



Leveraging Tribal Strengths in Response to the Syphilis Epidemic in the Great Plains Area

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Master of Public Health

Infectious Disease and Zoonoses

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About Me



Salina, KS to Rapid City, SD



Kansas State University:

B.S. Human Health Biology and Minor in Psychology

May 2023

University of Colorado Anschutz:

Certificate in American Indian/Alaska Native Health

Expected Completion in May 2027



Great Plains Tribal Epidemiology Center

Epidemiology and Disease Prevention Program Manager

February 2026 - Current

Tribal Disease Intervention Specialist Trainer

November 2024 – February 2026

Outline



Background

- Great Plains Tribal Epidemiology Center
- Healthcare in Indian Country
- American Indian and Alaska Native Barriers to Care
- Syphilis Overview
- Syphilis in South Dakota and Indian Country
- Who are Disease Intervention Specialists

Learning Objectives and Products

- GPTEC TDIS Certification Student Manual Module 2: STI Basics
- Medicine Bag Health Education

Next Steps

Competencies

- Synthesis and Integration of Competencies
- Attainment of Competencies

Acknowledgements

Questions

Terms

AI/AN: American Indian/Alaska Native

DIS: Disease Intervention Specialist

STI: Sexually Transmitted Infections

Relatives: Patient/Client

IHS: Indian Health Service

Indian Country: Encompassing term referring to the
holistic landscape of AI/AN service areas

GPTEC: Great Plains Tribal Epidemiology Center

Great Plains Tribal Epidemiology Center



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EPIDEMIOLOGY CENTER**



Rapid City, SD



17 Tribal Nations and 1 service area in Iowa,
Nebraska, North Dakota, South Dakota



John Godoy, MPH (Preceptor)

Tribal Disease Intervention Center
Program Manager

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Sr. Director of GPTEC



09/20/2025 – 11/07/2025

Tribal Disease Intervention Training Center



GREAT PLAINS TRIBAL HEALTH

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Health Care in Indian Country



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Health Care in Indian Country

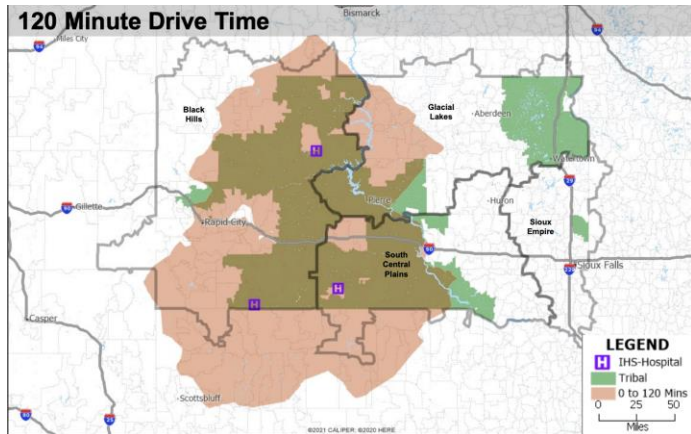


Legislation and Reports of Note:

- Treaties between Sovereign Tribal Nations and the United States Government
- Trust Relationship (Cherokee Nation v. Georgia, 30 U.S. 1 (1831))
- The Act of November 2, 1921 (Snyder Act)
- The Problem of Indian Administration Report of 1928 (Meriam Report)
- Indian Health Transfer Act of 1954
- Indian Self-Determination and Education Assistance Act of 1975
- Indian Healthcare Improvement Act of 1976
 - 1992 Amendment

American Indian/Alaska Native Barriers to Care

Access to Care



Note. From South Dakota Department of Health. (2024a). *Data Analysis Summary: Strategic Analysis of South Dakota's Rural Healthcare Programs*. https://doh.sd.gov/media/qo4j0sgp/strategic-analysis-sd-rural-healthcare-programs_data-analysis-summary.pdf

Tribal Lands:

10.3 Federally Qualified Health Centers (FQHCs)/Rural Health Clinics (RHCs) per 100,000 square miles

Very Rural Communities:

57.2 FQHCs/RHCs per 100,000 square miles

American Indian/Alaska Native Barriers to Care

Trust in Federal Health Care

For the sterilization procedures we reviewed in detail, we found consent forms in the medical files. However, as of September 1975, the Aberdeen, Albuquerque, Oklahoma City, and Phoenix areas were generally not in compliance with the Indian Health Service regulations. Several different consent forms were used. The most widely used form did not (1) indicate that the basic elements of informed consent had been presented orally to the patient, (2) contain written summaries of the oral presentation, and (3) contain a statement at the top of the form notifying subjects of their right to withdraw consent. One consent form document did meet the Indian Health Service requirements, but when used was filled out incorrectly.

