yes v					
						ment / Field Re
* Assignment type 🗉			Field Record / Ir	nterview <	Add New	
Assignment type lock			Yes •			
* Created by			Amanda Reich			
Create date - syphilis			10/04/2019			
* Is this a field record or in	nterview only?		Field Record •			
* Field Record ID			1000005			
Assignment						
* Jurisdiction assigned to			PHFU Austin	•		
* Person assigned to					R 🗊	
* Assignment reason			New STD and P	regnancy	•	
Field Record		N				
* Referral basis (Syphilis)			T1 - Positive lab	test		•
* Date initiated (Syphi	ilis)		09/03/2019			
* Initiating agency			PHFU Austin		🕸 💼	
* Investigating agency			PHFU Austin		R 🗊	
Frequency of exposure	(for contacts to disease)					
	and Follow-ups					
* Is this patient notifiable?			Yes	•		
Is this patient notifiable			No 🔻			
Congenn	tai syphilis symposiu	IIII JID P	Tuyiani Su	.an 20	19	



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Infant Event Summary

Event Summary

Basic Information		Notes (A
Event ID:	100000185	
Disease:	700 - Syphilis	
Person:	Baby Girl Ariel Mermaid Birth Date: 09/01/2019	
Investigation Status:	Open	
Linked Events/Contacts:	0 linked event(s)/contact(s) (View)	
Attachments:	0 attachment(s) (Add)	
Notifications:	Concerns (2) Morbidity: Event does not meet lab/symptom criteria for Confirmed neuro-involvement Congenital: Congenital syphilis question package must be completed Congenital Syphilis Notifier (1) Remember to make a new morbidity for this event.	_
	General Notifications (1) Diagnosis Code:	
	Workflow Status (1) Event is in workflows [View List]	
	Party Information (1) Party Information	
Edit Event Properties	Copy Event	

Event Dat	a Lab Results	Concerns	Persons	Tasks	Event Properties	Event History			
Laba				,					
Labs	Qalla stian Dat		T			De		Ma di Cara	Descritte
Lab No.	Collection Dat	(e	Tes	t		Res	sult	Modifier	Result \
>1	09/01/2019		SY	PH - RPR		Pos	sitive		1:32
1	09/01/2019		SY	PH - TP-P/	Ą	Pos	sitive		
1	09/01/2019		SY	PH - CSF \	VDRL	Pos	sitive		1:4
1	09/01/2019		SY	PH - CSF I	Protein				198
1	09/01/2019		SY	PH - CSF \	WBC				43



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Infant Field Record

		Init	ial Status			
Initial jurisdiction	PHFU DSHS Central Office					
* Initial date	09/03/2019					
* Initial assignment out	Field Follow-up 🔻					
* Priority	Y					
Completed by	Amanda Reich					
Date of outcome	10/07/2019					
Lock initial assignment block	Yes v					
		Case Assignment /	Field Record Information			
* Assignment type ⊡		Field Record / Interview •	Add New			
Assignment type lock		Yes •				
* Created by		Amanda Reich				
Create date - syphilis		10/07/2019				
* Is this a field record or intervi	ew only?	Field Record *				
* Field Record ID		1000007				
Assignment						
* Jurisdiction assigned to		PHFU Austin 🔹				
* Person assigned to			🕸 💼			
* Assignment reason		New Syphilis	T			
Field Record						
* Referral basis (Syphilis)		T1 - Positive lab test	•			
* Date initiated (Syphilis)		09/03/2019				
* Initiating agency		PHFU Austin				
* Investigating agency		PHFU Austin				
Frequency of exposure (for c	ontacts to disease)					
Notifications and	Follow-ups					
* Is this patient notifiable?		Other •				

Congenital Assignment



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Case Assignment / Field Record - Baby Girl Ariel Mermaid - 700 - Syphilis

Current Status Texas Department of State Health Services Outcome Field Follow-up Completed by Amanda Reich **Initial Status** Initial jurisdiction PHFU DSHS Central Office * Initial date 09/03/2019 * Initial assignment outcome Field Follow-up < * Priority v Completed by Amanda Reich Date of outcome 10/07/2019 Lock initial assignment block Yes v Case Assignment / Field Record Information * Assignment Type: Field Record Add New Field Record Assignment Reason/Referral Basis: New Syphilis/T1 - Positive lab test Assigned Jurisdiction/OOS City-State: PHFU Austin/-Assigned To/Interview Worker: / Assigned Date: 10/07/2019 Outcome/Disposition: + Assianment type 🖃 Add New Congenital Investigation • Assignment type lock Yes v * Created by Amanda Reich Create date - syphilis 10/07/2019 Assignment * Jurisdiction assigned to PHFU Austin • * Person assigned to Q) 🕅 **Case Assignment Outcome** * Assignment outcome • Coinfection Information Iteration ID of existing block 1000008 Source case of the current block

100000185 - 700 - Syphilis - Baby Girl Ariel Mermaid 획 面

•

Prevents this answer block from being joined if the current case is joined

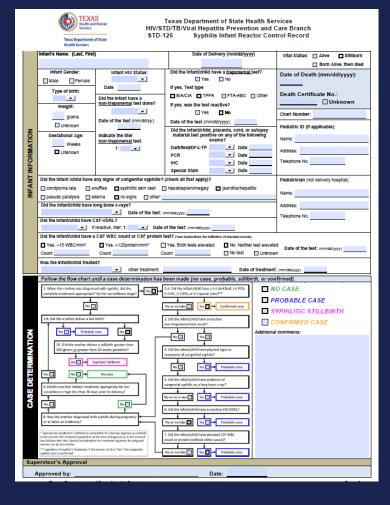


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STD-126 Syphilis IRCR

		TEXA Bealth an Services Texas Department Health Services	of State		HIV/S STD-	Texas De TD/TB/Vira 126		itis Pr	event	tion an	nd Ca	are Brai				
		Unique identifier/	Control N	umber		Date Reporte	d to Health (dd/yyyy)	Dept.	Da		Card S Vdd/yy	ubmitted		Date A	salgneo kd/yyyy)	1
		_	-								,,,,,,,			QUILLEG		
	Sur	veillance Site	R	eporting State		Report	ing County			Repo	orting C	aty		DIS	Name	
				48												
	Mothe	r's Name: (Last, Firs)	t, MI)		Soci	al Security Nur	nber	Date of	Birth (n	nm/dd/yyy	yy)	Cha	rt/Medical	Record	Numbe	er 🛛
		's Home Address and	d Phone				Race	_					Care Provid	ler:		
	Street A City:	Address:	Phone			 I	other, descr					Name:				
		Zip Code:	Phone		1	Hisp/Latino	Ethnicit			Unknov		Address: _ Telephone	No	_		
		other reside outside T				піврігаціто	Marital Sta		ano	Onknow	wn			-		
	- Chaine	If yes, w		ing programoy i			maritar ota	-	1			Hospital:	g Hospital	Physic	an	_
		If yes, wh				Substance u	e (UDS or	_	_	iit)		Physician:				
	Last M	Menstrual Period		OB History			Amphet			bituates		Address:				
	(mm/dd/yyyy)	(Including	g this birth)	Ben	zodiazepines	Cocaine		Her			Telephone	No.			
		G.	P	A	Mar	ljuana (THC)	Methad	one	□ Mo	rphine	ł	What was	mother's cl	inical st	age of a	syphilis
		Unknown			⊡ ∞)	codone	None		🗖 Uni	kinot perfe		during this	pregnancy	?		
	Indi	icate <u>ALL</u> trimesters th (check all th		eceived care	lf of	her, list										
		one 🔲 First 🗖 Seci		'hird 🔲 Unk	-		the second s	and the day				syphills du	mother's a ring her pre	egnancy	100 stag ?	Je or
		t prenatal visit: (mm/d		Number of	In	dicate when mo	followi	yphillis te ng:	esting d	iuring the	•					-
		None U		prenatal visits:			3rd Trim	ester				Other me	dical cond	itions		
	Mothe	r's last known HIV St		_	First	r Prenatal*	(28-32		Delivery							
	D Pos		Rown Hiv Status: gestation)*													
-	Not Not	Tested Unknow	vn Dat	te:												
ō	Mothe	r's Insurance status c		a pregnancy	Yes	No Unk	Yes No	Unk	Yes	No U	Jink					
I E			-		Date:		Date:		Date							
N							Date.		Date	·	_					
15					*reguire	d by Texas Healt		Code 81,0		-						
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THISIS CS QP DEMO



Texas Department of State Health Services

THISIS Test Environment

- Congenital Syphilis QP
- Morbidity
- Attachments
- Closing Assignments



TB, HIV, & STD Integrated System (THISIS)

If you do not agree to be bound by the terms and conditions, promptly exit this application. Terms Of Use

This AGREEMENT is entered into by and between the State of Texas, Department of State Health Services (DSHS) and you, the "User" of the Texas Tuberculosis (TB), Human Immunodeficiency Virus (HIV), and Sexually Transmitted Disease (STD) Integrated System (THISIS).

User must be registered with DSHS or a DSHS authorized entity in order to use this system. As part of this registration, the User must sign the DSHS Confidentiality Agreement. User's assigned ID and password are non-transferable, and may not be shared with any other employee, individual, or entity

User has read, understands, and shall comply with the DSHS "Computer Use Agreement" and the TBIHIV/STD & Viral Hepatitis Unit Confidentiality Agreement and certifies completion of the DSHS Security/Computer Use and the TBIHIV/STD & Viral Hepatitis security trainings within the previous 12 months.

User agrees to use best efforts and take all steps reasonably necessary to prevent unauthorized access to, use of, or disclosure of personal information from the system. User will immediately notify DHS both orally and in writing about any unauthorized access to or use of data, and take such measures as DBHS deems are reasonable and necessary to mitigate or address any unauthorized access to, use of, or disclosure of personal information from the system. The example of the system control and the system and the system.

User agrees to follow all State of Texas IT policies and technical standards as published by the Texas Department of Information Technology.

Login	
Username:	
Password:	
Application:	Main 🔻
	Login
	Reset password



Mother's Event Summary

Health and Human Services Texas Department of State Health Services

Event Summary

Basic Information		Notes (<u>Add/Edit Show My Notes</u>)
Event ID:	100005140	10/01/2019 10:37 (Generic) - Amanda Reich
Disease:	700 - Syphilis	Delivered stillborn male infant on 09/25/201
Person:	Elsa Snow Birth Date: 01/01/1994 Phone: (214) 555-2525	
Investigation Status:	Open	
Linked Events/Contacts:	0 linked event(s)/contact(s) (View)	
Attachments:	0 attachment(s)	
Notifications:	General Notifications (1) Diagnosis Code:	
	Party Information (1) Party Information	
Edit Event Properties		

Event Data Lab Results Concerns

ns Persons Event History

Labs						
Lab No.	Collection Date	Test	Result	Modifier	Result Value	Ordering Faci
>1	09/25/2019	SYPH - TP-PA	Positive			
1	09/25/2019	SYPH - RPR	Positive		1:256	



Health and Human Services Texas Department of State Health Services

Case Assignment/Field Record Question Package

	Case Assignment / Field Rec
* Assignment type 🗉	Field Record / Interview Add New
* Created by	Amanda Reich
Create date - syphilis	10/01/2019
* Is this a field record or interview only?	Field Record V
* Field Record ID	1001373
Assignment	
* Jurisdiction assigned to	PHFU Dallas 🔹
* Person assigned to	System Administrator
* Assignment reason	New STD and Pregnancy Image: State Sta
Field Record	
* Referral basis (Syphilis)	T1 - Positive lab test <pre>v</pre>
* Date initiated (Syphilis)	10/01/2019
* Initiating agency	PHFU Dallas
* Investigating agency	PHFU Dallas 🚳 🏛
Frequency of exposure (for contacts to disease)	
Notifications and Follow-ups	
* Is this patient notifiable?	Yes 🔻
Is this patient notifiable by internet ONLY?	No 🔻
Initiate for Internet follow-up?	No 🔻



Pregnancy Status

Texas Department of State Health Services

Home •		
House v		
25 Frosty Lane		
Dallas	* State	TX 🔹
75210	County	Dallas County
USA		
(214) 555-2525	Phone - land line	
	Employment information	
		\sim
Yes 🔻	Number of weeks pregnant (must be a number between 1-44 or 999 to indicate unknown)	22
	House v 25 Frosty Lane Dallas 75210 USA (214) 555-2525	House v 25 Frosty Lane Dallas 75210 USA (214) 555-2525 Phone - land line

	Pregnancy information
* Was the patient pregnant at the time of this event?	Yes 🔻
Number of weeks pregnant at the time of this event?	22
Approximate due date	01/29/2020
Currently in prenatal care?	No 🔻
Congenital investigation status	Pending
Additional pregnancy in the last 12 months?	No 🔻
New pregnancy after syphilis diagnosis	T

Creating Congenital FR and Assignment

Case Assignment / Field Record - Boy of Elsa Snow - 700 - Syphilis



TEXAS Health and Human Services

Texas Department of State Health Services

		C	urrent Status
Outcome		Completed by	
			nitial Status
Initial jurisdiction			
* Initial date			
* Initial assignn	Field Follow-up 🔻		
* Priority	•		
Completed by	Amanda Reich		
Date of outcome	10/04/2019		
Lock initial assignment block	Yes •		
		Case Assignmer	nt / Field Record Information
* Assignment type 🗉		Field Record / Interview *	Add New
* Created by		Amanda Reich	
Create date - syphilis		10/04/2019	
* Is this a field record or intervi	ew only?	Field Record 🔻	
* Field Record ID		1001379	
Assignment			
* Jurisdiction assigned to		PHFU Dallas 🔹	
* Person assigned to			R
* Assignment reason		Other	T
Specify other		Syphilis Stillbirth	
Field Record			
* Referral basis (Syphilis)		F1 - Congenital Follow-Up) 🔻
* Date initiated (Syphilis)		10/01/2019	
* Initiating agency		PHFU Dallas	🕸 💼
* Investigating agency		PHFU Dallas	R 🖞
Frequency of exposure (for o	contacts to disease)		
Notifications and	Follow-ups		
* Is this patient notifiable?		No - Deceased	

Creating Congenital FR and Assignment

Case Assignment / Field Record - Boy of Elsa Snow - 700 - Syphilis

Outcome			Completed by
Initial jurisdiction			
* Initial date			
* Initial assignment outcome	Field Follow-up 🔻		
* Priority	v		
Completed by	Amanda Reich		
Date of outcome	10/04/2019		
Lock initial assignment block	Yes V		
Assigned Jurisdiction/OOS Ci Assigned To/Interview Worker Assigned Date: 10/04/2019 Outcome/Disposition: Outcome/Disposition Date:	Basis: Other/F1 - Congenital Follow-Up ity-State: PHFU Dallas/- :: /		
Assignment type 🗉		Congenital Investigation	 Add New
* Created by		Amanda Reich	
Create date - syphilis		10/04/2019	
Assignment			
* Jurisdiction assigned to		PHFU Dallas 🔹	
* Person assigned to			R
Case Assignment * Assignment outcome	tOutcome		•
Iteration ID of existing block		1001380	
Prevents this answer block f	from being joined if the current case is joined	T	
* Indicates required field			

Create both the Field Record and Congenital Investigation Assignment simultaneously

