

NC Department of Health and Human Services

Congenital Syphilis: Partnerships and Initiative to Address a Public Health Crisis

North Carolina Division of Public Health Communicable Disease Branch

April 2024

Acknowledgements

NCDPH:

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Congenital Syphilis: The Basics

What is congenital syphilis?

- Syphilis transmitted from pregnant parent to baby during pregnancy or delivery
- It can lead to
 - Miscarriage
 - Issues with placenta and umbilical cord
 - Stillbirth
 - Low birth weight
 - Severe and life-long birth defects
 - Premature birth
 - Neonatal death



Congenital syphilis is preventable

Return

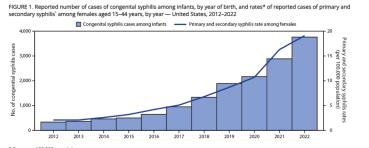
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A national crisis has been declared

The New York Times

Infants Are Born With Syphilis in Growing Numbers, a Sign of a Wider Epidemic

Congenital syphilis has become more than ten times as common over the past decade, the C.D.C. reported. "The situation is dire," said one expert.

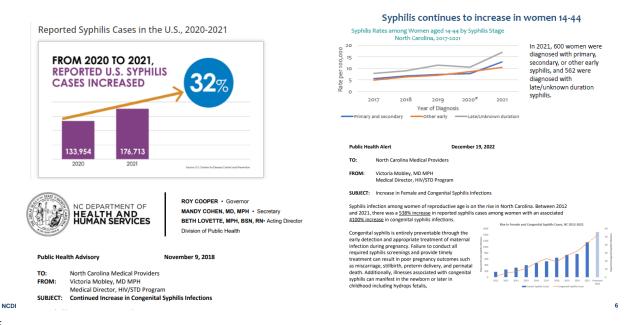


* Cases per 100.000 population

¹ Primary and secondary syphilis case data for all U.S. territories and freely associated states and outlying areas were not available for all years; therefore, rates presented include only the 50 states and the District of Columbia.

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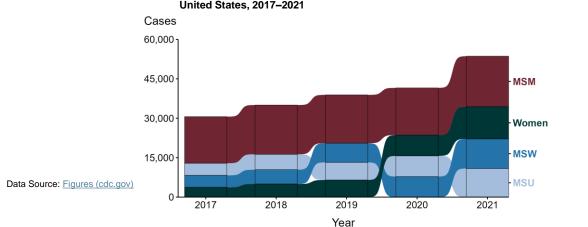
In fact it's been growing for a while



How about you? Are people aware of this issue in your county? Do you feel like this is something you can prioritize, given other challenges?

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Syphilis patterns are changing

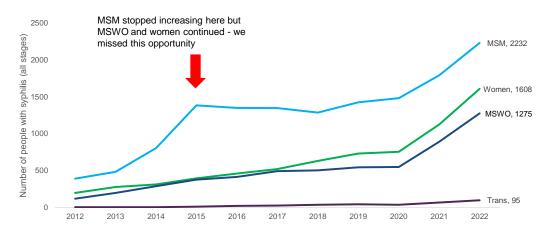


Primary and Secondary Syphilis — Reported Cases by Sex and Sex of Sex Partners, United States, 2017–2021

ACRONYMS: MSM = Gay, bisexual, and other men who have sex with men; MSU = Men with unknown sex of sex partners; MSW = Men who have sex with women only NCDHHS, Division | Syphilis in North Carolina | March 14, 2024

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Syphilis by Gender and Partner Gender North Carolina, 2023 Preliminary Data

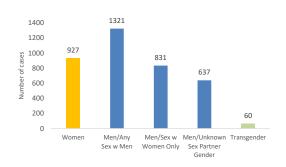


Not shown: Men with unknown partner gender (23% of total men)

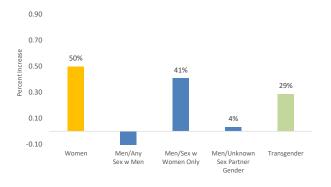
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Syphilis is most common among men, but increasing fastest among women, during 2023 (preliminary data)



