These guidelines are based on the Canadian Guidelines on Sexually Transmitted Infections (STI) 2010 Edition and online updates to 2014

This document contains treatment guidelines for clinicians and public health professionals regarding care and treatment of STIs in British Columbia and are based on the best available scientific knowledge and medical practices. These guidelines are for information purposes only and are not intended in any manner to replace clinical judgment or to establish the only approach to all patients. Clinicians and public health professionals must use their independent medical judgment in the context of the individual clinical circumstances to determine patient care or treatment. Clinicians and public health professionals are encouraged to consult other sources in order to confirm the information contained in these guidelines, including, but not limited to, individual product monograph(s), and standards or instructions provided by licensed manufacturers.

These guidelines may be updated as evidence and current practice regarding the management of STIs evolves. Clinicians and public health professionals must ensure the guidelines they have are current. Although all efforts are taken by BCCDC to ensure the completeness of the guidelines, BCCDC does not guarantee the completeness or accuracy of the information nor is the BCCDC responsible for damages resulting from the misuse of the information.

The level of evidence and strength of recommendations are graded and summarized below.

### Table 1. Levels of Recommendation

| Recommendation: A | Strongly recommends that clinicians routinely provide the treatment to eligible individuals. Good evidence that the treatment improves important health outcomes and concludes that benefits substantially outweigh harms. |
| Recommendation: B | Recommends that clinicians routinely provide the treatment to eligible individuals. At least fair evidence that the treatment improves important health outcomes and concludes that benefits outweigh harms. |
| Recommendation: C | No recommendation for or against routine provision of the treatment. At least fair evidence that the treatment can improve health outcomes but concludes that the balance of the benefits and harms is too close to justify a general recommendation. |
| Recommendation: D | Recommends against routinely providing the treatment to asymptomatic individuals. At least fair evidence that the treatment is ineffective or that harms outweigh benefits. |
| Recommendation: I | Evidence is insufficient to recommend for or against routinely providing the treatment. Evidence that the treatment is effective is lacking, of poor quality or conflicting, and the balance of benefits and harms cannot be determined. |

Include routine HIV screening with any other STI testing. With certain sexually transmitted infections, it is important to treat partners and contacts at the time of testing, before results are available.

Recommendations regarding treatment of paediatric infections are excluded from these guidelines. In general, children diagnosed with a STI should be managed in conjunction with a specialist and investigation of possible sexual abuse needs to be considered.

Contact the Provincial STI/HIV Clinic Physician for further management or the Child Protection Service Unit (a multidisciplinary team located at BC Children’s Hospital) 604.875.2000 or 1.800.300.3088 (toll free in BC only).

Routine STI updates are communicated via admin circulars on the BCCDC website. To receive ongoing STI updates, go to the BCCDC website: www.bccdc.ca - CDC Manual - Admin Circulars, enter your Email address and SUBMIT.

To keep the guidelines concise, references are not published with the guidelines.


For reportability of sexually transmitted infections refer to the Public Health Act of British Columbia (PHA): Health Act Communicable Disease Regulation

See: http://www.health.gov.bc.ca/phact/

To consult with the Provincial STI/HIV Clinic Physician call 604.707.5600
**Chlamydia - Chlamydia trachomatis**

*If Lymphogranuloma Venereum (LGV) is suspected please contact the Provincial STI/HIV Clinic Physician and refer to LGV Section.*

**Recommended Regimen**

<table>
<thead>
<tr>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doxycycline 100 mg PO bid for 7 days (A-I)</td>
</tr>
<tr>
<td>Azithromycin 1 g PO in a single dose (A-I)</td>
</tr>
<tr>
<td>(If vomiting occurs more than one hour post-</td>
</tr>
<tr>
<td>administration, a repeat dose is not required.)</td>
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</tbody>
</table>

**Alternate Treatment**

<table>
<thead>
<tr>
<th>Option</th>
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</thead>
<tbody>
<tr>
<td>Erythromycin 500 mg PO qid for 7 days (B-I)</td>
</tr>
<tr>
<td>Erythromycin 250 mg PO qid for 14 days (B-I)</td>
</tr>
</tbody>
</table>