Health and Human Services

Texas Department of State Health Services



CS QP: Maternal Information

			Demographics			
Mother's First Name	Elsa		Mother's Last Name	Snow	Mother's Date Of Birth	01/01/1994
Legacy Mother's city			Legacy Mother's state	T		
Legacy Mother's zip code						
Legacy Mother's county		(1)	Legacy Mother's country	T		
Mother's event linked to this event	Yes •					
* Event ID of linked mother	100005140 - 700 - Syphilis	- Elsa Snow 🎕 💼				
Mother's first name	Elsa		Mother's last name	Snow		
Mother's birth date	01/01/1994					
Mother's race	White •		Mother's ethnicity	Not Hispanic or Not Latino 🔻		
Mother's city	Dallas		Mother's state	TX V		
Mother's zip code	75210					
Mother's county	Dallas County	① ① ① ①	Mother's country	USA 🔹		
Mother's current marital status	Single, Never Married	•				
Mother had insurance during pregnancy	No 🔻					
Was Mother's Treatment Adequate	NO					
Did mom reside outside of Texas during pregnancy?	No 🔻					

			Labor and Delivery	
* Date of delivery	09/26/2019		Type of birth	Singleton •
Location of birth	Hospital	▼		
Delivering facility	Not answered 획 💼			
Do you want to create a new facility if you could not find your facility in system?	T			
If it is not any facility, please specify your own answer				
Mother's medical record number at delivering hospital	0123456789			

		Maternal Treatment	
* Mom re	eceived treatment	Yes	
Mother	's treatment	2.4 MU benzathine penicillin 🔻	



Maternal Syphilis

		Maternal Clinical	
Last menstrual period	Unknown		
* Maternal gravida 🚹	2	* Maternal parity 🚹	1
* Number of stillbirths prior to this pregnancy	0	* Number of miscarriages and abortions prior to this pregnancy	1
* Prenatal care	Unknown 🔻		
* Mother's clinical stage of syphilis during pregnancy	Late (750) or late latent (745/755) •	* Mother's surveillance stage of syphilis during	Late (750) or late latent (745/755) ▼

Materi	nal Testing
Yes 🔻	
No 🔻	
No 🔻	
Yes 🔻	
09/25/2019 Add New	
RPR 🔻	
Reactive •	
1:256 🔹	
09/25/2019 Add New	
TP-PA 🔻	
Reactive •	
Positive •	
09/25/2019	
	Yes ▼ No ▼ No ▼ Yes ▼ 09/25/2019 ▲ Add New RPR ▼ Reactive ▼ 1:256 ▼ 09/25/2019 ▲ Add New TP-PA ▼ Reactive ▼ Positive ▼

Manage Person



Edit Person

First Name:

Middle Name:

Last Name:

Health and Human Servi Texas Department of Sta Health Services

Suffix:

Birth Date:

Death Date:

Living Status:

Social Security Number:

Additional Demograph Name Type:

Alternate Social Security

Alternate Date of Birth:

eHARS Case ID:

Accurint ID:

TDCJ SID:

Ethnicity:

Race:

Sex at Birth:

Current Gender Identity:

Born in the US:

Boy of Elsa

Person Summary

Demographic I	nformatio	n (<u>View History</u>)	
Name:		Snow, Boy of Elsa	
Birth Date:		09/26/2019	
Death Date:		09/26/2019	
Living Status:		Dead	
Age:		0	_
Social Security	Number:		
Ethnicity		Not Hispanic or Not Latino	
Race		White	
Sex at Birth		Male	
Current Gender	Identity	Male	
Born in the US		Yes	
Party ID:		PBFCDNKIWN	
Create Date:		10/01/2019	
	Not Hispai	nic or Not Latino 🔻	
[White	•	Add New
	Male	V	
	Male	▼	
[Yes	▼	



Baby's Information

Texas Department of State Health Services

		Child Information		
* Child vital status	Stillborn 🔻			
Date of death (update in person tab)	09/26/2019			
Was an autopsy performed?	Unknown V	Death certificate number	Give cause(s) of death from death certificate	Congenital Syphilis
Infant Medical Record	N/A			

]	1			
				Child Clinical		
 * Estimated gestational age at birth, in weeks (Use 999 for unknown) 	22]				
Birth weight (specify units) of child	Grams 🔻					
* Birth weight (grams)	312		Birth weight (lbs)	0	Birth weight (oz)	11
* Was the child asymptomatic? 🚺	Yes - the child was asympt	omatic 🔹				

Baby's Syphilis

Health and Texas Depa Healt

	C	hild Testing
* Did child have reactive non-treponemal test?	No Test 🔻	
r * Did child have a reactive treponemal test?	No Test 🔻	
* Did child have a darkfield exam or DFA-TP?	No test 🔹	
* Did child have a PCR exam?	No test 🔹	
* Did child have a IHC exam?	No test 🔹	
* Did child have a special stain exam?	No test 🔹	
* Did child have long bone x-rays?	No x-rays	
* Did child have a CSF-VDRL?	No test 🔹	
* Did child have a CSF cell count or CSF protein test?	No test	

		Child Treatment
* Was the child treated?	No treatment	▼
Specify why child was not treated	Patient deceased •	
Outpatient pediatric facility	Not answered 🕸 💼	
Do you want to create a new facility if you could not find your facility in system?	T	
If it is not any facility, please specify your own answer		

Approve for FIMR	•	
* Congenital syphilis case classification	Stillbirth	•
Submit for FLS	Yes	
Supervisor Approval	Yes	
CO Approval	Yes	
* Indicates required field		

Closing the Assignment



Texas Department of State Health Services

Reminder: After submitting the CS QP for supervisory approval

Assignment type 🗉	Congenital Investigation Add New
* Created by	Amanda Reich
Create date - syphilis	10/04/2019
Assignment	
* Jurisdiction assigned to	PHFU Dallas 🔹
* Person assigned to	🔍 🕲 🕅
Case Assignment Outcome	
* Assignment outcome	Investigation Complete
* Completed by	Amanda Reich
* Date of outcome	10/04/2019
Iteration ID of existing block	1001380
Prevents this answer block from being joined if the current case is joined	T
Indicates required field	

change the investigation status to complete



TEXAS Health and Human Services

Texas Department of State Health Services

Mother's Event History

Event Summary

Basic Information	100000186	No
Disease:	700 - Syphilis	
Person:	Tiana Princess Frog Birth Date: 07/01/1984 Phone: (832) 777-7777	
Investigation Status:	Open	
Linked Events/Contacts:	0 linked event(s)/contact(s) (View)	
Attachments:	0 attachment(s) (Add)	
Notifications:	General Notifications (1) Diagnosis Code:	
	Party Information (1) Party Information	
Edit Event Properties	Copy Event	

Event Data Lab Results Concerns Persons Tasks Event Properties Event History
--

Lab No.	Collection Date	Test	Result	Modifier	Result V
>1	05/01/2019	SYPH - RPR	Positive		1:32
1	05/01/2019	SYPH - TP-PA	Positive		
2	10/01/2019	SYPH - RPR	Positive		1:8
2	10/01/2019	SYPH - TP-PA	Positive		
3	08/01/2019	SYPH - RPR	Positive		1:64



Health and Human Services

Texas Department of State Health Services

Mother's Clinical

Clinical - Tiana Princess Frog - 700 - Syphilis

	Signs and Symptoms
* Is / was patient symptomatic? No 🔻	
	Treatment
* Patient received treatment Yes •	
* Medication start date: 06/15/2019 Benzathine Penicillin	G (Bicillin) ▼
Duration: x1 🗉	
Medication start date: 06/24/2019 Benzathine Penicillin Dosage: 2.4 mu Duration: x1 ⊞	G (Bicillin) ▼
Medication start date: 08/14/2019 Benzathine Penicillin Dosage: 2.4 mu Duration: x1 ⊞	G (Bicillin) ▼ Add New
	Pregnancy Information
* Was the patient pregnant at the time of this event?	Yes 🔻
* Was the patient pregnant at the time of this event? Number of weeks pregnant at the time of this event?	Yes Ves
Number of weeks pregnant at the time of this event?	25
Number of weeks pregnant at the time of this event? Approximate due date	25 08/14/2019
Number of weeks pregnant at the time of this event?Approximate due dateCurrently in prenatal care?	25 08/14/2019 Yes ▼
Number of weeks pregnant at the time of this event?Approximate due dateCurrently in prenatal care?Congenital investigation status	25 08/14/2019 Yes ▼ Pending ▼
Number of weeks pregnant at the time of this event?Approximate due dateCurrently in prenatal care?Congenital investigation statusAdditional pregnancy in the last 12 months?	25 08/14/2019 Yes ▼ Pending ▼
Number of weeks pregnant at the time of this event?Approximate due dateCurrently in prenatal care?Congenital investigation statusAdditional pregnancy in the last 12 months?New pregnancy after syphilis diagnosis	25 08/14/2019 Yes ▼ Pending ▼



TEXAS Health and Human Services

Texas Department of State Health Services

Infant Event Summary

Event Summary

Basic Information	n							Notes
Event ID:	10000018	7						
Disease:	700 - Syph	700 - Syphilis						
Person:	Baby Boy	Baby Boy Tiana Prince Frog Birth Date: 10/01/2019						
Investigation Statu	us: Open	Dpen						
Linked Events/Con	ntacts: 1 linked ev	1 linked event(s)/contact(s) (View)						
Attachments:	0 attachme	0 attachment(s) (Add)						
Notifications: Concerns (1) Congenital: Congenital syphilis question package must be completed								
		al Syphilis N ber to make	lotifier (1) a new morb	idity for th	nis even	t.		
		lotifications is Code:	(1)					
	Party Info	rmation (1) formation						
Edit Event Prope	Copy Ev	ent						
Event Data	Lab Results	Concerns	Persons	Tasks	Even	t Properties	Event History	
							· · · · ·	
Labs					_			_
Lab No.	Collection Date	Te	est			Result	Modifier	Result
> 1 ′	10/01/2019	S	YPH - FTA-A	BS		Positive		
1 '	10/01/2019	S	YPH - RPR			Positive		1:4

Congenital Syphilis Symposium STD Program Staff 2019

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THISIS CS QP DEMO



Texas Department of State Health Services

THISIS Test Environment

- Review of Medical Chart Hospital Record Next Steps?
- Field Record(s)
- Congenital Syphilis QP
- Clinical Scenario
 Treatment Recommendation
- Closing Assignment



If you do not agree to be bound by the terms and conditions, promptly exit this application. Terms Of Use

This AGREEMENT is entered into by and between the State of Texas, Department of State Health Services (DSHS) and you, the "User" of the Texas Tuberculosis (TB), Human Immunodeficiency Virus (HIV), and Sexually Transmitted Disease (STD) Integrated System (THISIS).

User must be registered with DSHS or a DSHS authorized entity in order to use this system. As part of this registration, the User must sign the DSHS Confidentiality Agreement. User's assigned ID and password are non-transferable, and may not be shared with any other employee, individual, or entity.

User has read, understands, and shall comply with the DSHS "Computer Use Agreement" and the TB/HIV/STD & Viral Hepatitis Unit Confidentiality Agreement and certifies completion of the DSHS Security/Computer Use and the TB/HIV/STD & Viral Hepatitis security trainings within the previous 12 months.

User agrees to use best efforts and take all steps reasonably necessary to prevent unauthorized access to, use of, or disclosure of personal information from the system. User will immediately notify DSHS both orally and in writing about any unauthorized access to or use of data, and take such measures as DSHS deems are reasonable and necessary to mitigate or address any unauthorized access to, use of, or disclosure of personal information from the system. See the second and take such measures as DSHS deems are reasonable and necessary to mitigate or address any unauthorized access to, use of, or disclosure of personal information from this system.

User agrees to follow all State of Texas IT policies and technical standards as published by the Texas Department of Information Technology.

•		- F	1
	Login		
	Username:		
	Password:		
	Application: Main		
	Login		
	Reset password		



> WOMEN AND BABIES

#STDMONTH #SyphilisStrikesBack

Thank you!

Readjourn tomorrow Friday, 10/11 at 9:00 am



Good Morning

Day Two: Congenital Syphilis Symposium for STD Program Staff



Welcome Desirae Special Speaker

Congenital Syphilis

Lupita Thornton PHI Manager - STD

Maria Martha PHI Specialist HIV/STD







Congenital syphilis evaluation

Lessons Learned

Future Plans

Congenital Syphilis



The **mission** of the Houston Health Department is to work in partnership with the community to promote and protect the health and social well-being of Houstonians and the environment in which they live.

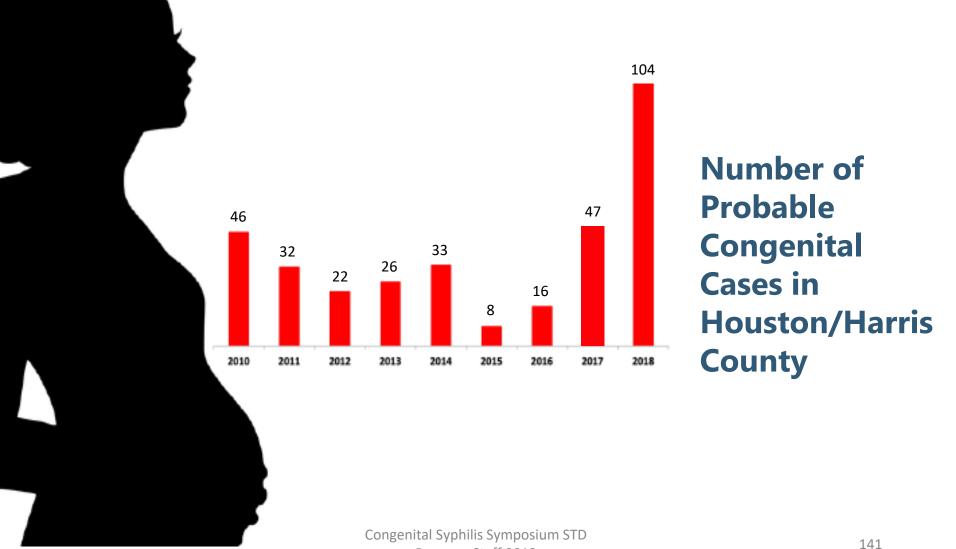
Our **vision** is the elimination of HIV, viral Hepatitis, and STD's through the adoption of health promoting behaviors among the residents of Houston, Harris County.

Essential functions:

- Inform, educate, and empower communities about HIV, viral Hepatitis and STD health issues.
- Mobilize partnerships with key community stakeholders to identify and prevent the spread of HIV, viral Hepatitis and sexually transmitted diseases.