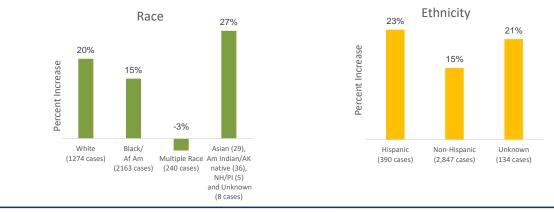
Early Syphilis by Gender and Partner Gender North Carolina, 2023 Increase in Early Syphilis by Gender and Partner Gender North Carolina, 2023 Compared to 2020-2022 Average



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Syphilis is increasing in many North Carolina populations

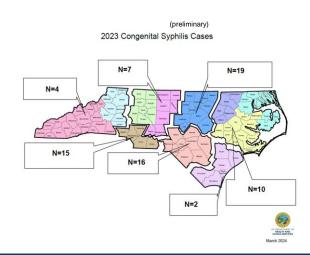
Increase in Early Syphilis by Race/Ethnicity North Carolina, 2023 (preliminary) Compared to 2020-2022 Average



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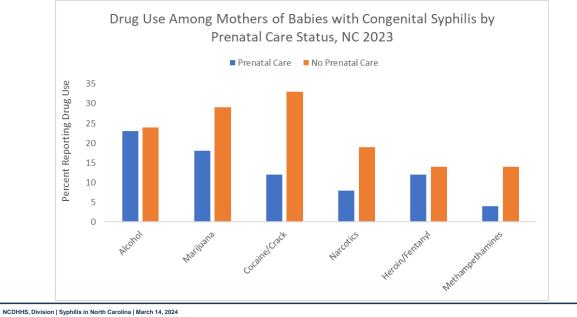
Congenital syphilis is experienced across North Carolina



Contributing Factors in 2023:

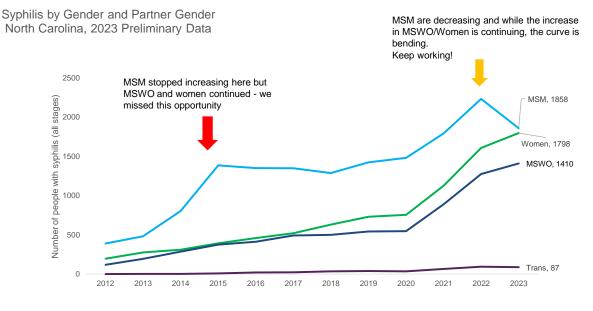
- 90% of CS mothers were asymptomatic at time of diagnosis
- 30% of women with babies with congenital syphilis had no prenatal care
- Of women who accessed prenatal care; 55% started prenatal care late (in the 2nd or 3rd trimester).
- Reported substance use is associated with lack of prenatal care

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Substance Use and Prenatal care

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Not shown: Men with unknown partner gender (23% of total men)

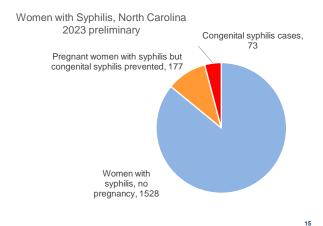
Congenital syphilis is preventable

Women should be tested three times during pregnancy

1st Prenatal Care Visit 28-30 weeks gestation

n Delivery

By testing and treating, we prevented 71% of congenital syphilis cases in 2023



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Our approach

- · Know what's going on and understand barriers
 - · Quarterly case review
 - · Calls with affected people
 - · Conversation with providers
- Make sure people know what's happening and what to do
 - Public health alert to NC clinicians November 9, 2023
 - New provider webpage with resources
 - Social and traditional media campaign (*December 2023 June 2024*)
- · Expand access to syphilis point of care testing
 - · Engaging clinics, CBOs, SSPs, other safety net venues
- Use payer infrastructure to improve access to syphilis care
- Hosted SE Congenital Syphilis Payer Summit October 17, 2023
 https://www.dph.ncdhhs.gov/epidemiology/communicable-disease/syphilis/congenital-syphilis-provider-resources

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HERE'S HOW YOU CAN DO YOUR PART! • Complete a secual health history for all your patients. • Test all programs vormes for spylinia the first prenaral visit, between 28-30 weeks gestation, AND at delivery. • Treat patients with spylinii immediately. • Known comd delivery spyliniis are catulata before the newborn goes home. • Immediately report systhilis are catulata before the newborn to **Public Health**.

4/15/2024

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Is there something else we should be doing?