**Considerations - Pregnancy/Lactation**

- **Recommended Regimen**

<table>
<thead>
<tr>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amoxicillin 500 mg PO tid for 7 days (A-I)</td>
</tr>
<tr>
<td>Azithromycin 1g PO in a single dose (B-I)</td>
</tr>
<tr>
<td>(If vomiting occurs more than one hour post-</td>
</tr>
<tr>
<td>administration, a repeat dose is not required.)</td>
</tr>
</tbody>
</table>

**Follow Up**

- **A TOC for C. trachomatis**
- **IS NOT RECOMMENDED** when:
  - the standard treatment regimen for chlamydia has been completed
  - signs and symptoms have resolved
  - there is no re-exposure to an untreated partner

- **A TOC for C. trachomatis**
- **IS RECOMMENDED** when:
  - compliance is uncertain
  - patient was not initially treated with a recommended regimen
  - patient is pregnant
  - Repeat screening is recommended at 6 months post-treatment as chlamydia re-infection risk is high.

**Lymphogranuloma Venereum (LGV) C. trachomatis - Serovars L1,2,3**

*For suspected LGV cases, please contact the Provincial STI/HIV Clinic Physician for further management.*

The diagnosis of LGV is not always straightforward and symptoms often overlap with other STIs. A diagnosis of LGV is often based on history and clinical presentation which is later confirmed by laboratory testing.

**Considerations**

LGV strains of C. trachomatis are more invasive, preferentially affecting the lymph tissue. If a patient presents with a painless genital papule, proctitis (especially hemorrhagic proctitis), painful inguinal/femoral lymphadenopathy AND has had a positive C. trachomatis CT/GC NAAT (nucleic acid amplification test) swab from a lesion or the rectum, please arrange for confirmatory LGV testing by contacting your laboratory or the Provincial STI/HIV Clinic Physician. Empiric treatment may be warranted.

**Recommended Regimen**

<table>
<thead>
<tr>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doxycycline 100 mg PO bid for 21 days (B-I)</td>
</tr>
</tbody>
</table>

**Alternate treatment**

- Azithromycin 1g PO in a single dose, once weekly for 3 weeks (C-III)
- Erythromycin 500 mg PO qid for 21 days (C-III)
  - (Patients are less likely to be compliant with Erythromycin x 3 weeks duration)

**Treatment of Contact to LGV**

- **Doxycycline 100 mg PO bid for 7 days (A-I)**
- **Azithromycin 1g PO in a single dose (A-I)**

**Treatment of Contact to LGV with symptoms and/or lab tests consistent with LGV**

- **Doxycycline 100 mg PO bid x 21 days**
### Gonorrhea - *Neisseria gonorrhoeae*

The treatment regimen recommended by BCCDC differs from the Canadian STI Guidelines treatment guidelines for *Neisseria gonorrhoeae*. BC recommendations continue to be updated according to provincial surveillance data.

**Uncomplicated Infection (Urogenital/Rectal/Pharyngeal sites)**
All regimens require concomitant empiric treatment for chlamydial and other non-gonococcal infections.

<table>
<thead>
<tr>
<th><strong>Recommended Regimen</strong></th>
</tr>
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<tbody>
<tr>
<td>Cefixime 800 mg PO in a single dose (A-I)</td>
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<td>OR Ceftriaxone 250 mg IM in a single dose (A-I)</td>
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<tr>
<td>(The preferred diluent for this dose of ceftriaxone is 0.9 mL of 1% lidocaine without epinephrine to reduce discomfort.)</td>
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<tr>
<td><strong>PLUS</strong></td>
</tr>
<tr>
<td>Azithromycin 1 g PO in a single dose (A-I)</td>
</tr>
<tr>
<td>(If vomiting occurs more than one hour post-administration, a repeat dose is not required.)</td>
</tr>
<tr>
<td>OR Doxycycline 100 mg PO bid for 7 days (A-I)</td>
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</tbody>
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<table>
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<tr>
<th><strong>Alternate Treatment</strong></th>
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</thead>
<tbody>
<tr>
<td>Azithromycin 2 g PO in a single dose (A-I)</td>
</tr>
<tr>
<td>(Taking medication with food may minimize adverse effects.)</td>
</tr>
<tr>
<td>OR Spectinomycin 2 g IM in a single dose (A-I)</td>
</tr>
<tr>
<td>(Consult Provincial STI/HIV Clinic Physician to order and access this medication. Test of cure (TOC) is recommended.)</td>
</tr>
<tr>
<td><strong>PLUS</strong></td>
</tr>
<tr>
<td>Co-treatment for chlamydia</td>
</tr>
</tbody>
</table>