Note. From Comptroller General of the United States. (1976). *Investigation of Allegations Concerning Indian Health Service (HRD-77-3)*. U.S Government Accountability Office.
<https://www.gao.gov/assets/hrd-77-3.pdf>

American Indian/Alaska Native Barriers to Care

Trust in Federal Health Care



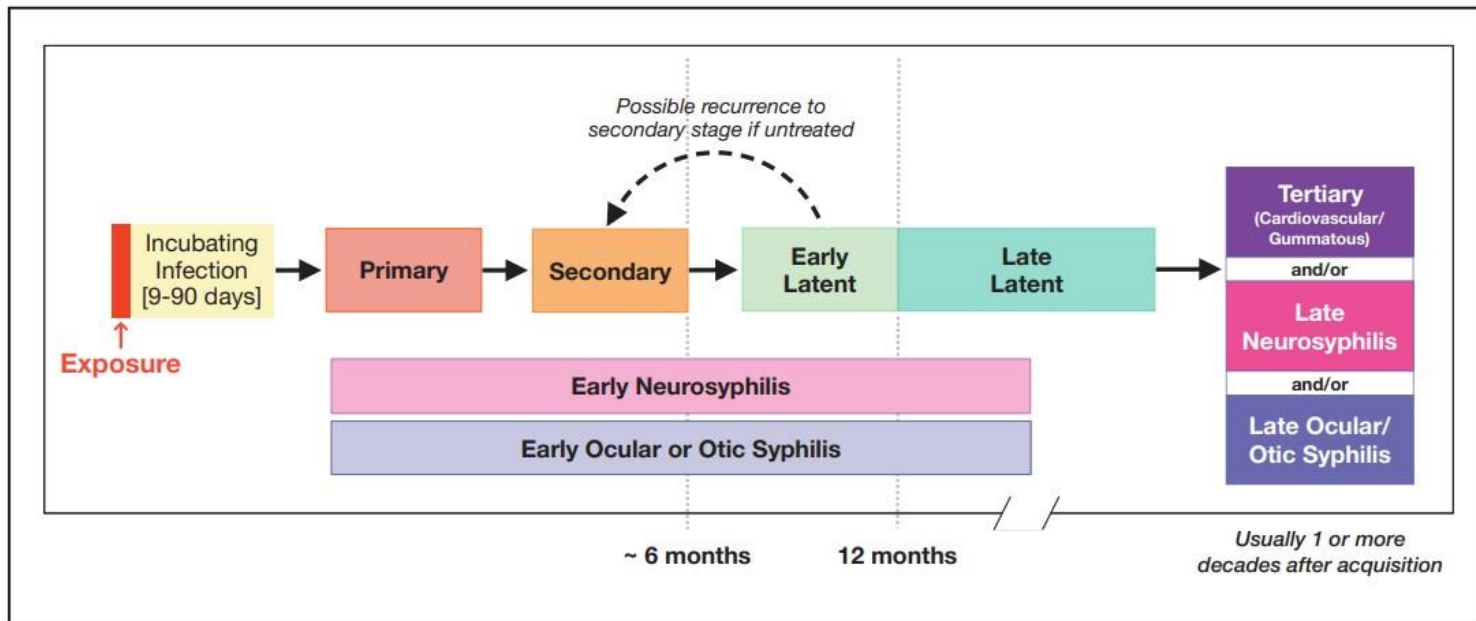
In 2017 four of the nine GPA IHS facilities were “out of compliance with the minimum standards required to participate in the Medicare and Medicaid programs”.