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Congenital Syphilis: Legal Issues

Working with Providers

- Syphilis can be diagnosed by many different providers
- Public health rule is enforceable for prenatal care providers
- We want ED providers and other non-prenatal care providers to know that they are also responsible for testing
 - Maybe not enforceable but worth talking about

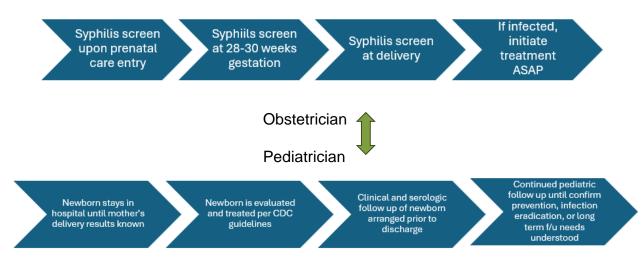
10 interviews with CS moms:

During this pregnancy, other than a prenatal care provider, where else did you go for any health care you needed? (check all that apply)



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Provider Journey



Prior to delivery

• 10A NCAC 41A .0204 includes sexually transmitted disease control measures

(e) All pregnant women shall be tested for syphilis, chlamydia and gonorrhea at the first prenatal visit. All pregnant women shall be tested for syphilis between 28 and 30 weeks of gestation and at delivery.

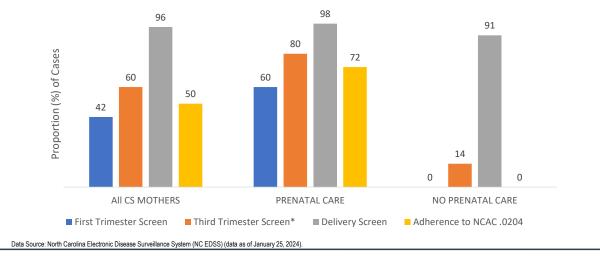
Pregnant women 25 years of age and younger shall be tested for chlamydia and gonorrhea in the third trimester or at delivery if the woman was not tested in the third trimester.



1st Prenatal Care Visit 28-30 weeks gestation Delivery

At delivery

- Hospitals shall determine the syphilis serologic status of the mother prior to discharge of the newborn so that if necessary the newborn can be evaluated and treated as provided in 10A NCAC 41A .0204(c)(2).
- 10A NCAC 41A .0204(f) Any woman who delivers a stillborn infant shall be tested for syphilis.



Syphilis Screening of CS Mothers During Pregnancy by Prenatal Care Status, NC 2023

Why doesn't complete testing happen? Providers

Syphilis is rare

Focused on other testing and miss STIs Testing recommendations are not uniform, and some recommend risk-based testing Test once and trust a negative result

Entering prenatal care late makes it harder In 2023, 14% of pregnant persons receiving prenatal care were not tested for syphilis at the first prenatal visit Of people whose first prenatal visit wasn't until the

third trimester, 50% were not tested



Why doesn't complete testing happen? Pregnant people

- Pregnant person refuses testing or (more likely) just doesn't get the test done
 - Separate testing sites can be a barrier
 - Many providers don't stock bicillin so the parent has to go elsewhere
 - Does the person have support for accessing the testing or treatment?
- Parents who refuse testing of babies
 - Does the woman have support for baby testing and treatment?



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Partners

Women can get reinfected during pregnancy

Persons infected with, exposed to, or reasonably suspected of being infected with syphilis, lymphogranuloma venereum, granuloma, and chancroid shall: (1) Refrain from sexual intercourse until examined and diagnosed and treatment is completed, and all lesions are healed; (2) Be tested, treated, and re-evaluated in accordance with the STD Treatment Guidelines published by the U.S. Public Health Service. 10A NCAC 41A .0204(b).

What to do??

• Options

Non-legal

- Prevent with education
- · Letter to provider

Legal

- LHD Director issues an order to comply with control measures
- Get a judge to order compliance (civil) (G.S. 130A-18)
- Charge provider with misdemeanor via DA (G.S. 130A-25)
- Report physician to medical board for failures related to practice standards

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Using Identified Cases to Engage Providers

Ensure providers are aware of NC Public Health Code requiring testing 3x during pregnancy

Consider a formal letter from your LHD ± DHHS to all providers in jurisdiction (quarterly?) with CS update

Letter can be co-signed by NC DPH and LHD



ROY COOPER - Governor KODY H. KINSLEY - Secretary MARK BENTON - Deputy Secretary for Health SUSAN KANSAGRA MD, MBA - Assistant Secretary for Public Health Division of Public Health

Dear Provider,

The North Carolina Department of Health and Human Services, Division of Public Health (NC DHHS/DPH) has recently identified a pregnant person who delivered a newborn with congenital syphilis in your region.