Program Staff 2019

Congenital Syphilis Evaluation



- CS Investigations
 - Surveillance Transition
 - All reactors of child bearing age are investigated
 - Hospital calling for record searches
 - Obtain the mother and baby information
- *Rotation visits to large public L&D hospitals*





One Surveillance Investigator and back up

- Coordination of cases
- Access to EHR

Capacity Building activities with DSHS Monthly Calls Discuss cases, updates

FIMR participation •Collaborating

Other Process Decisions Two employees to conduct QA

Lessons Learned



Did not work:

- Combined surveillance duties along with congenital responsibilities
- Passive surveillance
- Change of surveillance supervision

What worked:

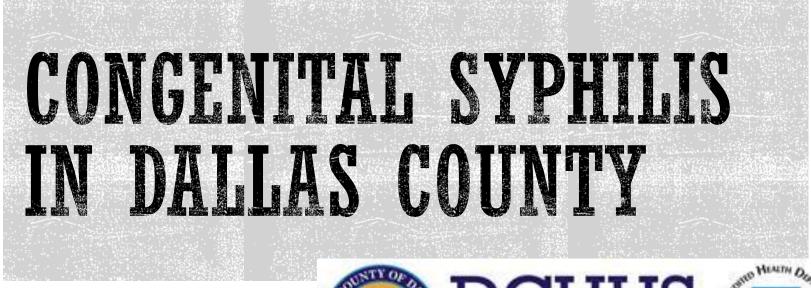
- STDMIS 😳
- Closely monitoring the classification and diagnosis of females of child bearing age
- Using the THISIS calculator to ensure EDC
- Working closely with DSHS
- Not completing the questionnaire packet for non-congenitals

Future Plans



- Maternity
 - Provider follow-up
 - Field activities
 - Interview activities
 - Reporting cases
- Neonates
 - Provider follow-up
 - Field activities
 - Reporting cases
- L&D
 - Provider follow-up
 - Field activities
 - Reporting cases
 - Interview activities
 - FIMIR Interviews

- Increase provider visitations
 - One pager
 - Sharing the new Texas Law (Texas Health & Safety Code 81.090)
 - We will continue to collaborate with providers to ensure timely reporting with complete information.



Amy Carter, BS, CHES

Dallas County Health and Human Services

Front Line Supervisor





HISTORICAL OVERVIEW

- Dallas County experienced being understaffed for several years
- Tried having all DIS working Congenital Syphilis (CS) records
- Changed to one DIS working CS and routine Field Records (FR)
- Currently one DIS works CS primarily with routine FR's occasionally



UNDERSTAFFING

•Our understaffing lead to:

- Under reporting of births in Dallas County
- Increased workload for DIS
- Delay in Lab entry from STD Surveillance Staff
- Delay in reporting to Central Office

How it looked

- One DIS working CS paper and routine paper
 - Average of over 40 field records.
- Multiple errors on reports



WORKING CS PAPER

Then: 4-6 DIS

- Had to balance between routine paper and CS responsibilities
- CS DIS Skipped in FR assignment rotation
- Workload
 - T1 Mom and Baby, routine syphilis and HIV field records
 - All interviews from the clinic
- Clinic Rotation
 - Full day clinic shifts every other day
 - Provider Visit every other Thursday Morning

- Now: 12 DIS
 - One CS DIS
 - One DIS trained as back-up (Team Lead)
 - FLS used to work CS Paper
 - Improved Tracking Tools for Pregnant Women
 - DCHHS Epidemiology generated tools
 - Utilization of THISIS built-in CSI workflow
 - Pregnant Woman Algorithm in Interview Rooms
 - Workload
 - F1
 - F4
 - T1: Infant, Women diagnosed at L&D, and one routine syphilis & HIV per month
 - Clinic Rotation
 - One Interview per week from Clinic
 - 3 Half Day Clinic shifts per week
 - Provider Visit every Thursday



LESSONS LEARNED

- Develop site specific CS Manual
 - Written Steps for working CS Field Records
 - Provider Contacts
 - How to request records/request forms
 - List of who needs face to face visit for records
 - Example STD 126 forms
 - Screenshots of THISIS (De-identified)
- Working with non-compliant providers
 - Develop relationships with provider
 - Provider Visits
 - Partner with Providers for education opportunities
 - Warm-hand offs with new staff
- Building relationships with neighboring Jurisdictions
- Monitoring CS DIS workload



SUCCESSES

- Timely Reporting
- Accurate reporting of investigations
- Building rapport with main delivery Hospital System
- -FIMR
 - Maternal Interviewing
 - Standing up our own FIMR
 - Internal Case Reviews

- Person signing off on reports has strong base knowledge of reporting
- Cross training
 - Training whole staff on CS
 - Bi-Weekly Huddles





Texas Department of State Health Services

Panel Q&A

Amy and Lupita

Congenital Syphilis Symposium STD Program Staff 2019

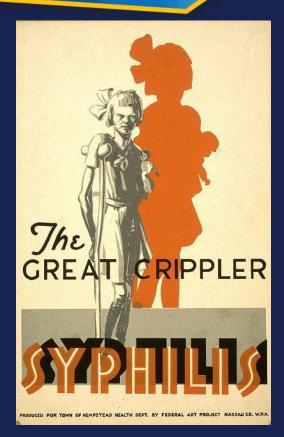
Small Group Discussion!



Texas Department of State Health Services

Please sit with other persons by your **role** in the congenital syphilis investigation process

- What are somethings that work well within your agency?
- In your role, what are somethings that you would like to take back to your agency?
- What are something you heard that you could implement at your agency?



Planning Committee

Congenital Syphilis Symposium: STD Program Staff 2019

- Karen Arrowood, MPH DSHS Central Office, CDC DSTDP- MIS & STD Surveillance Specialist Karen.arrowood@dshs.texas.gov 512-533-3030
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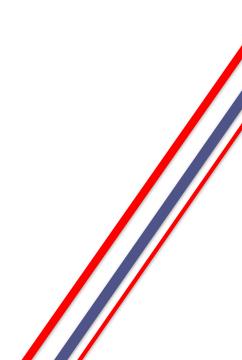
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Texas Department of State Health Services

STD-126 Syphilis Infant Reactor Control Record Instructions

Rev. March 11, 2019





The Syphilis Infant Reactor Control Record (STD-126) is a dual-purpose form for field-based case investigation and surveillance unit morbidity reporting of congenital syphilis. It is intended to provide:

- Statewide standardization of congenital syphilis case determination
- A two tier quality control system
- Streamlined reporting of congenital cases
- A practical system for both large and small programs

Reporting of Congenital Syphilis Cases is required by the Texas Department of State Health Services. There are four types of congenital case determinations that may be reported:

- 1. No Case
- 2. Confirmed Case
- 3. Stillbirth
- 4. Probable Case

Please refer <u>https://wwwn.cdc.gov/nndss/conditions/syphilis/case-definition/2018/</u> for official case definitions of congenital syphilis cases.

The information needed to determine whether an infant or a child meets the criteria for the CDC/Council for State and Territorial Epidemiology (CSTE) surveillance case definition of CS may be found in a variety of places:

- The mother's syphilis reactor file
- The mother's hospital record
- The infant's or child's hospital record
- The infant's or child's birth certificate or death certificate

No single record is likely to contain all the information needed; therefore, information should be obtained from several sources. For example, the following steps may be taken to evaluate a report of a reactive STS obtained at delivery:

- Check the STD program's reactor file to determine whether the mother had evidence of untreated or inadequately treated syphilis before delivery.
- Review the mother's hospital and prenatal records for demographic information, prenatal care information, findings at delivery (e.g., genital lesions, abnormal placenta, or stillborn infant), and serologic test results.
- Review the infant's or child's medical record for physical examination findings, radiographic, serologic, cerebrospinal fluid (CSF), other test results, and treatment information.

This form was created to assist with filling out the required fields for reporting requirements for the Centers for Disease Control and Prevention (CDC). You may find the CDC form and instructions at: <u>CDC Congenital Syphilis Form</u> <u>CDC Congenital Syphilis Instructions</u>

General Instructions

This form is a fillable Portable Document File (PDF) and must be completed electronically using Adobe.

This form should be completed after the information is obtained and entered into Maven Disease Surveillance Suite TB, HIV, and STD Integrated System (THISIS). Please be sure all of the information entered is reflective of the information collected.

A supervisor must review the form and the form must be submitted according to the Texas Department of State Health Services Program Operating Procedures (Chapter 8: Surveillance, <u>https://www.dshs.state.tx.us/hivstd/pops/chapo8.shtm</u>). After completing the form, upload it as an attachment to the infant or child's syphilis event in THISIS.

Out of Jurisdiction Reporting

The jurisdiction where the infant is born *regardless* of mother's address is the jurisdiction responsible for completing the STD-126.

- Example A: Mother's address is in Katy (Region 6/5S); she delivers in Houston. City of Houston Health Department is responsible for completing the STD-126.
- Example B: Mother's address is in Seguin (Region 8); she delivers in San Antonio. San Antonio Metro Health District is responsible for completing the STD-126.

The jurisdiction where mother resides *regardless* where she delivered is the jurisdiction where morbidity is assigned.

- Example C: Mother's address is Arlington; she delivers at Parkland Hospital in Dallas. Dallas County Health & Human Services will complete the STD-126, the morbidity will be assigned to Tarrant County.
- Example D: Mother's address is Georgetown; she delivers in Austin. Austin Public Health is responsible for completing the STD-126, the morbidity will be assigned to Williamson County (Region 7).

Reporting Site Information

	Unique Identifier/0	Control Number	Date Reported to Health Dept. (mm/dd/yyyy)	Date Morb Card Submitted (mm/dd/yyyy)	Date Assigned (mm/dd/yyyy)
Α	-	-	B	С	D
	Surveillance Site	Reporting State	Reporting County	Reporting City	DIS Name
E		48	F	G	Η

- **A.** Unique Identifier/Control Number: A seven-digit code is required for this field. This number is automatically generated by THISIS. Utilize the THISIS generated number in this field.
- **B.** Date Reported to Health Department: The date the lab(s) or birth of the infant was initially reported to the health department.
- **C.** Date Morbidity Card Submitted: The date the STD-126 was submitted to the DSHS Central Office.
- **D.** Date Assigned: The date assigned to the staff member for investigation.
- E. Surveillance Site: Enter the surveillance site that is completing the investigation.
- **F.** Reporting County: Enter the reporting county that is completing the investigation.
- **G.** Reporting City: Enter the reporting city that is completing the investigation.
- **H.** DIS Name: Enter the DIS name or Surveillance staff person who completed the congenital investigation.

Mother's Information

Mother's Name: (Last, First, MI)	Social Security Nu	mber Date of	Birth (mm/dd/yyyy)	Chart/Medical Record Number 4	
Mother's Home Address and Phone 5	• I	Race f other, describe:	7	Prenatal Care Provider: 10 Name: 10	
City: Phone:		Ethnicity	8	Address:	
State: Zip Code: Alt:	Hisp/Latino	Non-Hisp/Non-Lat		Telephone No	
Did mother reside outside Texas during pregnancy?		Marital Status	9	Delivering Hospital/Physician	
6 If yes, when:		E State Stat	·	Hospital: 11	
If yes, where:	Substance u	ise (UDS or Tox scre	en result) 14	Physician:	
Last Menstrual Period Mother's OB History	Alcohol	Amphetamines	Barbituates	Address:	
(mm/dd/yyyy) (including this birth) 13	Benzodiazepines	Cocaine	Heroin	Telephone No.	
G A	Marijuana (THC)	Methadone		What was mother's clinical stage of syphilis	
12 Unknown		 □ None	Unk/not performed	during this pregnancy? 15	
Indicate <u>ALL</u> trimesters the mother received care		_		·	
17 (check all that apply):				What was mother's surveillance stage of	
None First Second Third Unk	Indicate when mother had syphilis testing during the			syphilis during her pregnancy? 16	
First prenatal visit: (mm/dd/yyyy) Number of prenatal visits:		following:	22		
18 Inone Unknown 19	First Durants (*	3rd Trimester	Delivers	Other medical conditions 23	
Mother's last known HIV Status:	<u>First Prenatal*</u>	(28-32 wks gestation)*	Delivery		
Positive Negative Equivocal 21		gootanon			
□ Not Tested □ Unknown Date:					
Mother's insurance status during this pregnancy	Yes No Unk	Yes No Unk	Yes No Unk		
. 20	Date:	Date:	Date:		
	*required by Texas Healt	th and Safety Code 81.09	90		

- 1. Mother's Name: last name, first name and middle initial of the mother
- 2. Social Security Number: the social security number of the mother (optional)
- 3. Date of Birth: date the mother was born
- 4. **Chart/Medical Record Number:** number assigned to the mother's medical record at hospital or provider
- 5. Mother's Home Address: reported home address
- 6. **Mother's Residency:** mother's reported residency during pregnancy- ascertain if mother resided in Texas for the duration of her pregnancy
- 7. **Race:** mother's self-reported race. If mother is multi-racial, select other and enter select reported races.
- 8. Ethnicity: mother's self-reported ethnicity
- 9. Marital Status: mother's reported marital status
- 10. **Prenatal Care Provider:** information for the provider who conducted prenatal care for the mother. If no prenatal care was received, write N/A.
- 11. **Delivering Hospital/Physician:** information for the facility or provider that delivered the infant
- 12. **Last Menstrual Period:** time when the last menstrual period started. This will assist in determining the approximate gestational age of the infant
- 13. Mother's OB History:
 - a. Gravida: number of times a mother has been pregnant
 - b. *Para:* number of deliveries >20 weeks, including stillbirths. Multiple births such as triplets only count once
 - c. *Abortus:* number pregnancies lost, including induced. Stillbirths (greater than 20 weeks) do not count in this category
- 14. **Substance Use:** If a toxicology screen was performed or the mother disclosed during to a DIS substance use, indicate which substance(s) were used during pregnancy. If other substance(s) are noted in the medical chart or interview record, please list them under "other".
- 15. Clinical stage of syphilis: the stage of syphilis as determined during the current pregnancy.