American Indian/Alaska Native Barriers to Care

Competing Needs



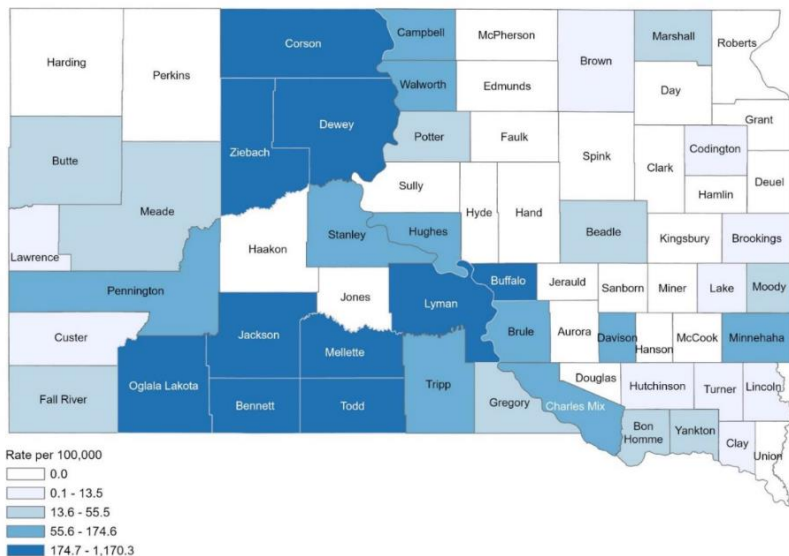
Syphilis Overview



Note. From NYC Department of Health and Mental Hygiene, and the NYC STD Prevention Training Center. [The Diagnosis and Management of Syphilis: An Update and Review](#). March 2019.

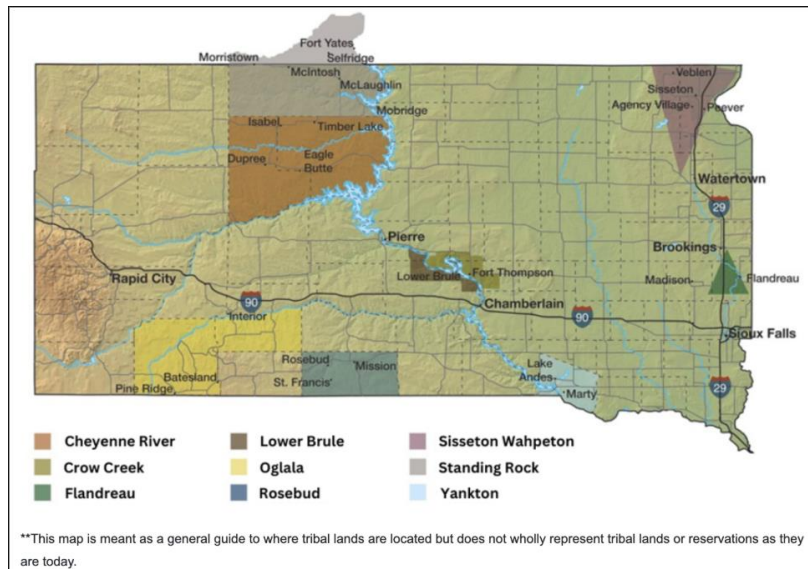
Syphilis in South Dakota and Indian Country

January to June 2024 Rates of Early Syphilis in South Dakota



Note. From *Early Syphilis*. South Dakota Department of Health. (2025). Reducing an Unprecedented Rise in Syphilis Rates by Enhanced Screening and Testing. <https://doh.sd.gov/media/i2thr1nj/healthcare-guidance-document-622025-all-stages.pdf>

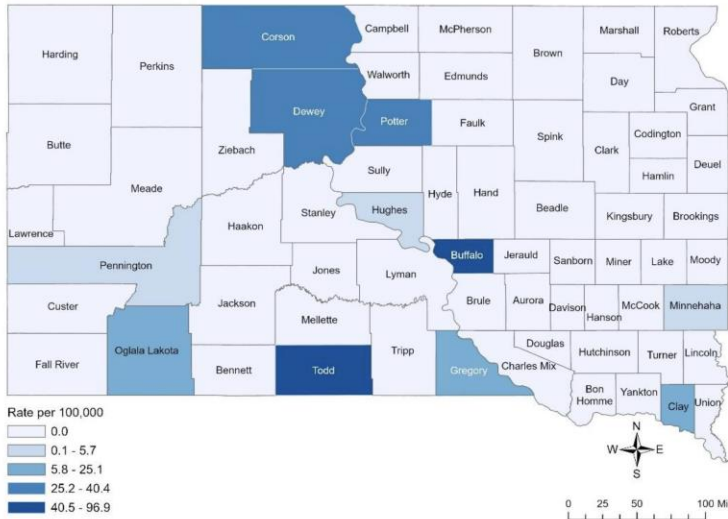
Tribal Lands in South Dakota



Note. South Dakota Department of Tribal Relations (n.d.) The Tribes of South Dakota. <https://sdtribalrelations.sd.gov/tribes/nine-tribes.aspx>