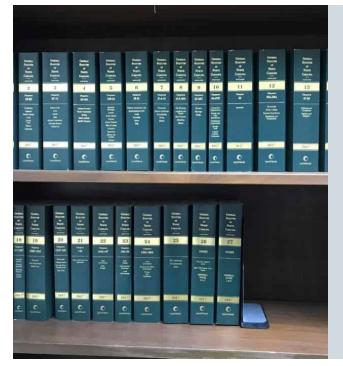
Over the last decade, North Carolina has experienced a 9-fold increase in reported syphilis infections among women and a 72-fold increase in reported congenital syphilis infections. In an effort to raise awareness, NC DHHS/DPH is sending a courtesy notice to all health care providers who provide clinical services to persons of reproductive age in your jurisdiction. Please consider using this case as an opportunity to review syphilis incidence, diagnosis, and treatment with your team.

As a reminder, North Carolina requires all pregnant persons to be screened for syphilis at least 3 times in pregnancy <u>10A NCAC 41A.0204.pdf (state.nc.us)</u>:

- At the first prenatal care visit, AND
- Between 28-30 weeks gestation, AND
- At Delivery

Pregnant persons with suspected or confirmed syphilis should be initiated on treatment as soon as possible. Penicillin G is the only known effective antimicrobial for the treatment of fetal infection and the prevention of congenital syphilis. The appropriate treatment of syphilis during nreanancy depends on the stage of infection.

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Communicable Disease Law: Application to Congenital Syphilis

Laws establishing control measures

NORTH CAROLINA GENERAL STATUTES (G.S.)	NORTH CAROLINA ADMINISTRATIVE CODE (N.C.A.C.)
G.S. 130A-144(g) authorizes the Commission for Public Health to adopt rules prescribing communicable disease control measures	 10A NCAC 41A. 0204 establishes control measures for sexually transmitted infections Subpart (c): general control measures for syphilis, including general testing and treatment requirements Subpart (e): testing requirements for syphilis during pregnancy and at birth Subpart (f): testing for syphilis in the case of stillbirth

Requirement to comply with control measure rules

All persons must comply with communicable disease control measures established by the Commission for Public Health

° G.S. 130A-144(f)

Law provides methods for enforcing rules when a person fails to comply

- ° G.S. 130A-25 (criminal)
- ° G.S. 130A-18 (civil)

Steps to take before pursuing enforcement

- Educate, persuade
- $^{\circ}$ Health director may issue an order directing the person to comply

Ordering compliance with control measures

Health director order to comply with communicable disease control measures

 Provides written notice & evidence that person was informed of control measures and their legal duty to comply

Isolation order (G.S. 130A-145)

- Under NC law, "isolation authority" means the authority to issue an order limiting the freedom of movement <u>or freedom of action</u> of a person known or reasonably suspected of being infected with a communicable disease.
- If used, must be limited to ordering compliance with the established control measures. 10A NCAC 41A .0201(d).
- $^\circ$ For syphilis, the control measures do <u>not</u> include physical isolation.

Enforcing communicable disease laws: Available public health remedies

Injunction (G.S. 130A-18)

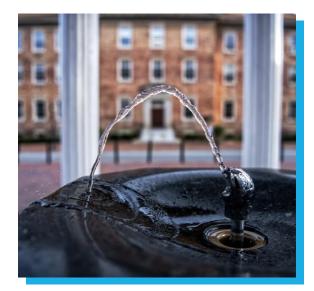
• A type of civil action that can be used to compel someone to comply with NC communicable disease laws & rules

Misdemeanor (G.S. 130A-25)

- A criminal misdemeanor charge can be brought against a person who fails to comply with NC communicable disease laws & rules
- If convicted, person may be sentenced for up to 2 years

CONTACT INFORMATION

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UNC SCHOOL OF GOVERNMENT

Available materials





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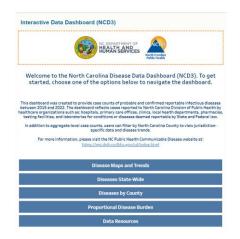
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Contact

Annual data available on our dashboard:

Search NC Communicable Disease Facts and Figures

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