**Considerations**
- Assess for pelvic inflammatory disease (PID) or epididymitis and treat accordingly.
- Obtaining cultures for *N. gonorrhoeae* is important for monitoring antibiotic resistance. Clinicians are encouraged to perform a culture for *N. gonorrhoeae*, in addition to a CT/GC NAAT (nucleic acid amplification test) test, for any patient with obvious cervical, urethral or rectal discharge.
- Cultures for *N. gonorrhoeae* should be performed in all cases of:
  - suspected pelvic inflammatory disease (PID)
  - treatment failure
  - sexual contacts outside of Canada or from areas with recognized antimicrobial resistance
  - sexual assault

**Pregnancy/Lactation**

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<td>Cefixime 800 mg PO as a single dose (A-I)</td>
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</tr>
<tr>
<td>OR Azithromycin 1 g PO in a single dose (B-I)</td>
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<td>Spectinomycin 2 g IM in a single dose</td>
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<td>(Consult Provincial STI/HIV Clinic Physician to access this medication.)</td>
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<td><strong>PLUS</strong></td>
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<tr>
<td>Co-treatment for chlamydia</td>
</tr>
<tr>
<td>(See Chlamydia section: Recommended Regimen – Pregnancy/Lactation)</td>
</tr>
</tbody>
</table>

**Considerations - Pregnancy/Lactation**
- A test of cure (TOC) by culture is recommended for all pregnant and lactating patients at 3 - 7 days after initiation of treatment.

**Partners/Contacts**
All partners/contacts in the last 60 days, regardless of symptoms or signs should be tested and treated with one of the recommended regimens. If there is no partner during this period, then the last partner should be tested and treated.

Patients and contacts should abstain from sexual activity for 7 days after initiation of treatment and should be advised to avoid exposure to any untreated partner(s).

**Follow Up**
- TOC by culture is recommended for gonorrhea positive patients 3 – 7 days after initiation of treatment when:
  - patient is diagnosed with a gonococcal pharyngeal infection
  - patient is treated with a non-recommended regimen
  - treatment failure is suspected
  - antimicrobial resistance to therapy is documented
  - compliance is uncertain
  - re-exposure to an untreated partner is suspected
  - PID or disseminated gonococcal infection is diagnosed
  - patient is pregnant
- If NAAT is used for gonorrhea TOC, it should be done 2 -3 weeks after initiation of treatment.
- Repeat screening is recommended at 6 months for all *N. gonorrhoeae* positive cases.
Bacterial Vaginosis (BV)

Bacterial vaginosis is not usually considered a sexually transmitted infection.

Symptoms noted by either the clinician during a pelvic examination, or reported by the patient, may include abnormal vaginal discharge and/or abnormal vaginal odour (i.e., amine odour).

Abnormal vaginal odour may be noticeable with or without potassium hydroxide (KOH) assessment and vaginal pH is usually elevated greater than 4.5. An elevated vaginal pH in peri-menopausal or post menopausal women in the absence of other vaginal symptoms may not indicate a BV infection.

When the laboratory report (e.g., Nugent Score) is intermediate or positive and the client is asymptomatic, treatment would not be recommended unless:
• patient is pregnant and at high risk for pre-term delivery
• patient is scheduled to have any upper reproductive tract instrumentation (e.g., gynaecological surgery, D&C or therapeutic abortion)

There is not enough current evidence to support routine screening for BV at the time of IUD insertion in asymptomatic women.