Country

January to June 2024 Rates of Congenital Syphilis in South Dakota



Note. From Congenital Syphilis Rates by County, EDSS, SD, January-July 2023. South Dakota Department of Health. (2024). American Indian Health Data Book Full Report.
https://doh.sd.gov/media/htxbhvmu/american-indian-health-data-book_2024.pdf

Tribal Lands in South Dakota



**This map is meant as a general guide to where tribal lands are located but does not wholly represent tribal lands or reservations as they are today.

Note. South Dakota Department of Tribal Relations (n.d.) The Tribes of South Dakota.
<https://sdtribalrelations.sd.gov/tribes/nine-tribes.aspx>

Who are Disease Intervention Specialist

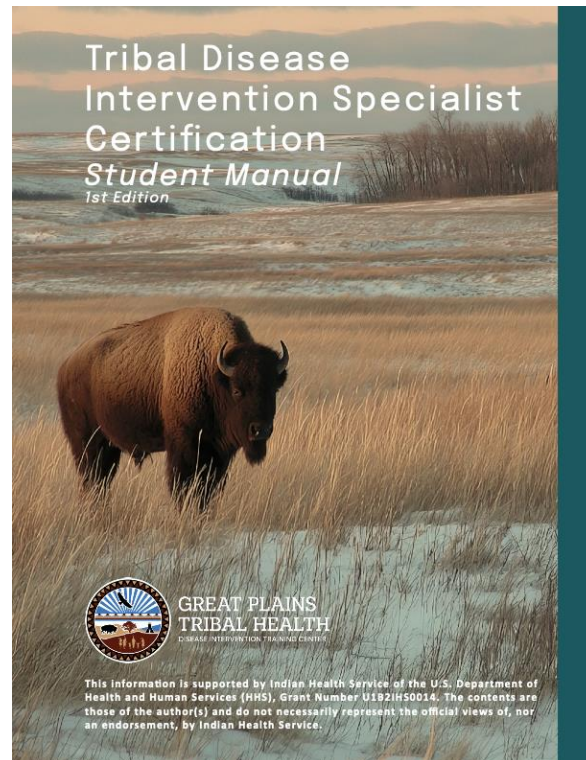


National Board of Public Health
Examiners defines DIS as:

A disease intervention professional is primarily a non-licensed public health professional with **applied expertise in preventing the spread of infectious disease at the community level.**

Learning Objectives and Products

Objective 1. I will produce the GPTEC TDIS Certification Student Manual - Module 2: STI Basics by 11/07/2025 to improve my ability to create tailored trainings to strengthen the health of a community by building tribal public health workforce capacity.



Learning Objectives and Products

To provide services to Relatives DIS should become familiar and comfortable with words used to discuss STIs, have a general understanding of what they are, how they are passed from one person to another, and how they can be prevented.



When talking to a Relative...

It can be helpful to describe what are included in the in the reproductive system.



When talking to a Relative...

It is important to describe the body in ways that the Relative will understand. Consider calling the urethra "the tube that carries urine from the bladder out of the body".

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Module 2: Sexually Transmitted Infection Basics

If it's not treated, gonorrhea can lead to:

- For individuals with a uterus: pelvic inflammatory disease (PID), which can damage the **reproductive system**, making it hard or impossible for an individual to get pregnant later on
- For individuals with a penis/testes: swelling in the testicles and tubes at the back of the testicles, possibly sperm fertilization of an egg later on
- Problems peeing due to scars in the **urethra**
- Infection of the blood that can lead to joint problems and other problems

Prevention

While the only way to fully prevent gonorrhea and other STIs is to not have sex (oral, vaginal, or anal), individuals can take several steps to reduce their risk if they are sexually active. This includes correctly using a latex condom during every sexual encounter and regularly getting STI testing.



Figure 8

Module 2: Sexually Transmitted Infection Basics

Individuals with late latent or tertiary syphilis typically need three injections, one week apart. While the infection itself can be cured, the medical problems it can lead to — such as dementia, artery damage, or blindness — usually can't be cured.

