

Chlamydia

1. DISEASE REPORTING

A. Purposes of Reporting and Surveillance

1. To assess trends in epidemic patterns, understand the impact of the burden of disease on populations, the health care infrastructure, and to better target population-level disease prevention efforts;
2. To assure the adequate treatment of infected individuals in order to reduce the duration of infectiousness and prevent sequelae of infection. (e.g., PID, ectopic pregnancy, infertility);
3. To identify cases in a timely fashion in order to interrupt the chain of infection through patient-level interventions such as management of sexual contacts and behavioral risk reduction counseling.

B. Legal Reporting Requirements

[Washington State Administrative Code \(WAC\) 246-101](#) provides an overview of legal reporting requirements for notifiable events in Washington. Important updates to the reporting of patient ethnicity, race, and preferred language information, set to be effective January 1, 2023, can be found at the following link:

<https://app.leg.wa.gov/WAC/default.aspx?cite=246-101-011>

1. Health care providers: notifiable to local health jurisdiction within three (3) work days. Cases should be reported using the Sexually Transmitted Disease (STD) Morbidity Report Form: <https://doh.wa.gov/you-and-your-family/illness-and-disease-z/sexually-transmitted-disease-std/case-reports>
2. Hospitals: notifiable to local health jurisdiction within three (3) work days. Cases should be reported using the STD Morbidity Report Form: <https://doh.wa.gov/you-and-your-family/illness-and-disease-z/sexually-transmitted-disease-std/case-reports>
3. Laboratories: Positive or indeterminate result from any test method notifiable to local health jurisdiction within two (2) work days.
4. Local health jurisdictions: notify the Washington State Department of Health (DOH), STD Services Section within seven (7) days of case investigation completion; summary information required within 21 days for all reported cases. Enter case report information into the Public Health Issue Management System – Sexually Transmitted Disease (PHIMS-STD).

C. Investigation Responsibilities

1. Chlamydia cases should be reported to DOH using the PHIMS-STD system to enter investigation information including provider case report, laboratory, interview, and partner management data.
2. At a minimum, staff should initiate an investigation of the index patient within three (3)

work days of receiving a request for partner management from a reporting health care provider. Other cases should be investigated based on local priorities.

3. Local health jurisdiction staff should inform health care providers of the importance of instructing patients to refer sex partners for evaluation and treatment.

2. THE DISEASE AND ITS EPIDEMIOLOGY

A. Etiologic Agent

Chlamydia trachomatis bacterium.

B. Description of Illness

Most chlamydial infections are asymptomatic, that is, they do not cause symptoms that would be noticeable to the infected individuals. Sexually transmitted genital infection is manifested in males primarily as a urethritis, and in females as a cervical infection. Clinical manifestations of urethritis are often difficult to distinguish from gonorrhea and include moderate or minimal mucopurulent discharges, urethral itching, and burning on urination. Asymptomatic infection may be found in 1% -25% of sexually active men. Possible complications or sequelae of male urethral infection include epididymitis, infertility and Reiter's syndrome.

In females, the clinical manifestations may be similar to those of gonorrhea and may present as mucopurulent endocervical discharge with edema, erythema, and easily induced endocervical bleeding caused by inflammation of the endocervical columnar epithelium. Up to 70% of sexually active women with chlamydial infections are asymptomatic. Complications and sequelae include salpingitis with subsequent risk of infertility, ectopic pregnancy or chronic pelvic pain. Asymptomatic chronic infections of the endometrium and fallopian tubes may lead to the same outcome. Infection during pregnancy may result in conjunctival and pneumonic infection of the newborn.

C. Chlamydia in Washington State

In recent years, DOH received over 30,000 reports of chlamydia per year. To view the most recent morbidity information on reported chlamydia cases, see here:

<https://www.doh.wa.gov/YouandYourFamily/IllnessandDisease/SexuallyTransmittedDisease/MorbidityReports>

D. Reservoir

Humans

E. Mode of Transmission

Contact with exudates from mucous membranes of infected people, almost always as a result of sexual activity.

F. Incubation Period

Poorly defined, probably 7-14 days or longer.

G. Period of Communicability

Unknown. Untreated individuals may be infectious for long periods of time.

H. Treatment

Treatment options include azithromycin or doxycycline. See full CDC treatment

guidelines: <https://www.cdc.gov/std/treatment-guidelines/>

3. CASE DEFINITIONS

A. Clinical Criteria for Diagnosis

Infection with *C. trachomatis* may result in urethritis, epididymitis, cervicitis, acute salpingitis, or other syndromes when sexually transmitted. However, the infection is often asymptomatic, particularly in women. Perinatal infections may result in inclusion conjunctivitis and pneumonia in newborns. Other syndromes caused by *C. trachomatis* biovars include lymphogranuloma venereum and trachoma.