**Recommended Regimen**
- Metronidazole 500 mg PO bid for 7 days (A-I)
- Metronidazole gel 0.75% x one applicator (5 g) once a day intravaginally for 5 days (A-I)
- Clindamycin cream 2% x one applicator (5 g) intravaginally once a day for 7 days (A-I)

**Alternate Treatment**
- Metronidazole 2 g PO in a single dose (A-I)
- Clindamycin 300 mg PO bid for 7 days (A-I)

**Considerations - Pregnancy/Lactation**
• Systemic rather than intravaginal treatment is recommended in pregnancy as intravaginal treatment alone has not been shown to decrease the risk of adverse pregnancy outcomes.
• Intravaginal clindamycin cream has been associated with adverse outcomes in the neonate and should only be used when alternatives are not possible.
• Test and treat symptomatic pregnant women.
• Routine screening for BV is not recommended during pregnancy unless it is a high risk pregnancy.
• If considered a high risk pregnancy, screen at 12 - 16 weeks.
• BV during pregnancy is associated with premature rupture of membranes, chorioamnionitis, preterm labour, preterm birth and post-cesarean endometritis.
• Testing should be repeated after one month to ensure therapy was effective.

**Partners/Contacts**
Treatment of male sexual partners is not indicated and does not prevent recurrence.

Offer female partners of women diagnosed with BV, assessment, testing, and possible treatment if the female partner(s) tests are positive. (D-I)

**Follow Up**
Follow up is not considered necessary unless symptoms recur.

**Trichomoniasis - Trichomonas vaginalis**

**Recommended Regimen**
- Metronidazole 2 g PO in a single dose (A-I)
- Metronidazole 500 mg PO bid for 7 days (A-I)

**Considerations**
• Individuals taking metronidazole should not drink alcohol or take alcohol-based medications for 12 hours before and 24 – 48 hours after treatment because of possible disulfiram-like (Antabuse) reaction.

**Pregnancy/Lactation**
**Recommended Regimen**
- Metronidazole 500 mg PO bid for 7 days (A-I)

**Alternate Regimen**
- Metronidazole 2 g PO in a single dose (A-I)
- Clindamycin 300 mg PO bid for 7 days (A-I)

**Partners/Contacts**
Partners/contacts should be treated with the same therapy recommended for the patient. It is not necessary to screen sexual partners. The majority of men infected with *Trichomonas vaginalis* are asymptomatic, although occasionally men will report having mild urethritis.

**Follow Up**
Follow up is not considered necessary unless recurring symptoms are presumed to be due to re-infection.
Vulvovaginal Candidiasis - *Candida albicans*

Vulvovaginal candidiasis is not usually considered a sexually transmitted infection and treatment is not necessary for asymptomatic patients. (D-I)

**Recommended Regimen**

**Over-the-counter (OTC) treatments:**
Clotrimazole or miconazole, intravaginal azole ointments and/or creams (A-I)

**OR**

Fluconazole 150 mg PO in a single dose. (A-I)

**Considerations:**
- Oil based ointments and creams may weaken latex condoms or diaphragms.

**Pregnancy/Lactation**

Fluconazole is contraindicated in pregnancy. Only topical azoles are recommended for treatment of vulvovaginal candidiasis during pregnancy. Treatment for 7 days may be necessary.

**Partners/Contacts**

Routine screening and treatment of male partners is not indicated. (D-I) However, if *Candida* balanitis is present, consider treatment of male sexual partners with a topical azole cream twice a day for 7 – 14 days.

**Follow Up**

No follow up necessary unless symptoms persist or recur in which case repeat assessment is advised.