During treatment, a syphilis titer (i.e. the amount of antibody formed in response to syphilis) is used to monitor if treatment is successful. After successful treatment, a syphilis titer should decrease by at least fourfold (Figure 7, Example 2). If the syphilis titer increases fourfold (Figure 7, Example 1), this suggests there is a new syphilis infection.

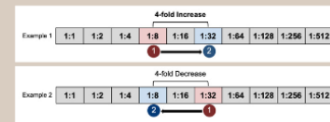


Figure 7

Prevention

While the only way to fully prevent syphilis and other STIs is to not have sex (oral, vaginal, or anal), individuals can take several steps to reduce their risk if they are sexually active. This includes correctly using a latex condom during every sexual encounter and regularly getting STI testing.

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Module 2: Sexually Transmitted Infection Basics

Tips for Using a Condom Correctly

- Use a new condom for EVERY sexual encounter.
- Before sex - Place condom on the head of penis. Pinch air out of the tip of the condom. Unroll condom all the way down the penis.
- After sex - Before pulling out, hold the condom at the base, then pull out while holding the condom in place.

Learning Objectives and Products

- **Objective 2.** I will produce a “medicine bag” health education collection by 11/07/2025 to enhance my ability to provide relevant education strategies that lead to meaningful increases in health literacy and positive health changes for specific populations.



Learning Objectives and Products

Stay Protected Against Hepatitis C (HCV)

- **How is HCV spread?**.... direct contact with an infected person's blood
- **How does that happen?**... most frequently through sharing drug needles
- **Can I get treated?**... yes, most people are cured after completing their treatment

For more info on syphilis or to get connected with care scan the QR code or email...

GPTEC.healthed@gptchb.org



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HCV Fast Facts

What is HCV?

Hepatitis C Virus, or HCV is spread by infected blood when sharing needles and other equipment during drug use, tattooing, piercing and unprotected sex. **HCV can also be spread to baby during pregnancy and birth.**

Get Tested

A blood test in a doctor's office can tell you if you have HCV, and if the test is positive you may need additional blood tests.

Lasting Impact

HCV can cause serious liver problems like cancer without medication.

How to Prevent

HCV can be stopped by never sharing **ANY** drug usage equipment and using condoms, internal condoms, or dental dams during **ALL** sex acts.

Treatable and Curable

HCV is treatable and can be cured. Most treatments involve 8-12 weeks of oral medication (pills).

Connect to Care

For questions about testing and treatment please reach out to your local health care provider. For health education related questions email GPTEC.healthed@gptchb.org.

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Learning Objectives and Products

Be a Good Partner and ...

- **Snag Safer** - use a condom, internal condom, or dental every time and the right way.
- **Get Tested** - the only way to know if you have syphilis or any other STI is to get tested
- **Get Treated** - syphilis is CURABLE with a common

For fast facts on syphilis
or to get connected
with care scan the QR
code or email...

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Syphilis Fast Facts

How is syphilis spread?

Syphilis is usually spread by sores during sex: oral (mouth to penis, vagina, anus, or mouth), vaginal, or anal (butt).

- Sores are usually painless and **can be hard to see** because they can be inside your mouth, vagina, or anus. They can also be on the penis (these are the easiest to see).

How to Prevent

Syphilis can be stopped by using a condom, internal condom, or dental dam during **EVERY** sex act.

"The Great Imitator"

Syphilis sores can look like warts and rashes. The sores will go away on their own, **BUT** syphilis does not go away until it is treated.

Lasting Impact

If left untreated syphilis can cause serious problems with sight, hearing, and brain function.

Congenital Syphilis

Syphilis can be passed to a baby during pregnancy or birth. Syphilis can cause death, serious birth defects, and life long health problems for babies. Congenital syphilis can be prevented by syphilis testing and treatment during pregnancy. **ALL** pregnant moms **AND** their partners should be tested.

Treatable and Curable

Syphilis is treated and cured with a common antibiotic. **You can get syphilis after you are treated if you have unprotected sex again with someone who has syphilis.**

Connect to Care

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Learning Objectives and Products

Fight Against HIV

- **Snag Safer** - use a condom, internal condom, or dental every time and the right way.
- **Syringe Safety** - never share needles or use unsterilized needles for piercings or tattoos
- **Know your Status** - get tested for HIV at your healthcare provider's office or at community events

For fast facts on HIV or to get connected with care scan the QR code or email...