- 16. **Surveillance stage of syphilis:** the stage of syphilis as is determined by public health followup or surveillance staff. Serofast cases are considered non-infected.
- 17. Trimesters received care: mark all of the trimesters the mother received prenatal care
- 18. First Prenatal Visit: date when the mother had her first prenatal visit and indicate the date care was initiated
- 19. Number of Prenatal Visits: indicate the number of prenatal visits mother had
- 20. **Mother's HIV status during pregnancy:** reported HIV status of the mother and the date of the *most* recent test.
- 21. **Mother's Insurance Status During Pregnancy:** select the mother's insurance status *during* pregnancy. If mother was uninsured at the time of delivery, select none
- 22. When mother had syphilis testing: this will determine when the mother had prenatal syphilis testing during her pregnancy. The mother should have test results from her first prenatal visit (required by law). It does not matter when she presented for prenatal care. If the mother first presents for care in the third trimester, she should be tested at that first visit, which may be at her 28-32 weeks gestation (required by law). Indicate the dates of each test.
- 23. **Other Medical Conditions:** this is free text field to indicate other pertinent medical conditions that may have impacted the mother's pregnancy (eg. Gestational diabetes)

	In director developments are serviced at the						_			
24	Indicate during pregnancy and delive	2 · · · · · · · · · · · · · · · · · · ·			T	-	De	sults		Titer
hal		Date (mm/dd/yyyy)			Test Type					
-u	Testing at Labor and Delivery			RPR		Other	Reactive	Non-Read		
No	Third Trimester Test			RPR		Other	Reactive	Non-Read	tive 1	1
Treponemal History	First test during pregnancy			RPR		Other	Reactive	Non-Read	tive 1	:
	Any known test prior to pregnancy			RPR		Other	Reactive	Non-Reac	tive 1	: •
25	Indicate during pregnancy and delive	s of tests:								
25)	_		Туре		Res	ults		
History	Testing at Labor and Delivery	P	No test performed	EIA or TPPA FTA-A		∐ Syphilis H □Other	ealthcheck	Reactive	□No	n-Reactive
	Third Trimester Test	p	No test Derformed	EIA or TPPA FTA-A		□S yphilis H □Other	ealthcheck	Reactive	No	n-Reactive
Treponemal	First test during pregnancy	p	No test No formed	EIA or TPPA FTA-A		□S yphilis H □Other	ealthcheck	Reactive	□Nor	n-Reactive
	Any known test prior to pregnancy if MOB had a previous syphilis diagnosis, please use the diagnosing lab	p	No test No ferformed	EIA or TPPA		☐ Syphilis H ☐ Other	ealthcheck	Reactive	□No	n-Reactive
	What was the mother's treatment?			Date	Foll	owing adequa	te treatment fo	r mother's surv	/eillanc	e stage:
Treatment History	26 · ·				. Ēī	iter decreased iter remained iter fluctuated	steady	l within one dil	ution	2 7
ent H							d, but more ent or follow-u	than one dilu p	tion inc	rease
eatm	•					iter fluctuated eturned within		e dilution, but v	with fol	low-up
L L	v						vidence of trea ne to evaluate t	atment failure o titer change	f reinfe	ection
						5		5		

- 24. **Non-Treponemal History:** mother's testing history using non-treponemal testing to identify potential syphilis infection. Please note that if mother is considered to be serofast, use the <u>diagnosing</u> lab titer associated with the mother's morbidity.
- 25. **Treponemal History:** mother's testing history using treponemal testing to confirm potential syphilis infection. Please note that if mother is considered to be serofast, use the <u>diagnosing</u> lab lab associated with the mother's morbidity **or** any known previous positive treponemal test.
- 26. **Mother's Treatment History:** indicate when the mother received treatment for syphilis diagnosis(es). If Mother received multiple treatments (eg Bicillin 2.4 MU x3), indicate the date of treatment given

example: Bicillin 2.4 MU 1/1/2019, Bicillin 2.4 MU 1/8/2019, Bicillin 2.4 MU 1/15/2019

27. Titer Response:

- a. **Titer decreased:** select this option if the mother had an appropriate four-fold or more decrease in titer.
- b. **Titer remained steady:** select this option if the mother's titer remained the same following treatment (most often seen when a diagnosing titer is low).
- c. **Titer fluctuated, but remained within one dilution**: select this option when the mother's titer increased two-fold at <u>any point</u> following treatment, but returned to normal (serofast titer).
- d. **Titer fluctuated, but more than one dilution increase without treatment or follow-up**: select this option when the mother's titer increased four-fold or more at <u>any</u> <u>point</u> following treatment and no public health follow-up was conducted (labs drawn and/or treatment given) to determine possible re-infection status.
- e. **Titer fluctuated more than one dilution, but with follow-up returned within normal limits:** select this option when the mother's titer increased four-fold or more at <u>any point</u> following treatment and public health follow-up labs were drawn <u>within three</u> <u>weeks</u> of rise in titer and titer returned to "normal" (serofast titer) without treatment.
- f. **Titer showed evidence of treatment failure or reinfection:** select this option if the mother received public health follow-up following a titer increase of four-fold or more following initial diagnosis and treatment and was found to be a new case of syphilis.
- g. Not enough time to evaluate titer change: select this option if the mother was treated late in pregnancy and there was not adequate time for the titer to change.

Infant Information

Infant's Name: (Last, First))	Date of Delivery (mm/dd/yyyy)	Vital Status: Alive Stillborn
28		29	30 Born Alive, then died
31 Infant Gender: Male Female 35 Type of birth: 36 Weight: grams Unknown Gestational Age: 39 Weeks Unknown	32 Infant HIV Status: Date Did the infant have a <u>non-treponemal</u> test done? 37 Date of the test (mm/dd/yy): Indicate the titer <u>non-treponemal</u> test: 1:	Did the infant/child have a treponemal test? 33 Yes No If yes, Test type EIA/CIA TPPA FTA-ABS Other If yes, was the test reactive? Yes No Date of the test (mm/dd/yyyy): Did the infant/child, placenta, cord, or autopsy material test positive on any of the following 40 exams? Darkfield/DFA-TP Date PCR Date	Date of Death (mm/dd/yyyy): 34 Death Certificate No.:
		IHC Date Special Stain Date	Telephone No.

- 28. Infant's Name: enter the infant's full name, last name first
- 29. **Date of Delivery:** enter the date the infant was delivered, this should be consistent with the infant's date of birth
- 30. Vital Status: enter the vital status of the infant at the time that report is submitted
- 31. Infant Gender: enter the gender at birth- this field must be completed
- 32. **Infant HIV Status:** enter in the HIV status of the infant at the time this form was being filled out. Indeterminate status is for infants whose status has not been clearly identified; if no test was performed or records or not available, choose no test performed/unknown.
- 33. **Treponemal testing:** enter in the treponemal test results for the infant- if a test was performed, enter the date the lab was drawn.
- 34. Date of Death: this item should be filled out only if the infant was stillborn or died after birth
- 35. Type of Birth: notate if this was a single birth (singleton), twins
- 36. **Birth weight:** enter the birth weight of the infant in grams. Normal birth weight can be from 2500 grams to 3,999 grams.
- 37. **Non-Treponemal Testing**: enter in the non-treponemal test results for the infant. If the infant was stillborn, this item may be left blank.
- 38. Chart Number: number assigned to the infant of child's medical record at hospital or provider
- 39. **Gestational Age:** enter the approximate gestational age of the infant in weeks. If the gestational age is a fraction (e.g. -372/7), round to the nearest whole number.
- 40. Placenta, cord, or autopsy tests for spirochetes:
 - a. **Darkfield/DFA-TP:** this is a special test looking specifically for T. pallidum.
 - b. **Infant Polymerase Chain Reaction (PCR) or other equivalent direct molecular methods:** testing of specimens from lesions, neonatal nasal discharge, placenta, umbilical cord, or autopsy material for the genetic markers of T. pallidum.
 - c. **Immunohistochemistry (IHC):** testing of specimens from lesions, placenta, umbilical cord, or autopsy material, detecting for antigens through the use of antibodies specific for T. pallidum.
 - d. **Special Stain (eg: silver staining):** testing of specimens, from lesions, neonatal nasal discharge, placenta, umbilical cord, or autopsy material using a special stain, for the presence of spirochetes.

41. **Pediatric Infectious Disease Clinician:** enter all contact information for the consulting pediatric infectious disease clinician

Did the infant /child have any signs of congenital syphilis? (check all that apply)?	Pediatrician (not delivery hospital):						
🗖 condyloma lata 🛛 snuffles 🔲 syphilitic skin rash 🔲 hepatosplenomegaly 🔲 jaundice/hepatitis							
pseudo paralysis edema no signs other:	Name:43						
Did the infant/child have long bone x-rays?	Address:						
Date of the test: (mm/dd/yyyy)	Telephone No.						
Did the infant/child have CSF-VDRL? 45							
✓ If reactive, titer: 1: ✓ Date of the test: (mm/dd/yyyy)							
Did the infant/child have a CSF WBC count or CSF protein test? ("see instructions for definition of elevated counts)							
Yes. >15 WBC/mm ³ Yes. >120protein/mm ³ Yes. Both tests elevated No. Neither test elevated	ed						
Count Count No test Unknow	Date of the test: (mm/dd/yyyy)						
Was the infant/child treated? 4.7	,						
other treatment: Date of treatment	t: (mm/dd/yyyy)						
Follow the flow short until a case determination has been made (no case, probable, stillbirth, or confirmed)							

- 42. Signs of Congenital syphilis: check all of the symptoms that apply.
- 43. **Pediatrician:** enter in all contact information for the pediatrician if known at the time of discharge.
- 44. **Long Bone X-Rays:** bone involvement is one sign of congenital syphilis. Enter whether or not a long bone x-ray was done, the result, and the date of the x-rays.
- 45. **CSF-VDRL:** enter whether or not the infant had a CSF-VDRL, the results, and the date of the test.
- 46. **CSF WBC or CSF protein test:** enter whether or not the infant had a CSF-WBC or protein test and what the results were. Cerebrospinal fluid (CSF) white blood cell (WBC) count and protein vary with gestational age. During the first 30 days of life, a CSF WBC count of >15 WBC/mm3 or a CSF protein >120 mg/dl is abnormal. After the first 30 days of life, a CSF WBC count of >5 WBC/mm3 or a CSF protein >40 mg/dl is abnormal, regardless of CSF serology (from CDC instructions).
- 47. **Infant treatment:** mark what type of treatment the infant received. If the begins one type of treatment, but does not complete the therapy, please indicate in the "Additional comments" and select "other". Please use the standard dosing and not the exact dosage when entering "other" treatments.



Texas Department of State Health Services HIV/STD/TB/Viral Hepatitis Prevention and Care Branch STD-126 Syphilis Infant Reactor Control Record

		Unique Identif	ier/Control N	Number	Date Reporte (mm	ed to Health Dep 1/dd/yyyy)	t.	Date Morb Card S (mm/dd/yy			ssigned dd/yyyy)
		-	-								
	Sur	veillance Site		Reporting State	Report	ting County		Reporting (City	DIS	Name
				48							
	Mothe	er's Name: (Last, F	First, MI)		Social Security Nu	mber Date	e of Birt	h (mm/dd/yyyy)	Chart/	Medical Record	Number
	Mother	r's Home Address	and Phone			Race			Prenatal Ca	e Provider:	
		Address:			If	f other, describe:			Name:		
	City:	7. 0. 1	Pho			Ethnicity			Address:		
	State:	Zip Code:		Alt:	Hisp/Latino	Non-Hisp/Nor Marital Status	I-Latino	Unknown	Telephone N		-
		other reside outsic	s, when:	ing pregnancy?		Marital Status			-	Hospital/Physic	ian
	If yes, where:			Substance u	se (UDS or Tox s	screen r	esult)	Hospital: Physician:			
		Menstrual Period		s OB History	Alcohol	Amphetamin		Barbituates	Address:		
	ı) (ı	mm/dd/yyyy)	(includi	ng this birth)	Benzodiazepines	Cocaine		Heroin	Telephone N	0.	
			G P	А	Marijuana (THC)	Methadone		Morphine	What was m	other's clinical s	tage of syphilis
		Unknown			Oxycodone	None		Unk/not performed	during this p	regnancy?	
	Indi	icate <u>ALL</u> trimester (check a	s the mother Il that apply):		If other, list:				What was m	other's surveilla	nce stage of
	No	one First S	Second	Third Unk	Indicate when m	other had evenhil	ia taatin	a during the		ig her pregnancy	
	Firs	t prenatal visit: (m	m/dd/yyyy)	Number of	indicate when m	following:	is testin	ig during the			
		None	Unknown	prenatal visits:		3 rd Trimeste			Other medie	cal conditions	
	Mothe	r's last known HIV			<u>First Prenatal*</u>	(28-32 wks gestation)*		<u>Delivery</u>			
	Pos	sitive Neg	ative	Equivocal		<u></u>	•				
z	Not	t Tested Unk	nown Da	ate:	Vaa Na Urk	Vac Na Un		Vee Ne Unk			
ō	Mothe	er's insurance stat	us during th	is pregnancy	res no Unk	Yes No Unk Yes No Unk Yes No Unk					
AT					Date:	Date: Date: Date:		Date:			
INFORMATION					*required by Texas Healt	h and Safety Code	81.090				
Ö		Indicate during	pregnancy a	and delivery, dat	es and results of tests	:					
Ž	al			Date	mm/dd/yyyy) No test Test Type			Resul	ts	Titer	
	Non- Treponemal History	Testing at Labor	and Deliver	y		RPR	VDRL	Other	Reactive	Non-Reactive	1:
MOTHER	No Hist	Third Trimester	lest 🛛			RPR	VDRL	Other	Reactive	Non-Reactive	1:
Б	Tre	First test during				RPR	VDRL	Other	Reactive	Non-Reactive	1:
Σ		Any known test			s and results of tests:	RPR	VDRL	Other	Reactive	Non-Reactive	1:
		indicate during	pregnancy a		(mm/dd/yyyy)	•	Test	Туре		Results	5
	Z					EIA or C	Α	Syphilis Health	ncheck		
		Testing at Labor	and Deliver	У	No test performed			Other		Reactive	Non-Reactive
	His				periorinea	EIA or C		Syphilis Health	check		
	lal	Third Trimester 1	Test		No test	TPPA	A	Other	ICHCCK	Reactive	Non-Reactive
	nen				performed	I FTA-ABS	6				
	Treponemal Histo				N. ()	EIA or Cl	A	Syphilis Health	ncheck	Depative	New Departure
	Le	First test during	pregnancy		No test performed	TPPA FTA-ABS		Other		Reactive	Non-Reactive
		A				EIA or Cl		Syphilis Health	ncheck		
		Any known test i if MOB had a previous sy			No test	ТРРА		Other		Reactive	Non-Reactive
		diagnosing lab			performed	11/1/100	r				
		What was the mo	thor's troat	nont?		Date	Follo	owing adequate tre	eatment for n	other's surveill	ance stage:
				inerit i							
	ry			ilent:				iter decreased			
	istory						т	iter remained stea	-	ithin one dilutio	n
	t History						T T	iter remained stea iter fluctuated, but	t remained w		
	tent History						т т т	iter remained stea	t remained w ut more tha		
	atment History						T T W T	iter remained stea iter fluctuated, but iter fluctuated, b vithout treatment o iter fluctuated mon	t remained w ut more tha r follow-up re than one d	n one dilution	increase
	Treatment History						T T W T	iter remained stea iter fluctuated, but iter fluctuated, b vithout treatment o iter fluctuated more eturned within nor	t remained w ut more tha r follow-up re than one d mal limits	n one dilution	increase follow-up
	Treatment History						T T W T T	iter remained stea iter fluctuated, but iter fluctuated, b vithout treatment o iter fluctuated mon	t remained w ut more tha r follow-up re than one d mal limits nce of treatm	n one dilution ilution, but with ent failure of re	increase follow-up



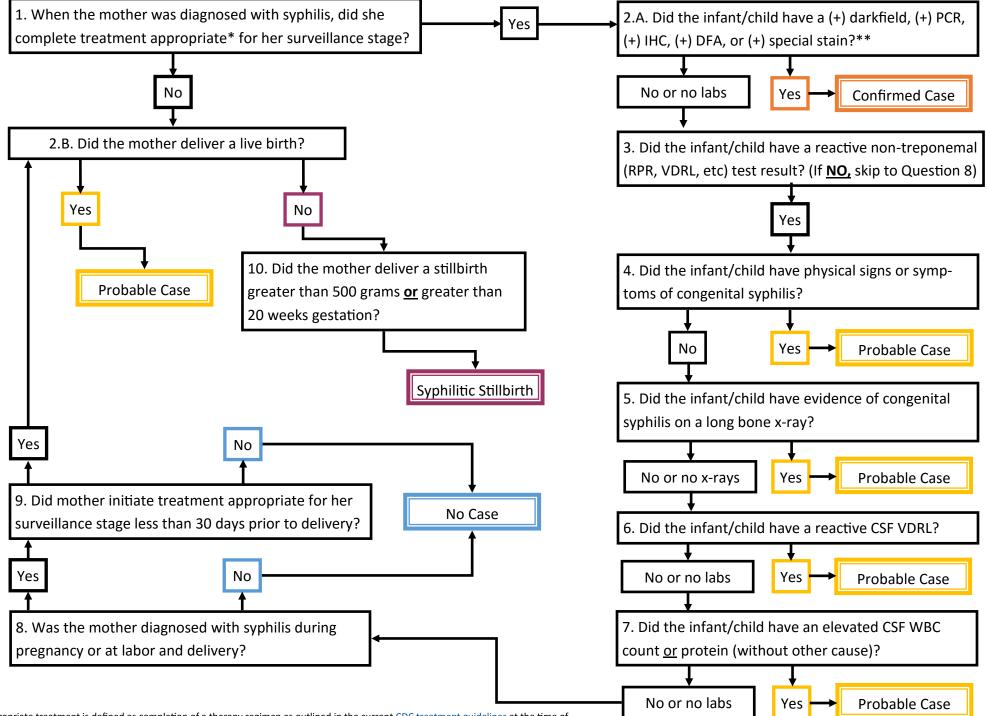
Texas Department of State Health Services