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**Pelvic Inflammatory Disease (PID)**

*The BCCDC recommended regimen differs from the Canadian STI Guidelines treatment guidelines for PID.*

**Outpatient Treatment**

**Recommended Regimen**

Cefixime 800 mg PO in a single dose (A-I)

**OR**

Ceftriaxone 250 mg IM in a single dose (A-I)

(The preferred diluent for this dose of ceftriaxone is 0.9 mL of 1% lidocaine without epinephrine to reduce discomfort.)

**PLUS**

Doxycycline 100 mg PO bid for 10 – 14 days (A-I)

**OR**

Azithromycin 1g PO in a single dose, once weekly for 2 weeks

**WITH or WITHOUT**

Metronidazole 500 mg PO bid for 10 – 14 days (B-I/II)

**Alternate Treatment**

Levofloxacin 500 mg PO bid for 14 days (A-I)

(The alternate antibiotic treatment above will cover enteric organisms, but may not cover *N. gonorrhoeae* or *C. trachomatis*.)

**WITH or WITHOUT**

Metronidazole 500 mg PO bid for 14 days (A-I)

**Considerations**

- In treating mild to moderate PID, it is not necessary to remove the IUD during treatment unless there is no clinical improvement after 72 hours of recommended antibiotic treatment.
- Consider hospitalization when the patient:
  - is pregnant
  - is severely ill with nausea and vomiting and/or high fever
  - has a suspected tubo-ovarian abscess
  - cannot tolerate oral medication
  - May have a surgical emergency such as appendicitis or an ectopic pregnancy

**Pregnancy/Lactation**

Consultation with a obstetrical/gynaecology specialist is recommended.

Pregnant patients with suspected PID should be hospitalized for evaluation and treatment with parenteral therapy.

Fluroquinolones (e.g., levofloxacin), doxycycline and estolate preparations of erythromycin are contraindicated for pregnant and lactating women.

If patient is HIV positive a consultation with an HIV specialist is advised see: BC Women’s Hospital & Healthcare Centre Oak Tree Clinic - Providing Care to Women & Families Living with HIV/AIDS www.oaktreeclinic.bc.ca

**Partners/Contacts**

All partners/contacts in the last 60 days regardless of symptoms or signs should be tested and treated for gonorrhea and chlamydia. If there is no partner during this period, then the last partner should be tested, treated and advised to abstain from sexual activity for 7 days after initiation of treatment.

Patients should abstain from sexual activity until treatment is completed (i.e., 10 – 14 days) and should be advised to avoid exposure to any untreated partner(s).

**Follow Up**

Patients treated for PID as outpatients need careful follow-up and should be re-evaluated 48 – 72 hours after therapy has been initiated. If no clinical improvement has occurred, hospital admission for parenteral therapy and observation may be required.
Urethritis

Urethritis is a diagnosis based on presenting urethral symptoms in the absence of microscopic assessment. The recommended regimen covers both *N. gonorrhoeae* and *C. trachomatis*.

**Recommended Regimen**
- Cefixime 800 mg PO as a single dose (A-I)
  - OR
- Ceftriaxone 250 mg IM in a single dose (A-I)
  - (The preferred diluent for this dose of ceftriaxone is 0.9 mL of 1% lidocaine without epinephrine to reduce discomfort)
  - PLUS
- Doxycycline 100 mg PO bid for 7 days (A-I)
  - OR
- Azithromycin 1 g PO as a single dose (A-I)

**Considerations**
- If a male patient presents with urethral symptoms (e.g., urethral discharge, dysuria, intermittent urethral itching/tingling or meatal erythema) and Gram stain results are unavailable, test and treat empirically for both gonorrhea and chlamydia.
- Full resolution of symptoms can take up to 14 days or longer after therapy has been initiated.

**Follow Up**

If symptoms persist or recur after therapy has been completed, (i.e. 14 days or more after the initiation of treatment) the patient should be re-evaluated.

See Persistent or Recurrent Urethritis Section. Symptoms alone are not sufficient for re-treatment in the absence of laboratory findings or clinical signs.

**Partners/Contacts**

Patients and contacts should abstain from sexual activity for 7 days after initiation of treatment and should be advised to avoid exposure to any untreated partner(s).