B. Laboratory Criteria for Diagnosis

1. Isolation of *Chlamydia trachomatis* by culture or
2. Demonstration of *Chlamydia trachomatis* in a clinical specimen by detection of antigen or nucleic acid.

C. Case Definition

Confirmed: a case that is laboratory confirmed.

4. DIAGNOSIS AND LABORATORY SERVICES

A. Diagnosis

Nucleic acid amplification tests (NAATs) are the preferred method for diagnosing chlamydial infection. NAATs are generally cleared by the Food and Drug Administration (FDA) for use on cervical, urethral and urine specimens. Some are cleared for vaginal specimens. Many labs have validated the performance of NAATs on pharyngeal, rectal and ocular sites. Check with your lab to find out what specimen types they accept. Nonculture tests such as enzyme immunoassay (EIA) and direct fluorescent antibody (DFA) can be used for genital sites. Chlamydia culture is technically challenging, but it is recommended for medical-legal cases because it is 100% specific.

5. ROUTINE CASE INVESTIGATION

A. Evaluate the Diagnosis

All cases should be confirmed by a laboratory positive test (culture or nonculture tests such as nucleic acid amplification).

B. Identify Source of Infection

Case investigation should be initiated within three (3) days for selected cases of chlamydial infection. Interviewing priorities will vary depending on the priorities and resources available for investigation. For many jurisdictions, the volume of reported chlamydia is prohibitively large for public health follow-up to control the spread of disease. Local health jurisdictions may establish priorities for public health follow-up such as pregnant females, residents at juvenile detention facilities or other populations based on local priorities. Programs may also prioritize work with MSM or PLWH diagnosed with chlamydia to enhance HIV prevention and linkage to care efforts with those populations. The following case investigation method is recommended to be used by local health jurisdictions:

1. Providers will indicate on the initial case report whether expedited partner therapy was provided for their individual patients. Physicians and other diagnosing clinicians are expected to provide medication or prescriptions for medication, and partner management directions to their patients whenever possible. Exceptions may be cases where the index case is unwilling to contact one or more exposed partners, where the patient is a man who has sex with men (MSM), or in cases where the clinician's best judgment is that the patient is not able or willing to follow through with partner contact.
2. For all chlamydial infection cases initiated for interview, a standard confidential partner management interview (long or short version) should be attempted. Patient confidentiality must be preserved throughout the follow-up process. Telephone contact and interview is an acceptable methodology. Letters can be mailed or text messages sent to notify the patient that the LHJ is attempting to interview them. These letters/texts should not have any information on the disease diagnosis to prevent breach of confidentiality if they are opened by someone other than the intended recipient. Partner management interviews will adhere to established protocols, use the Integrated Partner Services Interview Record and Partner Management Record forms, and all information collected will be entered into the PHIMS-STD data system. Case reports, laboratory results and patient interview and partner management information should be entered into the PHIMS-STD data system as soon as these data become available to LHJ staff members. Local health jurisdiction staff may contact Washington State's STD Surveillance Coordinator (360-236-3441) for information on accessing and using the PHIMS-STD system.
3. The goal of partner elicitation is to obtain sufficient information to confidentially locate, notify, and refer the partners or suspects for necessary examination, treatment (if appropriate), and risk reduction counseling. Through standard interviews with the patient, individuals who have had sexual contact with the case within sixty (60) days prior to treatment should be identified. This should include both potential sources for the infection and other persons who the patient may have exposed. Local health jurisdiction staff should determine if the patient is willing and able to contact their partners and deliver partner treatment. If the patient is unwilling or unable to contact their partners, interviewers should obtain complete locating and identifying information on each contact, including nicknames and first and last dates of exposure. In addition to collecting all information on the Partner Management Record, each partner named should be reviewed with the patient during the interview to establish a follow-up method. To prevent reinfection, patients should be instructed not to have sex until all sex partners are treated. The patient should also be encouraged to return to their provider to be re- screened for infection in approximately three (3) months.

C. Managing Potentially Exposed Persons

All sex partners within sixty (60) days before the onset of symptoms or diagnosis of infection in the patient should be evaluated, tested (if possible) and treated. If a case has not had sex in the sixty (60) days preceding their diagnosis, the most recent sex partner should be treated.

1. Using available information, the sexual partners of reported cases should be contacted within two (2) working days of initial interview by telephone, field visit, or

other method, and referred to their provider for evaluation, testing and treatment. If the contact's treatment cannot be verified within a reasonable time frame, additional attempts should be made to assure treatment.