Texas Department of State Health Services HIV/STD/TB/Viral Hepatitis Prevention and Care Branch STD-126 Syphilis Infant Reactor Control Record

	Infant's Name: (Last, First	t)	Date of Delivery	(mm/dd/yyyy)	Vital Status: Alive Stillborn
		,			
	Infant Gender:		Did the infant/child have a t	trononomal toot?	Born Alive, then died
		Infant HIV Status:	-	lieponemaritest? No	Date of Death (mm/dd/yyyy):
	Male Female	Date	If yes, Test type	-	
	Type of birth:			FTA-ABS Other	Death Certificate No.:
		Did the infant have a non-treponemal test done?	If yes, was the test reactive		Unknown
	Weight:			۱o	Chart Number:
	grams	Date of the test (mm/dd/yy):	Date of the test (mm/dd/yyy	v):	
7	Unknown		Did the infant/child, placen		Pediatric ID (if applicable):
Į0	Gestational Age:	Indicate the titer	material test positive on a exams?		Name:
AT	Weeks	non-treponemal test: 1:	Darkfield/DFA-TP	Date	
RN	Unknown		PCR	Date	Address:
P.			ІНС	Date	Telephone No.
Z			Special Stain	Date	
INFANT INFORMATION	Did the infant /child have	any signs of congenital syphilis?	(check all that apply)?		Pediatrician (not delivery hospital):
ΕA	condyloma lata s	nuffles syphilitic skin rash	hepatosplenomegaly jau	undice/hepatitis	
Z	pseudo paralysis e	dema no signs other:			Name:
	Did the infant/child have I	ong bone x-rays?			Address:
		Date of the test: (mm/dd/yyyy)		Telephone No.
	Did the infant/child have (of the test: (mm/dd/yyyy)		
		a CSF WBC count or CSF protein t		eleverted encodes)	
	Yes. >15 WBC/mm ³	Yes. >120protein/mm ³	Yes. Both tests elevated	No. Neither test elevate	4
	Count		ount	No test Unknow	Date of the test: (mm/dd/yyyy)
	Was the infant/child treate				
		other treatment:		Date of treatment	(mm/dd/yyyy)
	Follow the flow chart u	Intil a case determination has l	been made (no case, proba	able, stillbirth, or con	firmed).
	1. When the mother was diagnos		2.A. Did the infant/child have a (+) darkfi		O CASE
	complete treatment appropriate	* for her surveillance stage?	(+) IHC, (+) DFA, or (+) special stain?**		
	No	ז ר	No or no labs Yes → Cont	firmed case	ROBABLE CASE
			*	°	YPHILITIC STILLBIRTH
	2.B. Did the mother deliver a live		3. Did the infant/child have a reactive non-treponemal test result?		YPHILITIC STILLBIRTH ONFIRMED CASE
Z	2.B. Did the mother deliver a live Yes → Probable			C	
lion	Yes Probable	case No		C	ONFIRMED CASE
IATION	Yes Probable	e case No	non-treponemal test result?	Additional	ONFIRMED CASE
MINATION	Yes Probable 10. Did the mother deliv 500 grams <u>or</u> greater the	er a stillbirth greater than an 20 weeks gestation?	non-treponemal test result?	Additional	ONFIRMED CASE
ERMINATION	Yes Probable 10. Did the mother deliv 500 grams <u>or</u> greater the	er a stillbirth greater than an 20 weeks gestation?	non-treponemal test result? No 4. Did the infant/child have physical signs symptoms of congenital syphilis?	Additional	ONFIRMED CASE
ETERMINATION	Yes Probable 10. Did the mother deliv 500 grams <u>or</u> greater the	er a stillbirth greater than an 20 weeks gestation?	non-treponemal test result? No 4. Did the infant/child have physical signs symptoms of congenital syphilis? Vo Ves Yes Pro	s or	ONFIRMED CASE
DETERMINATION	Yes Probable 10. Did the mother deliv 500 grams <u>or</u> greater that Yes No +	ecase No er a stillbirth greater than an 20 weeks gestation? Syphilitic Stillbirth No case	non-treponemal test result? No 4. Did the infant/child have physical signs symptoms of congenital syphilis?	s or bable case	ONFIRMED CASE
SE DETERMINATION	Yes Probable 10. Did the mother deliv 500 grams <u>or</u> greater that Yes S	er a stillbirth greater than an 20 weeks gestation?	non-treponemal test result? No 4. Did the infant/child have physical signs symptoms of congenital syphilis? Yes Yes Fro 5. Did the infant/child have evidence of congenital syphilis on a long bone x-ray?	s or bable case	ONFIRMED CASE
CASE DETERMINATION	Yes Probable 10. Did the mother deliv 500 grams or greater that Yes S Yes No S 9. Did the mother initiate treatm surveillance stage less than 30 da	er a stillbirth greater than an 20 weeks gestation?	non-treponemal test result? No 4. Did the infant/child have physical signs symptoms of congenital syphilis? Yes Yes Fro 5. Did the infant/child have evidence of congenital syphilis on a long bone x-ray?	s or bable case	ONFIRMED CASE
CASE DETERMINATION	Yes Probable 10. Did the mother deliv 500 grams or greater that Yes S Yes No S 9. Did the mother initiate treatm	er a stillbirth greater than an 20 weeks gestation?	non-treponemal test result? No 4. Did the infant/child have physical signs symptoms of congenital syphilis? Yes Yes Fro 5. Did the infant/child have evidence of congenital syphilis on a long bone x-ray?	s or bable case	ONFIRMED CASE
CASE DETERMINATION	Yes Probable 10. Did the mother deliv 500 grams <u>or</u> greater the Yes Yes No 9. Did the mother initiate treatm surveillance stage less than 30 da Yes 8. Was the mother diagnosed wi	er a stillbirth greater than an 20 weeks gestation?	non-treponemal test result? No Yes 4. Did the infant/child have physical signs symptoms of congenital syphilis? Yes Yes Pro 5. Did the infant/child have evidence of congenital syphilis on a long bone x-ray? No or no x-rays Yes Yes Pro 6. Did the infant/child have a reactive CS	s or bable case	ONFIRMED CASE
CASE DETERMINATION	Yes Yes Yes No No Yes No No No No No No No No No No	era stillbirth greater than an 20 weeks gestation? iyphilitic Stillbirth No case ent appropriate for her ays prior to delivery?	non-treponemal test result? No Yes 4. Did the infant/child have physical signs symptoms of congenital syphilis? Yes Yes Pro 5. Did the infant/child have evidence of congenital syphilis on a long bone x-ray? No or no x-rays Yes Yes Pro 6. Did the infant/child have a reactive CS	s or bable case	ONFIRMED CASE
CASE DETERMINATION	Yes Yes Yes Yes Yes Yes Yes Yes	er a stillbirth greater than an 20 weeks gestation? syphilitic Stillbirth No case ent appropriate for her ays prior to delivery? No th syphilis during pregnancy th syphilis during pregnancy the time of diagnosis or in the event of	non-treponemal test result? No Yes 4. Did the infant/child have physical signs symptoms of congenital syphilis? Yes Pro 5. Did the infant/child have evidence of congenital syphilis on a long bone x-ray? No or no x-rays For Congenital syphilis on a long bone x-ray? Yes Pro Congenital syphilis on a long bone x-ray? Yes Pro To or no x-rays Yes Pro To or no labs Yes Pro To or no labs Yes Pro Congenital syphilis on a long bone x-ray? Yes Pro Congenital syphilis on a long bone x-ray? No or no x-rays Yes Pro Congenital syphilis on a long bone x-ray? Yes Pro Congenital syphilis on a long bone x-ray? No or no x-rays Congenital syphilis on a long bone x-ray? No or no x-rays Congenital syphilis on a long bone x-ray? No or no x-rays Congenital syphilis on a long bone x-ray? No or no x-rays Congenital syphilis on a long bone x-ray? No or no x-rays Congenital syphilis on a long bone x-ray? Congenital syphilis on a long bone x-ray? Congenital syphilis on a long bone x-ray? Congenital syphilis on a long bone x-ray? No or no x-rays Congenital syphilis on a long bone x-ray? Congenital syphili	s or bable case F/VDRL? bable case	ONFIRMED CASE
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Texas Department of State Health Services Syphilis Infant Reactor Control Record STD-126 | Version 2019

Congenital Syphilis Case Classification Flow Chart



*appropriate treatment is defined as completion of a therapy regimen as outlined in the current <u>CDC treatment guidelines</u> at the time of diagnosis or in the event of two dilution titer rise. Special consideration for treatment regimens for pregnant women can be found <u>here</u>.

**Regardless of Mother's treatment, if the answer to 2A is "Yes", the congenital syphilis case is confirmed.

CDC Congenital Syphilis Case Definition

Considerations when following this flow chart:

- If an infant has a reactive darkfield, polymerase chain reaction (PCR), immunohistochemistry (IHC), direct fluorescent antibodies (DFA), or special stain test that is reactive for *Treponema pallidum* then <u>regardless</u> of mother's treatment history or infant's serological findings this will be a <u>confirmed case</u>.
- If mother did not complete treatment appropriate to her surveillance stage of syphilis (verify surveillance stage upon congenital syphilis case report)
 <u>OR</u> initiated treatment less than 30 days prior to delivery and had a live birth- the infant will be classified as a probable case.
- For a probable case to occur based on clinical manifestations an infant must have a reactive non-treponemal test AND
 - ◊ Positive CSF VDRL <u>OR</u>
 - Elevated CSF WBC (without other cause): Elevated CSF WBC is defined as greater than 15 WBC/mm³ for the first 30 days of life and greater than 5 WBC/mm³ after the first 30 days of life <u>OR</u>
 - Elevated CSF protein (without other cause): Elevated CSF protein defined as greater than 120 mg/dl for the first 30 days of life and greater 40 mg/dl for after the first 30 days of life OR
 - Evidence of congenital syphilis on a long bone x-ray (bowing of the long bones) **OR**
 - ♦ Any one of the following clinical manifestations outlined on the flow chart (without other cause)
 - Common physical signs and symptoms of congenital syphilis in infants are:
 - * Hepatosplenomegaly (enlarged liver and spleen)
 - * Rash
 - * condyloma lata
 - * Snuffles (nasal discharge)
 - * Jaundice (yellowing of the tissues)
 - * Pseudoparalysis of the extremities
 - * Edema (tissue swelling from excess fluid)
 - * Nerve deafness
 - Common physical signs and symptoms of congenital syphilis in an older child are:
 - * Ocular issues (cataracts, keratitis)
 - * Nerve deafness
 - * Dental issues (mulberry molars, Hutchinson teeth)
 - * Facial and skin abnormalities (frontal bossing, saddle nose, rhagades)
 - * Limb and extremities abnormalities (anterior bowing of the shins, <u>Clutton joints</u>)
- If a fetal demise occurred at greater than 500 grams <u>OR</u> roughly 20 weeks gestation or greater <u>AND</u> if mother did not complete treatment appropriate to her surveillance stage of syphilis (verify surveillance stage upon congenital syphilis case report) <u>OR</u> initiated treatment less than 30 days prior to delivery then the infant will be classified as a <u>congenital syphilis stillbirth.</u>

Additional Considerations: If mother is a documented biological false positive during the current pregnancy and a NR treponemal test is obtained from labor and delivery, no case report is needed. If mother has never met case criteria at the time of delivery, no case report is needed.

CSTE (NNDSS) Case definition

https://wwwn.cdc.gov/nndss/conditions/syphilis/case-definition/2018/

Congenital Syphilis

Clinical Description

A condition caused by infection in utero with *Treponema pallidum*. A wide spectrum of severity exists, from inapparent infection to severe cases that are clinically apparent at birth. An infant or child (aged less than 2 years) may have signs such as hepatosplenomegaly, rash, condyloma lata, snuffles, jaundice (nonviral hepatitis), pseudoparalysis, anemia, or edema (nephrotic syndrome and/or malnutrition). An older child may have stigmata (e.g., interstitial keratitis, nerve deafness, anterior bowing of shins, frontal bossing, mulberry molars, Hutchinson teeth, saddle nose, rhagades, or Clutton joints).

Laboratory Criteria for Diagnosis

Demonstration of *Treponema pallidum* by:

- Darkfield microscopy of lesions, body fluids, or neonatal nasal discharge, OR
- Polymerase chain reaction (PCR) or other equivalent direct molecular methods of lesions, neonatal nasal discharge, placenta, umbilical cord, or autopsy material, **OR**
- Immunohistochemistry (IHC), or special stains (e.g., silver staining) of specimens from lesions, placenta, umbilical cord, or autopsy material.

Case Classification

Probable

A condition affecting an infant whose mother had untreated or inadequately treated* syphilis at delivery, regardless of signs in the infant, **OR** an infant or child who has a reactive non-treponemal test for syphilis (Venereal Disease Research Laboratory [VDRL], rapid plasma reagin [RPR], **OR** equivalent serologic methods) **AND** any one of the following:

- Any evidence of congenital syphilis on physical examination (see Clinical description)
- Any evidence of congenital syphilis on radiographs of long bones
- A reactive cerebrospinal fluid (CSF) venereal disease research laboratory test (VDRL) test

- In a non-traumatic lumbar puncture, an elevated CSF leukocyte (white blood cell, WBC) count or protein (without other cause):
 - Suggested parameters for abnormal CSF WBC and protein values:
- 1. During the first 30 days of life, a CSF WBC count of >15 WBC/mm3 or a CSF protein >120 mg/dl is abnormal.
- After the first 30 days of life, a CSF WBC count of >5 WBC/mm3 or a CSF protein >40 mg/dl, regardless of CSF serology.

The treating clinician should be consulted to interpret the CSF values for the specific patient.

*Adequate treatment is defined as completion of a penicillin-based regimen, in accordance with CDC treatment guidelines, appropriate for stage of infection, initiated 30 or more days before delivery.

Confirmed

A case that is laboratory confirmed.