Persistent or Recurrent Urethritis

Persistent or Recurrent Urethritis is defined as:
- persistent urethral symptoms
- co-treatment for *N. gonorrhoeae* and *C. trachomatis* was more than 2 weeks ago
- there has been no re-exposure to an untreated or new sexual partner

**Recommended Regimen**
- If *Doxycycline* was the initial treatment consider
  - Azithromycin 1 g PO in a single dose (A-I)
  - OR
- Erythromycin 500 mg PO qid for 7 - 14 days
- If *Azithromycin* was the initial treatment consider
  - Doxycycline 100 mg PO bid for 7 days (A-I)
  - OR
- Erythromycin 500 mg PO qid for 7 - 14 days

**Considerations**
- Other Potential Causes:
  - organisms not covered by the original treatment (e.g., *Trichomonas vaginalis*)
  - antimicrobial resistant organisms
  - prostatitis
  - non-infectious inflammatory syndromes
- Patients who have been appropriately treated for urethritis and continue to have urethral symptoms in the absence of a known STI infection may benefit from the anti-inflammatory properties of either doxycycline or erythromycin.
- If there is no resolution of symptoms after treatment, consider referring the patient to a urologist.

Nongonococcal Urethritis (NGU)

NGU is a diagnosis based on immediate laboratory microscopy (i.e., urethral smear) showing inflammatory/pus cells as greater than or equal to 5 PMNs (i.e., polymorphonuclear leukocytes) in the absence of typical intracellular diplococci (i.e., *N. gonorrhoeae*).

Causative organisms may include:
- *Chlamydia trachomatis*
- *Mycoplasma genitalium*
- *Ureaplasma urealyticum*
- *Trichomonas vaginalis* (occasionally)
- Viruses: HSV, VZV, or Adenovirus

**Recommended Regimen**
- Doxycycline 100 mg PO bid for 7 days (A-I)
  - OR
- Azithromycin 1g PO as a single dose (A-I)

**Partners/Contacts**

All partners/contacts in the last 60 days should be tested and treated to cover for chlamydia.

Patients and their contacts should abstain from sexual activity until 7 days after initiation of treatment and be advised to avoid exposure to any untreated partner(s).
### Epididymitis

The BCCDC recommended regimen differs from the Canadian STI Guidelines treatment guidelines for Epididymitis.

<table>
<thead>
<tr>
<th>C. trachomatis and N. gonorrhoeae account for two-thirds of the epididymitis cases in men under 35 years of age. Coliform bacteria account for many epididymitis cases in men 35 years of age or older.</th>
</tr>
</thead>
</table>

#### Alternate treatment

**Levofloxacin 500 mg PO once daily for 10-14 days (B-II)**

**OR**

**Ciprofloxacin 500 mg PO bid x 10-14 days**

*(The alternate antibiotic treatments listed above will cover enteric organisms, but may not cover *N. gonorrhoeae* or *C. trachomatis.*)

### Considerations

- Consider non-infectious causes of scrotal pain and swelling *(i.e., trauma, tumors or testicular torsion).*
- Testicular torsion is a surgical emergency and needs to be considered with acute onset of testicular pain.

### Partners/Contacts

All partners in the last 60 days prior to symptom onset or date of diagnosis should be tested and treated for gonorrhea and chlamydia.

Patients and contacts should be advised to not have sexual activity for 7 days after initiation of treatment.

### Follow Up

Patients should be advised to be reassessed within 48 to 72 hours after diagnosis to ensure there has been an adequate response to treatment. If there has been no clinical improvement, refer to a urologist.