2. Sexual partners should be evaluated for other common bacterial STDs (*N. gonorrhoeae*), and offered testing for HIV, syphilis, and viral STDs such as HPV or genital herpes. If testing is unavailable, expedited partner therapy (EPT) methods should be used to treat the partner. EPT should not be used for MSM partners, but all MSM partners should be referred for HIV testing and, if appropriate to their risk, evaluation for PrEP. The disposition (treatment outcome) of each partner must be recorded in PHIMS- STD as soon as this information is available.
3. If the patient identifies a partner who lives outside of the local health jurisdiction, the contact information may be transferred to the appropriate jurisdiction within PHIMS – STD by sharing the case in the system and providing the receiving LHJ with the partner number. For partners residing out of state, LHJ staff should provide the state STD Services Section (360-236-3482) with the relevant information to arrange for necessary follow-up.
4. Newborns delivered of women with chlamydia (excluding those delivered by Caesarean) should be medically evaluated and treated as necessary.

D. Environmental Evaluation

None applicable.

6. CONTROLLING FURTHER SPREAD

A. Infection Control Recommendations

1. Health care setting

Standard Precautions are a set of protocols designed to reduce the risk of (or prevent) transmission of pathogens. Standard precautions synthesize the major features of Universal (Blood and Body Fluid) Precautions (designed to reduce the risk of transmission of bloodborne pathogens) and Body Substance Isolation (designed to reduce the risk of transmission of pathogens from moist body substances). Under standard precautions blood, all body fluids, and all body substances of patients are considered potentially infectious (CDC, 1997).

For more information, see CDC Program Guidelines:

<http://www.cdc.gov/std/program/med&lab.pdf>

2. General

When used consistently and correctly, condoms are effective in preventing the sexual transmission of STDs.

B. Case Management

See routine case investigation in Section 5 above.

C. Contact Management

See routine case investigation in Section 5 above.

D. Environmental Measures

None applicable.

7. MANAGING SPECIAL SITUATIONS

Call the DOH Infectious Disease Mainline for special situations (360-236-3444), or reach out to your regional Infectious Disease Field Services point of contact:

<https://www.doh.wa.gov/AboutUs/ProgramsandServices/DiseaseControlandHealthStatistics/InfectiousDisease/SexuallyTransmittedDiseaseStaff>

8. ROUTINE PREVENTION

A. Vaccine Recommendations

No vaccine currently exists for chlamydia.

B. Prevention Recommendations

Key individual STD prevention messages include:

Abstinence

Abstain from sex (do not have oral, anal, or vaginal sex) until you are in a relationship with only one person, are having sex with only each other, and each of you knows the other's STD, including HIV, status.

If you have, or plan to have, more than one sex partner:

- Use a latex condom and lubricant every time you have sex.
- Get tested for asymptomatic STDs including HIV.
- If you are a man who has had sex with other men, get tested at least once a year.
- If you are a woman who is planning to get pregnant or who is pregnant, get tested for syphilis and HIV as soon as possible, before you have your baby. Ask your health care provider about being tested for other STDs.
- Talk about STDs, including HIV, with each partner before you have sex.
- Learn as much as you can about each partner's past behavior (sex and drug use).
- Ask your partners if they have recently been treated for an STD or have been tested for HIV; encourage those who have not been tested to do so.

Key STD prevention strategies include:

STD prevention counseling, testing, and referral services – Individuals at risk for STD should be offered counseling regarding methods to eliminate or reduce their risk and testing so that they can be aware of their status and take steps to protect their own health and that of their partners.

Partner Services (or Partner Notification) with strong linkages to prevention and treatment/care services – Sexual partners of STD-infected persons have been exposed to an STD and are at-risk of being infected. Partner services locate these individuals

based on information provided by the patient and provide counseling and education about the exposure as well as services to prevent infection or, if infected, linkages to care.

Prevention for high-risk populations – Prevention interventions for high-risk populations at high-risk for STDs, including HIV-infected persons, are critical to reducing the spread of STDs and HIV and ensure that those at highest risk of acquiring or transmitting these diseases are given the tools necessary to protect themselves and others from HIV infection. Prevention includes targeted health education and risk reduction, health communication programs, and public information programs for at-risk populations and the general public.

HIV Prevention and Care – For people at high risk of acquiring HIV, which may include for example some MSM patients and some people who inject drugs, referral to HIV testing (if HIV status is not already known) and referral to PrEP (Pre-exposure Prophylaxis for HIV) navigation or evaluation is key in preventing acquisition of HIV. For people living with HIV who are not receiving medical care or who are not virally suppressed, referral to HIV case management and medical care for HIV infection are key in promoting individual health as well as preventing spread of HIV. More information about PrEP for HIV in Washington State can be found here:

<https://www.doh.wa.gov/YouandYourFamily/IllnessandDisease/HIV/Prevention/PrEP>

School-based STD Prevention – Schools have a critical role to play in promoting the health and safety of young people and helping them establish lifelong healthy behavior patterns. Washington State requires schools to teach medically accurate comprehensive sex education if such is provided by the school district.

ACKNOWLEDGEMENTS

We would like to acknowledge the Oregon Department of Human Services for developing the format and select content of this document.

To request this document in another format, call **1-800-525-0127**. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email civil.rights@doh.wa.gov.