Comments

Congenital and acquired syphilis may be difficult to distinguish when a child is seropositive after infancy. Signs of congenital syphilis may not be obvious, and stigmata may not yet have developed. Abnormal values for CSF VDRL, WBC count, and protein may be found in either congenital or acquired syphilis. Findings on radiographs of long bones may help because radiographic changes in the metaphysis and epiphysis are considered classic signs of congenitally acquired syphilis. While maternal antibodies can complicate interpretation of serologic tests in an infant, reactive tests past 18 months of age are considered to reflect the status of the child. The decision may ultimately be based on maternal history and clinical judgment. In a young child, the possibility of sexual abuse should be considered as a cause of acquired rather than congenital syphilis, depending on the clinical picture. For reporting purposes, congenital syphilis includes cases of congenitally acquired syphilis among infants and children as well as syphilitic stillbirths.

Syphilitic Stillbirth (

Clinical Description

A fetal death that occurs after a 20-week gestation or in which the fetus weighs greater than 500 g and the mother had untreated or inadequately treated* syphilis at delivery.

*Adequate treatment is defined as completion of a penicillin-based regimen, in accordance with CDC treatment guidelines, appropriate for stage of infection, initiated 30 or more days before delivery.

Comments

For reporting purposes, congenital syphilis includes cases of congenitally acquired syphilis among infants and children as well as syphilitic stillbirths

Congenital Syphilis

Effective prevention and detection of congenital syphilis depends on the identification of syphilis in pregnant women and, therefore, on the routine serologic screening of pregnant women during the first prenatal visit. Additional testing at 28 weeks' gestation and again at delivery is warranted for women who are at increased risk or live in communities with increased prevalence of syphilis infection (442,450). Moreover, as part of the management of pregnant women who have syphilis, information concerning ongoing risk behaviors and treatment of sex partners should be obtained to assess the risk for reinfection. Routine screening of newborn sera or umbilical cord blood is not recommended, as diagnosis at this time does not prevent symptomatic congenital syphilis in some newborns. No mother or newborn infant should leave the hospital without maternal serologic status having been documented at least once during pregnancy, and preferably again at delivery if at risk.

Evaluation and Treatment of Neonates (Infants Aged <30 Days)

The diagnosis of congenital syphilis can be difficult, as maternal nontreponemal and treponemal IgG antibodies can be transferred through the placenta to the fetus, complicating the interpretation of reactive serologic tests for syphilis in neonates. Therefore, treatment decisions frequently must be made on the basis of 1) identification of syphilis in the mother; 2) adequacy of maternal treatment; 3) presence of clinical, laboratory, or radiographic evidence of syphilis in the neonate; and 4) comparison of maternal (at delivery) and neonatal nontreponemal serologic titers using the same test, preferably conducted by the same laboratory. Any neonate at risk for congenital syphilis should receive a full evaluation and testing for HIV infection.

All neonates born to mothers who have reactive nontreponemal and treponemal test results should be evaluated with a quantitative nontreponemal serologic test (RPR or VDRL) performed on the neonate's serum, because umbilical cord blood can become contaminated with maternal blood and yield a false-positive result, and Wharton's jelly within the umbilical cord can yield a false-negative result. Conducting a treponemal test (i.e., TP-PA, FTA-ABS, EIA, or CIA) on neonatal serum is not recommended because it is difficult to interpret. No commercially available immunoglobulin (IgM) test can be recommended.

All neonates born to women who have reactive serologic tests for syphilis should be examined thoroughly for evidence of congenital syphilis (e.g., nonimmune hydrops, jaundice, hepatosplenomegaly, rhinitis, skin rash, and pseudoparalysis of an extremity). Pathologic examination of the placenta or umbilical cord using specific staining (e.g., silver) or a *T. pallidum* PCR test using a CLIA-validated test should be considered; DFA-TP reagents are not available. Darkfield microscopic examination or PCR testing of suspicious lesions or body fluids (e.g., bullous rash and nasal discharge) also should be performed. In addition to these tests, for stillborn infants, skeletal survey demonstrating typical osseous lesions might aid in the diagnosis of congenital syphilis.

The following scenarios describe the congenital syphilis evaluation and treatment of neonates born to women who have reactive serologic tests for syphilis during pregnancy. Maternal history of infection with *T. pallidum* and treatment for syphilis must be considered when evaluating and treating the neonate for congenital syphilis in most scenarios, except when congenital syphilis is proven or highly probable (See <u>Scenario 1</u>).

Scenario 1: Proven or highly probable congenital syphilis

Any neonate with:

- 1. an abnormal physical examination that is consistent with congenital syphilis;
 - OR
- a serum quantitative nontreponemal serologic titer that is fourfold higher than the mother's titer;¹ OR
- 3. a positive darkfield test or PCR of lesions or body fluid(s).

¹ The absence of a fourfold or greater titer for a neonate does not exclude congenital syphilis.

Recommended Evaluation

- CSF analysis for VDRL, cell count, and protein **
- Complete blood count (CBC) and differential and platelet count

• Other tests as clinically indicated (e.g., long-bone radiographs, chest radiograph, liver-function tests, neuroimaging, ophthalmologic examination, and auditory brain stem response).

"CSF test results obtained during the neonatal period can be difficult to interpret; normal values differ by gestational age and are higher in preterm infants. Values as high as 25 white blood cells (WBCs) /mm3 and/or protein of 150 mg/dL might occur among normal neonates; lower values (i.e., 5 WBCs/mm3 and protein of 40 mg/dL) might be considered the upper limits of normal. Other causes of elevated values should be considered when an infant is being evaluated for congenital syphilis.

Recommended Regimens

- Aqueous crystalline penicillin G 100,000–150,000 units/kg/day, administered as 50,000 units/kg/dose IV every 12 hours during the first 7 days of life and every 8 hours thereafter for a total of 10 days OR
- **Procaine penicillin G** 50,000 units/kg/dose IM in a single daily dose for 10 days

If more than 1 day of therapy is missed, the entire course should be restarted. Data are insufficient regarding the use of other antimicrobial agents (e.g., ampicillin). When possible, a full 10-day course of penicillin is preferred, even if ampicillin was initially provided for possible sepsis. The use of agents other than penicillin requires close serologic follow-up to assess adequacy of therapy.

Scenario 2: Possible Congenital Syphilis

Any neonate who has a normal physical examination and a serum quantitative nontreponemal serologic titer equal to or less than fourfold the maternal titer and one of the following:

- mother was not treated, inadequately treated, or has no documentation of having received treatment; OR
- mother was treated with erythromycin or a regimen other than those recommended in these guidelines (i.e., a nonpenicillin G regimen);" OR

3. mother received recommended treatment <4 weeks before delivery.

⁺ A women treated with a regimen other than recommended in these guidelines should be considered untreated.

Recommended Evaluation

- CSF analysis for VDRL, cell count, and protein**
- CBC, differential, and platelet count
- Long-bone radiographs

A complete evaluation is not necessary if 10 days of parenteral therapy is administered, although such evaluations might be useful. For instance, a lumbar puncture might document CSF abnormalities that would prompt close follow-up. Other tests (e.g., CBC, platelet count, and bone radiographs) can be performed to further support a diagnosis of congenital syphilis.

"CSF test results obtained during the neonatal period can be difficult to interpret; normal values differ by gestational age and are higher in preterm infants. Values as high as 25 white blood cells (WBCs) /mm3 and/or protein of 150 mg/dL might occur among normal neonates; lower values (i.e., 5 WBCs/mm3 and protein of 40 mg/dL) might be considered the upper limits of normal. Other causes of elevated values should be considered when an infant is being evaluated for congenital syphilis.

Recommended Regimens

- Aqueous crystalline penicillin G 100,000–150,000 units/kg/day, administered as 50,000 units/kg/dose IV every 12 hours during the first 7 days of life and every 8 hours thereafter for a total of 10 days OR
- Procaine penicillin G 50,000 units/kg/dose IM in a single daily dose for 10 days
 - OR

• **Benzathine penicillin G** 50,000 units/kg/dose IM in a single dose Before using the single-dose benzathine penicillin G regimen, the complete evaluation (i.e., CSF examination, long-bone radiographs, and CBC with platelets) must be normal, and follow-up must be certain. If any part of the infant's evaluation is abnormal or not performed, if the CSF analysis is uninterpretable because of contamination with blood, or if follow-up is uncertain, a 10-day course of penicillin G is required. If the neonate's nontreponemal test is nonreactive and the provider determines that the mother's risk of untreated syphilis is low, treatment of the neonate with a single IM dose of benzathine penicillin G 50,000 units/kg for possible incubating syphilis can be considered without an evaluation.

Neonates born to mothers with untreated early syphilis at the time of delivery are at increased risk for congenital syphilis, and the 10-day course of penicillin G may be considered even if the complete evaluation is normal and follow-up is certain.

Scenario 3: Congenital Syphilis less likely

Any neonate who has a normal physical examination and a serum quantitative nontreponemal serologic titer equal to or less than fourfold the maternal titer and both of the following are true:

- mother was treated during pregnancy, treatment was appropriate for the stage of infection, and treatment was administered >4 weeks before delivery and
- 2. mother has no evidence of reinfection or relapse.

Recommended Evaluation

No evaluation is recommended.

Recommended Regimen

• **Benzathine penicillin G** 50,000 units/kg/dose IM in a single dose* *Another approach involves not treating the infant, but rather providing close serologic follow-up every 2-3 months for 6 months for infants whose mother's nontreponemal titers decreased at least fourfold after appropriate therapy for early syphilis or remained stable for low-titer, latent syphilis (e.g., VDRL <1:2; RPR <1:4).

Scenario 4: Congenital Syphilis unlikely

Any neonate who has a normal physical examination and a serum quantitative nontreponemal serologic titer equal to or less than fourfold the maternal titer and both of the following are true:

https://www.cdc.gov/std/tg2015/congenital.htm

- 1. mother's treatment was adequate before pregnancy and
- mother's nontreponemal serologic titer remained low and stable (i.e., serofast) before and during pregnancy and at delivery (VDRL <1:2; RPR <1:4).

Recommended Evaluation

No evaluation is recommended.

Recommended Regimen

No treatment is required, but infants with reactive nontreponemal tests should be followed serologically to ensure the nontreponemal test returns to negative (see <u>Follow-Up</u>). Benzathine penicillin G 50,000 units/kg as a single IM injection might be considered, particularly if follow-up is uncertain and the neonate has a reactive nontreponemal test.

Follow-Up

All neonates with reactive nontreponemal tests should receive careful follow-up examinations and serologic testing (i.e., a nontreponemal test) every 2-3 months until the test becomes nonreactive. In the neonate who was not treated because congenital syphilis was considered less likely or unlikely, nontreponemal antibody titers should decline by age 3 months and be nonreactive by age 6 months, indicating that the reactive test result was caused by passive transfer of maternal IgG antibody. At 6 months, if the nontreponemal test is nonreactive, no further evaluation or treatment is needed; if the nontreponemal test is still reactive, the infant is likely to be infected and should be treated. Treated neonates that exhibit persistent nontreponemal test titers by 6–12 months should be re-evaluated through CSF examination and managed in consultation with an expert. Retreatment with a 10-day course of a penicillin G regimen may be indicated. Neonates with a negative nontreponemal test at birth and whose mothers were seroreactive at delivery should be retested at 3 months to rule out serologically negative incubating congenital syphilis at the time of birth. Treponemal tests should not be used to evaluate treatment response because the results are qualitative and passive transfer of maternal IgG treponemal antibody might persist for at least 15 months.

Neonates whose initial CSF evaluations are abnormal should undergo a repeat lumbar puncture approximately every 6 months until the results are normal. A reactive CSF Venereal Disease Research Laboratory (VDRL) test or abnormal CSF indices that persist and cannot be attributed to other ongoing illness requires retreatment for possible neurosyphilis and should be managed in consultation with an expert.

Special Considerations

Penicillin Allergy

Infants and children who require treatment for congenital syphilis but who have a history of penicillin allergy or develop an allergic reaction presumed secondary to penicillin should be desensitized and then treated with penicillin (see <u>Management of Persons with a History of Penicillin Allergy</u>). Skin testing remains unavailable for infants and children because the procedure has not been standardized for this age group. Data are insufficient regarding the use of other antimicrobial agents (e.g., ceftriaxone) for congenital syphilis in infants and children. If a nonpenicillin G agent is used, close clinical, serologic, and CSF follow-up is required in consultation with an expert.

Penicillin Shortage

During periods when the availability of aqueous crystalline penicillin G is compromised, the following is recommended.

1. For neonates with clinical evidence of congenital syphilis (<u>Scenario 1</u>), check local sources for aqueous crystalline penicillin G (potassium or sodium). If IV penicillin G is limited, substitute some or all daily doses with procaine penicillin G (50,000 U/kg/dose IM a day in a single daily dose for 10 days).

If aqueous or procaine penicillin G is not available, ceftriaxone (in doses appropriate for birthweight) can be considered with careful clinical and serologic follow-up and in consultation with an expert, as evidence is insufficient to support the use of ceftriaxone for the treatment of congenital syphilis. Management might include a repeat CSF examination at age 6 months if the initial examination was abnormal. Ceftriaxone must be used with caution in infants with jaundice.

2. For neonates without any clinical evidence of congenital syphilis (<u>Scenario</u> <u>2</u> and <u>Scenario</u> <u>3</u>), use

a. procaine penicillin G, 50,000 U/kg/dose IM a day in a single dose for 10 days

or

b. benzathine penicillin G, 50,000 U/kg IM as a single dose.

If any part of the evaluation for congenital syphilis is abnormal or was not performed, CSF examination is not interpretable, or follow-up is uncertain, procaine penicillin G is recommended. A single dose of ceftriaxone is inadequate therapy.

3. For premature infants who have no clinical evidence of congenital syphilis (Scenario 2 and Scenario 3) and might not tolerate IM injections because of decreased muscle mass, IV ceftriaxone can be considered with careful clinical and serologic follow-up and in consultation with an expert. Ceftriaxone dosing must be adjusted according to birthweight.

HIV Infection

Evidence is insufficient to determine whether neonates who have congenital syphilis and HIV or whose mothers have HIV infection require different therapy or clinical management than is recommended for all neonates. All neonates with congenital syphilis and HIV infection should be managed similarly as neonates with congenital syphilis who do not have HIV infection.

Evaluation and Treatment of Infants and Children with Congenital Syphilis

Infants and children aged ≥1 month who are identified as having reactive serologic tests for syphilis should be examined thoroughly and have maternal serology and records reviewed to assess whether they have congenital or acquired syphilis (see <u>Primary and Secondary Syphilis and Latent Syphilis</u>, <u>Sexual Assault or Abuse of Children</u>). Any infant or child at risk for congenital syphilis should receive a full evaluation and testing for HIV infection.

Recommended Evaluation

- CSF analysis for VDRL, cell count, and protein
- CBC, differential, and platelet count

• Other tests as clinically indicated (e.g., long-bone radiographs, chest radiograph, liver function tests, abdominal ultrasound, ophthalmologic examination, neuroimaging, and auditory brain-stem response)

Recommended Regimen

• Aqueous crystalline penicillin G 200,000–300,000 units/kg/day IV, administered as 50,000 units/kg every 4–6 hours for 10 days If the infant or child has no clinical manifestations of congenital syphilis and the evaluation (including the CSF examination) is normal, treatment with up to 3 weekly doses of benzathine penicillin G, 50,000 U/kg IM can be considered. A single dose of benzathine penicillin G 50,000 units/kg IM up to the adult dose of 2.4 million units in a single dose can be considered after the 10-day course of IV aqueous penicillin to provide more comparable duration of treatment in those who have no clinical manifestations and normal CSF. All of the above treatment regimens also would be adequate for children who might have other treponemal infections.