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HIV Fast Facts

What is HIV?

Human Immunodeficiency Virus, or HIV is spread through infected blood or body fluids. HIV can be spread during **ALL** sex acts or shared drug equipment. *It can also be spread to baby during pregnancy, birth, and breast feeding.* HIV damages the body's immune system and makes it hard for the body to fight off other illnesses and some cancers.

Get Tested

HIV can be tested for by a blood draw, finger poke, or oral swab.

HIV and AIDS?

Testing positive for HIV means that the virus is inside your body. Acquired Immune Deficiency Syndrome, or AIDS is the last and worst stage of an HIV infection. AIDS is when body has a very hard time or can't fight off infections. AIDS can be stopped or slowed with medication and medical care.

How to Prevent

Use condoms, internal condoms, or dental dams during **EVERY** sex act. Never use shared drug equipment. HIV is **NOT** spread through sharing utensils, kissing, coughing or sneezing, pee, poop, spit, throw up, or sweat as long as there is no blood in them.

If you are worried about getting HIV, talk to your doctor about PrEP medication. Taking PrEP as prescribed can **GREATLY** lower your chance of getting HIV even if you are exposed. *If you think you have been exposed to HIV talk to a doctor right away.*

Treatable

HIV is treatable, but not curable. There is medication that can keep your HIV levels very low and keep your immune system healthy. Medication can also prevent you from spreading HIV to others.

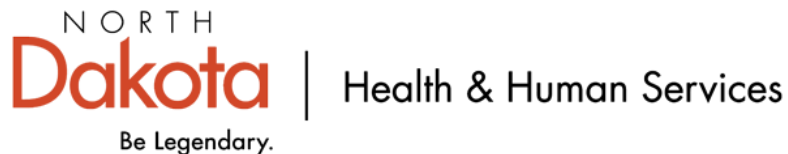
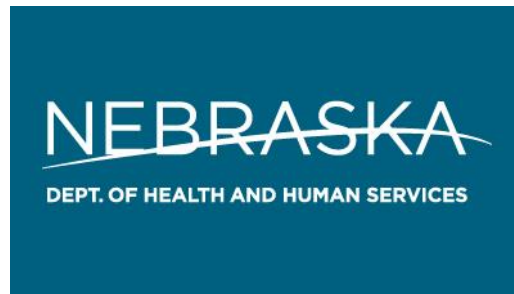
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Next Steps

Data Access!



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Synthesis and Integration of Competencies

Number and Competency		Description of Synthesis and Integration
MPH 1	Apply epidemiological methods to the breadth of settings and situations in public health practice	Assisting the GPTEC informatics and data coordinating units construct and enhance an internal EDSS system for enhanced Tribal public health response capacity to infectious diseases and emerging outbreaks.
MPH 8	Select communication strategies for different audiences and sectors	Assessing the relationships between non-Tribal DIS during statewide calls and conferences and while supporting Tribal Nations during community testing events allowed me to formulate the best strategies for educating both TDIS and the Relatives they serve.
IDZ 1	Evaluate modes of disease causation of infectious agents	Conducting TDIS work in tandem with or entirely for Tribal public health departments throughout the GPA allowed me to better assess and articulate the various causative factors of STIs and to explore how social drivers of health influence and allow for STI spread.

Attainment of Competencies



Practice-based products that demonstrate competency attainment

Specific Products	Competency Number	Competency
GPTEC TDIS Certification Student Manual Module 2: STI Basics and Medicine Bag Health Education	MPH 8	Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
GPTEC TDIS Certification Student Manual Module 2: STI Basics and Medicine Bag Health Education	MPH 19	Communicate audience-appropriate public health content, both in writing and through oral presentation
GPTEC TDIS Certification Student Manual Module 2: STI Basics and Medicine Bag Health Education	MPH 20	Describe the importance of cultural competence in communicating public health content
GPTEC TDIS Certification Student Manual Module 2: STI Basics and Medicine Bag Health Education	IDZ 1	Evaluate modes of disease causation of infectious agents
GPTEC TDIS Certification Student Manual Module 2: STI Basics	IDZ 4	Analyze disease risk factors and select appropriate surveillance

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GPTEC Team

Christy Hacker, MPH

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Grad Committee

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Questions?

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