Follow-Up

Careful follow-up examinations and serologic testing (i.e., a nontreponemal test) of infants and children treated for congenital syphilis after the neonatal period (30 days of age) should be performed every 3 months until the test becomes nonreactive or the titer has decreased fourfold. The serologic response after therapy might be slower for infants and children than neonates. If these titers increase at any point for more than 2 weeks or do not decrease fourfold after 12–18 months, the infant or child should be evaluated (e.g., through CSF examination), treated with a 10-day course of parenteral penicillin G, and managed in consultation with an expert. Treponemal tests should not be used to evaluate treatment response, because the results are qualitative and persist after treatment; further, passive transfer of maternal IgG treponemal antibody might persist for at least 15 months after delivery.

Infants or children whose initial CSF evaluations are abnormal should undergo a repeat lumbar puncture approximately every 6 months until the results are normal. After 2 years of follow-up, a reactive CSF VDRL test or abnormal CSF indices that persists and cannot be attributed to other ongoing illness requires

retreatment for possible neurosyphilis and should be managed in consultation with an expert.

Special Considerations

Penicillin Allergy

Infants and children who require treatment for congenital syphilis but who have a history of penicillin allergy or develop an allergic reaction presumed secondary to penicillin should be desensitized and treated with penicillin (see <u>Management of Persons with a History of Penicillin Allergy</u>). Skin testing remains unavailable for infants and children because the procedure has not been standardized for this age group. Data are insufficient regarding the use of other antimicrobial agents (e.g., ceftriaxone) for congenital syphilis in infants and children. If a nonpenicillin G agent is used, close clinical, serologic, and CSF follow-up is required in consultation with an expert.

Penicillin Shortage

During periods when the availability of penicillin G is compromised, management options are similar to options for the neonate (see <u>Evaluation and treatment</u> of infants during the first month of life).

1. For infants and children with clinical evidence of congenital syphilis, procaine penicillin G (50,000 U/kg/dose IM up to the adult dose of 2.4 million units a day in a single daily dose for 10 days) is recommended. A single dose of benzathine penicillin G 50,000 units/kg IM up to the adult dose of 2.4 million units in a single dose can be considered after the 10-day course of procaine penicillin. If procaine or benzathine penicillin G is not available, ceftriaxone (in doses appropriate for age and weight) can be considered with careful clinical and serologic follow-up. Infants and children receiving ceftriaxone should be managed in consultation with an expert, as evidence is insufficient to support the use of ceftriaxone for the treatment of congenital syphilis in infants or children. For infants aged \geq 30 days, use 75 mg/kg IV/IM of ceftriaxone a day in a single daily dose for 10–14 days (dose adjustment might be necessary based on current weight). For children, the dose should be 100 mg/kg of ceftriaxone a day in a single daily dose.

2. For infants and children without any clinical evidence of infection (see <u>Scenario</u> <u>2</u> and <u>Scenario</u> <u>3</u>), use

a. procaine penicillin G, 50,000 U/kg/dose IM a day in a single dose for 10 days

or

b. benzathine penicillin G, 50,000 U/kg IM as a single dose.

If any part of the evaluation for congenital syphilis is abnormal or not performed, CSF examination is not interpretable, or follow-up is uncertain, procaine penicillin G is recommended.

HIV Infection

Evidence is insufficient to determine whether infants and children who have congenital syphilis and HIV or whose mothers have HIV infection require different therapy or clinical management than is recommended for all infants and children. All infants and children with congenital syphilis and HIV infection should be managed like infants and children without HIV infection.



John Hellerstedt, M.D. Commissioner

Congenital Syphilis Health Advisory October 3, 2019

Summary

Reported syphilis cases are increasing nationally and in Texas.

- Reported congenital syphilis (CS) cases are also increasing.
- In Texas, 367 cases of CS were reported in 2018, which includes confirmed and probable (suspected) cases, as well as syphilitic stillbirths.

New state legislation was enacted on September 1, 2019 to increase syphilis testing in pregnant women. Testing is now mandated:

- At first prenatal care examination
- During third trimester (no earlier than 28 weeks gestation)
- At delivery

Texas healthcare providers are urged to:

- Screen all pregnant women for syphilis according to new testing requirements.
- Look for clinical signs/symptoms of syphilis in all patients.
- Treat patients with evidence of syphilis or recent exposure to syphilis on-site when possible. Document stage of syphilis and treatment administered.
- Report syphilis cases to your local or regional health department at the time of diagnosis. Include pregnancy status and treatment in the report.
- Test and evaluate newborns potentially exposed to syphilis *in utero*.
- Update electronic health record/electronic medical record systems to reflect new testing requirements.

Background

Syphilis cases have been increasing in men and women nationally, including women of childbearing age. Untreated syphilis during pregnancy can result in devastating health outcomes for the baby, including stillbirth or perinatal death, but congenital syphilis can be prevented by timely treatment of maternal syphilis.

In 2018, Texas saw increased cases of syphilis in women of childbearing age and of CS. In Texas, the number of CS cases increased 124% between 2017 (164 cases) and 2018 (367 cases). This is largest number of CS cases reported annually in Texas in more than 20 years and includes 352 probable cases, 2 confirmed cases, and 13 cases of syphilitic stillbirth.

New Legislation

As of September 1, 2019, Texas Health and Safety Code §81.090 mandates syphilis screening:

Congenital Syphilis Health Advisory October 3, 2019 2

- At first prenatal care examination
- During third trimester (no earlier than 28 weeks gestation)
- At delivery

This represents a change from previous testing requirements, which mandated syphilis testing two times during pregnancy: at the first prenatal care examination and again during the third trimester.

Recommendations for Healthcare Providers

Screen all pregnant women for syphilis at the first prenatal encounter, during the third trimester (no earlier than 28 weeks gestation), and at delivery.

Evaluate for clinical signs/symptoms and laboratory evidence of syphilis.

- (Signs/symptoms of syphilis are summarized in table 1 below.)
- Look for clinical manifestations of early syphilis, which include:
 - Chancre, which typically presents as a painless ulcer with raised margin and non-purulent base, often near the anus, genitalia, or mouth
 - Bilateral rash on palms/soles
 - Generalized body rash of any type, often on the trunk
 - Condyloma lata, presenting as large, raised, gray or white lesions on moist, warm areas of the body
- Order serologic tests for syphilis.
- Review syphilis test results in the context of the patient's prior syphilis testing and treatment. If documentation of prior treatment is not available, contact your local or regional health department for additional syphilis testing and treatment history.
- Consider consulting an infectious disease specialist for assistance interpreting results and determining appropriate treatment, if needed.
- Thoroughly evaluate all newborns potentially exposed to syphilis *in utero*.

Treat promptly pregnant women who are diagnosed with syphilis or exposed to syphilis over the last 90 days. (Recommended treatment is summarized in table 2 below.)

- Parenteral penicillin G is the only acceptable syphilis treatment for pregnant women. Intramuscular benzathine penicillin G is the recommended treatment for pregnant women with syphilis who do not have neurologic involvement.
 - Pregnant women with syphilis who report a penicillin allergy must be desensitized and then treated with parenteral penicillin G.
- The treatment regimen must be appropriate for stage of infection, as detailed in the Centers for Disease Control and Prevention 2105 Sexually Transmitted Disease (STD) Treatment Guidelines (<u>www.cdc.gov/std/tg2015/default.htm</u>).

- For patients with late latent syphilis, administer the three doses of benzathine penicillin G at one-week intervals. Pregnant women who miss any dose by greater than 14 days must repeat the full course.
- Repeat syphilis titers monthly to document adequacy of response to treatment. Because many patients will deliver before their serologic response to treatment can be adequately assessed, post-partum follow-up of both mother and newborn are critical.
- Screen for HIV in accordance with Texas Health and Safety Code §81.090.
 - Syphilis treatment recommendations are the same regardless of HIV status.
- Consider referral of patients to the local health department STD clinic for assistance with syphilis treatment.

Report promptly.

- Promptly notify your local or regional health department of syphilis (any stage) at the time of diagnosis. Include pregnancy status in the report.
 - **All** primary and secondary syphilis cases are required to be reported within 24-hours by telephone for public health follow-up.
 - All other syphilis cases and syphilis test results are required to be reported within seven days (within three days for laboratories).
 - To facilitate timely and adequate treatment for pregnant women, DSHS recommends reporting these syphilis diagnoses within 24 hours by telephone. For more information regarding reporting, please visit <u>www.dshs.state.tx.us/hivstd/healthcare/reporting.shtm</u>
- People known (or suspected) to be pregnant are given highest priority. Local or regional health departments will contact providers to gather clinical, testing, treatment, risk, and partner information.

Update your electronic health record (EHR)/electronic medical record (EMR).

• Review current EHR/EMR systems to ensure that automated laboratory test algorithms, as well as other prompts or flags, are updated to incorporate current testing requirements.

	Stage of Syphilis			
Signs and Symptoms	Primary	Secondary	Early latent	Unknown duration or late latent
Lesion(s) at site of exposure (chancre)	x			
Bilateral rash on palms and/or soles		x		
Generalized rash, often involving trunk		x		
Large, raised, grey or white lesions in warm, moist areas of body (condyloma lata)		x		
No active signs/symptoms but patient recalls above sign/symptom occurring within the past 12 months			х	
No active signs/symptoms and patient does not recall above sign/symptom within the past 12 months				x

Table 1. Summary of Signs and Symptoms of Syphilis by Stage of Infection

Table 2. Summary of Recommended Treatment Regimens for SyphilisCases Without Neurologic Involvement, per CDC Guidelines

	Benzathine Penicillin G		
Stage of Syphilis	2.4 million units IM as a single dose	7.2 million units IM, administered as 3 doses of 2.4 million units each at 1-week intervals	
Primary	Х		
Secondary	Х		
Early latent	Х		
Unknown duration or late latent		×	

Congenital Syphilis in Texas

What is Congenital Syphilis?

Women diagnosed with syphilis can pass the infection to their children during fetal development or at birth. Syphilis can cause miscarriage, stillbirth, or death shortly after delivery. According to the Centers for Disease Control and Prevention (CDC), up to 40 percent of babies born to women with untreated syphilis may be stillborn or die as a newborn.¹ Some infants with infection can appear healthy at birth, but develop life-altering complications later in life.

Congenital syphilis can present with a spectrum of serious manifestations, but can also occur without symptoms. Congenital syphilis is classified as "early" when the child exhibits symptoms at birth up to their second birthday, and "late" when symptoms start after age two. Early congenital syphilis can cause vision or hearing loss; non-viral hepatitis causing jaundice of the skin and eyes; long bone abnormalities; developmental delays; enlargement of the liver and/or spleen; inflammation of the mucus membranes of the nose; rash; wart-like lesions on the genitals; and additional symptoms. Older children may develop clinical symptoms of late congenital syphilis, including problems with bone and teeth development, hearing, vision, and the central nervous and cardiovascular systems.²

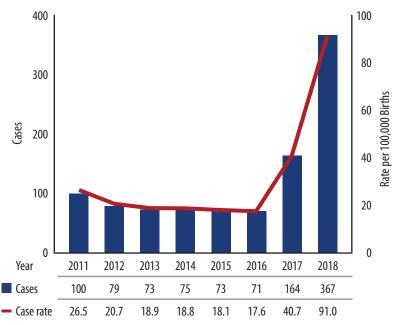
Is Congenital Syphilis a Problem in Texas?

Nationally, the congenital syphilis rate has been rising since 2013. Historically, Texas has reported high numbers of congenital syphilis compared to other states. In 2017, Texas reported the fourth highest rate of congenital syphilis cases in the nation.

In 2018:

- There were 367 cases of congenital syphilis reported to DSHS.
- The rate was 91.0 cases per 100,000 births.
- This represents a 124% increase relative to 2017, when 164 cases were reported at a rate of 40.7 cases per 100,000 live births.
- There were 50 counties that reported congenital syphilis cases.
- The top five reporting jurisdictions for Texas were Harris County (104), Bexar County (61), Dallas County (60), Region 11 (South Texas) (45), and Tarrant County (21).

Figure 1: Texas Congenital Syphilis Cases and Rates by Year of Diagnosis, 2011-2018



Congenital syphilis cases are more likely to occur when pregnant women with syphilis receive late prenatal care or no prenatal care at all. But with timely prenatal care, testing, and treatment, potentially devastating health outcomes for children can be averted.

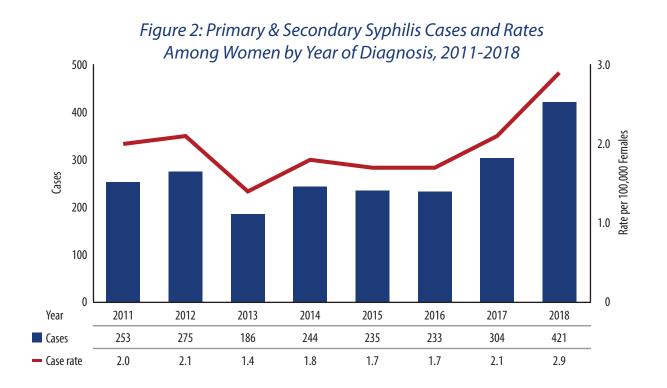
Syphilis Testing and the Law

<u>Texas Health and Safety Code Section 81.090</u> requires all pregnant women in Texas to be tested for syphilis at their **first prenatal visit**, during the **third trimester** of their pregnancy no earlier than 28 weeks gestation, and again at **delivery**. CDC recommends third trimester testing between 28 and 32 weeks gestation. It is important to discuss testing and treatment history with the individual being tested, because persons can still test positive after receiving treatment.

Syphilis in Women

Women with untreated or inadequately treated primary and secondary syphilis (symptomatic syphilis) during pregnancy are more likely to result in clinical congenital syphilis cases. Women with untreated or inadequately treated non-primary, non-secondary syphilis (early and unknown duration or late syphilis that occurs within one or more years after infection) still have a 23 percent chance of an adverse pregnancy outcome.³

In 2018, Texas reported 421 primary and secondary syphilis among women at a rate of 2.9 per 100,000 females. This represents a 38% increase relative to 2017, when 304 cases were reported at a rate of 2.1 cases per 100,000 females (Figure 2). Increased rates of syphilis in women has been associated with increased rates of congenital syphilis regardless of pregnancy status.⁴



Treatment for Syphilis

Pregnant women diagnosed with syphilis should seek treatment as early as possible to prevent serious health problems for their children. Long-acting penicillin therapy must be used to treat syphilis during pregnancy to prevent passing the infection to the baby.⁵ This therapy is extremely effective in preventing mother-to-child transmission, with a success rate of up to 98 percent.⁶ Pregnant women who are allergic to penicillin should see a specialist for desensitization to penicillin.⁷

Women diagnosed with unknown duration or late syphilis require three treatments of penicillin given one week apart; failure to complete this therapy appropriately will result in a reported congenital syphilis case. Additionally, the penicillin treatment regimen appropriate for the mother's stage of syphilis must be initiated at least 30 days prior to delivery to prevent a congenital syphilis case.

Whenever possible, physicians should treat their own patients instead of referring them to other providers to avoid losing patients to follow-up. Local health departments can also answer questions about treatment. Since syphilis can be passed between partners, it is also important to discuss the possibility of reinfection with syphilis if they have sex with an untreated partner. For infants with probable congenital syphilis or syphilis exposure, please refer to the treatment guidelines.

Reporting Syphilis

In Texas, syphilis is a reportable condition and all positive syphilis labs are required to be reported to DSHS in accordance with <u>Texas Administrative Code, Title 25, Part 1, Chapter 97, Subchapter F</u>. If a patient presents with symptoms of primary or secondary syphilis, reporting guidelines mandate reporting within 24 hours to the local health authority for public health follow-up. For additional information about reporting, please see the <u>DSHS</u> <u>disease reporting website</u> or consult with the local or regional health department.

* There are slight variations between the numbers reported in the CDC National Report and those reported in the Texas STD Surveillance Report. This is due to the use of different report dates contained within the data.

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- 2 Centers for Disease Control and Prevention, "Congenital Syphilis (Treponema pallidum) 2018 Case Definition." [Online]. Available: <u>www.cdc.</u> <u>gov/nndss/conditions/congenital-syphilis/case-definition/2018/</u> [Accessed August 28, 2019].
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- 7 Centers for Disease Control and Prevention, "2015 Sexually Transmitted Diseases Treatment Guidelines," June 2015. [Online]. Available: <u>www.cdc.</u> <u>gov/std/tg2015/</u> [Accessed August 28, 2019].

FAST FACTS Congenital Syphilis

Syphilis is curable.

Congenital syphilis is preventable.

Offer syphilis testing to your patients. Syphilis testing is legally required for pregnant women.

> Local reporting authorities www.dshs.texas.gov/hivstd/ reporting/regions

CDC STD Treatment guidelines for syphilis www.cdc.gov/std/tg2015/syphilis.htm

Special considerations for pregnant women with syphilis www.cdc.gov/std/tg2015/syphilispregnancy.htm

Congenital Syphilis treatment guidelines www.cdc.gov/std/tg2015/congenital.htm

DSHS TB/HIV/STD Section

(512) 533-3000 www.dshs.texas.gov/hivstd

> Publication No. 13-13593 (Rev. 8/19)



Fetal Infant Morbidity Review for Congenital Syphilis and Perinatal HIV

Texas Department of State Health Services HIV/STD Program

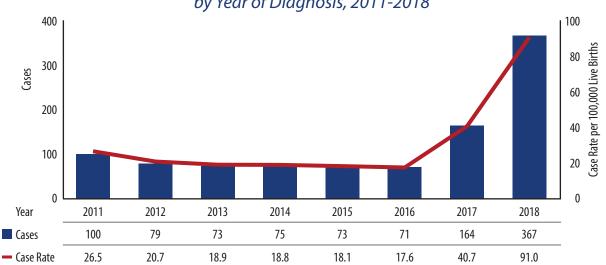
Background

Vertical transmission (also known as mother-to-child transmission) of HIV or syphilis can occur during a women's pregnancy and during delivery. Proper treatment of the mother can greatly reduce the chance of transmission.

Texas launched a pilot initiative in 2015 to investigate the missed opportunities that lead to transmission of syphilis and HIV. The goal is to use the findings to change health care systems to prevent future transmission. DSHS, Harris Health, and Baylor College of Medicine created the pilot of the Texas Fetal and Infant Morbidity Review of Syphilis and HIV (FIMRSH) to address the burden of both perinatal HIV and congenital syphilis starting in the Houston area.

When vertical transmission of syphilis occurs during pregnancy or delivery, this is called congenital syphilis. The congenital syphilis rate has been rising across the country since 2013. The number of cases of congenital syphilis in 2017 in the U.S. was the highest since 1997.¹ In 2018, 367 congenital syphilis cases were reported in Texas, a rate of 91.0 per 100,000 live births. This represents a 124% increase relative to 2017, when 164 cases were reported at a rate of 40.7 cases per 100,000 live births.²

Vertical transmission of HIV during pregnancy, delivery or breastfeeding is called perinatal HIV. Unlike congenital syphilis, perinatal HIV transmission has declined by more than 95% since the early 1990s in the U.S.³ Since 1999, over 7,000 infants were born to women living with HIV in Texas. From 2013 through 2017, there were 18 infants diagnosed with HIV in Texas.⁴ Although the number of infants diagnosed with HIV may seem small, they are representative of the many recurring missed opportunities to prevent perinatal transmission of HIV.⁵



Texas Congenital Syphilis Cases and Rates by Year of Diagnosis, 2011-2018

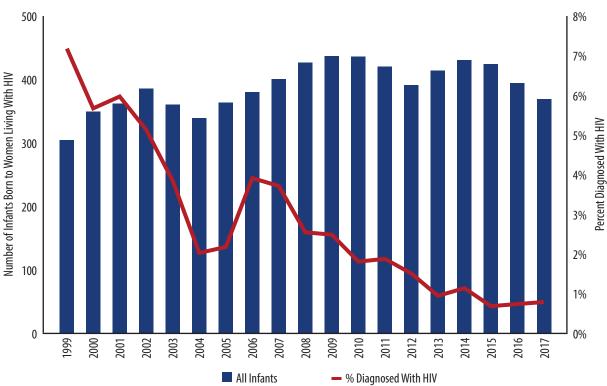
Methods⁶

The FIMRSH methodology involves several processes: data collection, case reviews, and community action with an overall goal to improve services for women, infants, and families.

The FIMRSH process begins by selecting cases for review. Priority is given to cases with potential gaps or barriers in services or systems issues. An in-depth medical record abstraction is done to gather data about these cases from multiple sources, including public health and medical records. Also critical to the process is an interview with the mother to learn from the woman's unique perspective.

The second step brings in the Case Review Team (CRT). The CRT includes community members and professionals from a wide range of public and private agencies that provide services for women, infants, and families. The CRT reviews cases quarterly to identify barriers to care and deficiencies in services the family did or did not receive. They then make recommendations for improvement.

The final step is the Community Action Team (CAT). The CAT consists of a diverse group of community leaders. They implement the CRT's recommendations by initiating system changes in the community, prioritizing interventions to improve service systems and resources.



Infants Born to Women living with HIV in Texas, 1999-2017

Findings and Action

CRT meetings have been held regularly in Houston since December 2015. The CRT has reviewed 48 cases (22 perinatal HIV, 20 congenital syphilis, and 6 dual diagnosis of HIV and syphilis) as of August 2019. The CRT identified several barriers:

- lack of HIV testing with other STD diagnoses,
- incomplete HIV testing per the diagnostic algorithm,
- incomplete linkage to HIV care services,
- lack of family planning services,
- insufficient housing and transportation support,
- insufficient treatment for substance use and mental illness, and
- lack of partner services follow up.

The first CAT meeting was held in January 2017. The CAT has addressed both specific caserelated items and larger community-related issues including:

- educating providers on the Texas testing laws for pregnant women,
- initiating testing policies for syphilis and HIV in local correctional facilities,
- improving timeliness of laboratory reporting, and
- increasing community awareness of available resources for:
 - persons living with HIV who are out of care or inadequately engaged in care,
 - persons experiencing domestic or intimate partner violence,
 - persons with substance use disorder
 - persons experiencing housing instability, and
 - persons needing free or low cost STD and HIV testing.

The Houston FIMRSH core team merged the CRT and CAT meetings in 2018 to allow recommendations to be made during the case review meetings.

FIMRSH Methodology



FIMR for congenital syphilis was established in San Antonio in 2018. The group has reviewed 12 cases as of August 2019.

FIMR congenital syphilis activities are planned for Dallas-Fort Worth and Public Health Region 11 (Rio Grande Valley) in 2020.

Conclusion

FIMRSH has made progress in addressing systems of care for women, infants, and families. A notable improvement is improved collaboration with laboratory services to improve access to labs within electronic medical records resulting in more successful linkage of pregnant women living with HIV to care. Other systems improvements include the addition of questions for perinatal HIV and congenital syphilis to the Annual Hospital Survey, improved communication with collaborators involved in post-incarceration linkage to care, increased provider education, supporting changes in Medicaid transportation rules to allow women to bring children with them to prenatal appointments, and collaboration with Medicaid and Ryan White providers.

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- 6. FIMR/HIV Prevention Methodology National Resource Center. 2015 FIMR/HIV Manual of Operations

RESOURCES FOR FIMR

FIMR-HIV www.fimrhiv.org

Texas TRAIN Courses

Implementing Routine HIV Testing in Texas Perinatal HIV Prevention 2014 Update

Perinatal HIV Hotline

nccc.ucsf.edu/clinician-consultation/ perinatal-hiv-aids/ Call for a Phone Consultation 24 hours, Seven days a week: 1-888-448-8765

2015 Sexually Transmitted Diseases Treatment Guidelines www.cdc.gov/std/tg2015/syphilis.htm

HIV, Syphilis and HBV Testing and Pregnancy: State Requirements for Texas Clinicians www.dshs.texas.gov/hivstd/info/

edmat.shtm

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DSHS TB/HIV/STD Section

(512) 533-3000 www.dshs.texas.gov/hivstd

> Publication No. 13-15261 (Rev. 9/2019)



HIV, Syphilis and HBV Testing and Pregnancy: State Requirements for Texas Clinicians

Texas law (Texas Health and Safety Code § 81.090) requires physicians or others permitted by law to attend a woman during pregnancy or at delivery to test her for human immunodeficiency virus (HIV), syphilis, and hepatitis B virus (HBV). She must be tested for HIV, syphilis, and HBV at her first prenatal visit. She must be tested for HIV and syphilis during the third trimester, at 28 weeks or later. She must also be tested for syphilis and HBV at delivery as well as HIV if there is no record of HIV testing during third trimester. Expedited HIV testing of infants at delivery is also required if a mother's results are undetermined.

Time of Test	Perinatal Tests Required by Texas Law
First Prenatal Visit	• HIV, HBV, and syphilis test required
Third Trimester	 HIV test required Syphilis test required at 28 weeks or later¹
Delivery	 Expedited HIV test required if no third trimester result² Syphilis test required HBV test required
Newborn Tests	• Expedited HIV test ² required if no record of third trimester or delivery result

1 CDC recommends testing between weeks 28 and 32. Treatment should begin 30 days before delivery for optimal results.

2 Expedited test. Test must be expedited and result obtained < 6 hours. For newborn test, blood must be drawn < 2 hours after birth.

Pregnancy Stage	Additional Recommended Perinatal Tests and Precautions ¹
First Prenatal Visit	 Chlamydia and gonorrhea screening for women under 25 years and older women at increased risk² Retest 3-4 weeks after treatment for chlamydia
Third Trimester	 Chlamydia test for women under 25 years and older women at increased risk² Gonorrhea test for women at increased risk²
Newborn Vaccinations and Precautions	 First of three HBV vaccinations is given Required prophylaxis to prevent ophthalmia neonatorum (conjunctivitis sometimes caused by gonorrhea or chlamydia bacteria) Evaluation of the infant exposed to syphilis as recommended by the <u>Centers for Disease Control and Prevention (CDC) Treatment Guidelines³</u>

1 Recommendations from the CDC and the American College of Obstetricians and Gynecology (ACOG).

2 Increased risk means new or multiple sex partners, sex partner with concurrent partners, or sex partners who have an STD.

3 Born to mothers with reactive non-treponemal/treponemal labs: Quantitative nontreponemal serologic test (RPR or VDRL) performed on the neonate's serum.

Why test pregnant women?

Testing and treatment for HIV, syphilis, and HBV prevents infected infants. Left untested and untreated, a mother with HIV has about a 25 percent chance of transmitting HIV to her unborn child. When pregnant women with HIV are diagnosed and provided with appropriate care and treatment, including treatment for the newborn, the HIV transmission rate can be reduced to 2 percent or less. Even when medicine is not started until labor and delivery, transmission rates are reduced to 10 percent.

Therapy includes antiretroviral medicine as well as cesarean delivery for women with high HIV viral loads (>1,000 copies/ml). Testing and treatment also decreases rates of syphilis and HBV infection. Perinatal syphilis screening allowed Texas clinicians to identify 367 cases of congenital syphilis in 2018, enabling them to provide treatment and follow up. For infants born to women with infectious HBV, 70-95 percent will not be infected if they receive HBV vaccine and treatment within

12 hours of delivery.



Consent and Information Distribution

Before testing a patient for HIV, syphilis, or HBV, the clinician must inform the woman that the tests will be performed unless she objects (HIV only). Separate consent forms are not required and verbal notification is acceptable. Most women give consent to be tested.

If a woman objects, the clinician should refer her to an anonymous HIV testing site. In addition to the referral, the clinician can discuss testing with the patient. Women refuse testing for different reasons. Listen to the patient and provide information about risk factors, advantages of testing, ease of testing, and HIV-related resources if the result is positive. A clinician cannot test a woman for HIV without consent. Medical records should reflect that the test was explained to the patient and she consented.

All women, regardless of consent, must receive printed materials about HIV, syphilis, and HBV. Materials must include information about disease transmission and prevention, frequency, infection consequences for the child, and available treatment. When possible, material should be provided in a language and literacy level patients understand.

Appropriate materials are available in English and Spanish from the Texas Department of State Health Services (DSHS). Medical records should also note the patient received printed materials.

Positive HIV Test Results

If a woman receives a preliminary positive HIV result for an expedited test at labor and delivery, CDC and ACOG recommend starting prophylaxis treatment for the woman and her infant. When a pregnant woman has HIV, syphilis, or HBV, the clinician must provide diseasespecific treatment information she can understand. The clinician may also refer her to another clinic for appropriate treatment.

Clinicians must provide the opportunity for individual, face-to-face counseling to each pregnant woman with a positive HIV test result immediately upon revealing her test results.

Post-test HIV counseling must include the:

- Meaning of the test result;
- Possible need for additional testing;
- Measures to prevent transmission of HIV;
- Benefits of partner notification;
- Availability of confidential partner notification services through local public health departments; and
- Availability of health care services, including mental health social and support services, in the area where the patient lives (refer patients to 211).

Post-test HIV counseling should:

- Increase understanding of HIV infection;
- Explain potential need for confirmatory testing;
- Explain ways to change behavior to prevent HIV transmission;
- Encourage the patient to seek appropriate medical care; and
- Encourage the patient to notify her sex or needle-sharing partners or access partner notification services.

For more information, additional resources and a list of free patient education materials, please visit <u>www.dshs.texas.gov/hivstd/info/pregnancy.shtm</u>.

Perinatal Hotline

Call 888-448-8765 for free 24-hour clinical consultation and advice on treating HIV-infected pregnant women and their infants as well as indications and interpretations of rapid and standard HIV testing in pregnancy.

Records Retention

Clinicians must retain a report of each client case for nine months and deliver the report to any successor in the case.

Confidential Test

A confidential test means the test result is in the medical record.

Anonymous Test

An anonymous test means that the patient's name is not used.

Visit gettested.cdc.gov to find an HIV or STD testing site.

Call 211 or (800) CDCINFO

to find an HIV/AIDS service provider in Texas or locate other patient resources.

Texas HIV Medication Program Refer patients unable to pay for HIV medications to (800) 255-1090.

DSHS HIV/STD Program

(512) 533-3000 www.dshs.texas.gov/hivstd

Publication No. 13-13263 (Rev. 8/19)