### Herpes Simplex Virus (Genital)

#### Recommended Regimen

**Primary/First Episode**

- Acyclovir 400 mg PO tid for 7 – 10 days (A-I)
  - OR
  - Famciclovir 250 mg PO tid for 5 – 7 days (A-I)
  - OR
  - Valacyclovir 1 g PO bid for 7 – 10 days (A-I)

**Recurrent Episodes (Episodic Therapy)**

- Acyclovir 400 mg PO tid for 5 days (A-I) or Acyclovir 800 mg PO tid for 2 days (C-I)
  - OR
  - Famciclovir 125 mg PO bid for 5 days or Famciclovir 1000 mg PO bid x 1 day (B-I)
  - OR
  - Valacyclovir 500 mg PO bid for 3 days or Valacyclovir 1 g PO OD for 3 days (B-I)

#### Suppressive Therapy

**Recurring outbreaks - 6 to 9 / year**

- Acyclovir 400 mg PO daily for 6 – 12 months (A-I)
  - OR
  - Famciclovir 250 mg PO daily for 6 – 12 months (A-I)
  - OR
  - Valacyclovir 500 mg PO once daily for 6 – 12 months (A-I)

**Recurring outbreaks - more than 10 / year**

- Valacyclovir 1 g PO daily for 6 – 12 months (A-I)

#### Considerations

- Oral acyclovir, famciclovir and valacyclovir are comparatively efficacious.
- Topical acyclovir is not effective for systemic symptoms, and should not be used for that purpose.
- A shorter course of acyclovir 800 mg PO tid for 48 hours appears as efficacious as the approved 5 day regimen.
- Start famciclovir preferably less than 6 hours and valacyclovir preferably less than 12 hours after the first symptoms appear.
- Patient-initiated therapy at the onset of prodromal symptoms has been proven to be effective.
- It is recommended that individuals have medications on hand and be provided with specific information on when to initiate treatment.
- Having genital herpes simplex (HSV) can increase the risk of acquiring and transmitting HIV.
- Physicians may order HSV-TSS *(type specific serology)* via LifeLabs although this is not covered by BC Medical Services Plan.

#### Partners/Contacts

Herpes is not a reportable infection.

Supportive counseling is an essential part of management and patients will need guidance on how they will inform present and/or future sexual partners.

Patients should be advised that even though transmission can occur in the absence of a lesion *(i.e., asymtomatic shedding)*, transmission is more likely to occur during an active outbreak.

Positive HSV education and public health messaging emphasizing genital herpes as a manageable, albeit a chronic infection, is important to help reduce stigma, lack of understanding and subsequent anxiety experienced by patients receiving a new genital herpes diagnosis.

Please refer to the following websites for genital HSV information:

- [www.bccdc.ca](http://www.bccdc.ca)
- CDC Manual, Chapter 5 – Non-certified STI DSTs
- [www.smartsexresource.com](http://www.smartsexresource.com)
Syphilis - *Treponema pallidum*  
REPORTABLE  
Contact the Provincial STI/HIV Physician for management, support and to order long acting (Bicillin LA) medication.

### Early Syphilis

**Primary**  
Symptoms can include chancre, and/or regional lymphadenopathy.

**Secondary**  
Symptoms can include rash, fever, malaise, lymphadenopathy, mucus lesions, condylomata lata, and/or alopecia.

**Early Latent**  
Asymptomatic and has had a negative syphilis test in the last year.

### Recommended Regimen

Benzathine penicillin G (i.e., Bicillin LA)  
2.4 million units in a single dose (A-I)  
*(Bicillin LA is administered in divided doses of 1.2 million units given IM into each buttock at the same visit.)*

### Alternate Treatment

**(if allergic to Penicillin)**  
Doxycycline 100 mg PO BID for 28 days (B-I)

### Partners/Contacts to Early Syphilis

Test all long term sexual partners and children (i.e., 18 years of age or younger) of an infected mother.

### Pregnancy/Lactation

- Please consult with Provincial STI/HIV Clinic Physician at 604.707.5606.
- All pregnant women should be screened for syphilis during the first trimester of pregnancy and repeated later in pregnancy for women with ongoing risk of syphilis exposure.

### Late Latent Syphilis

> 1 year duration or of unknown duration  
**OR**  
**Tertiary Syphilis**  
(cardiovascular and other syphilis not involving the central nervous system)

### Recommended Regimen

Benzathine penicillin G (Bicillin LA)  
2.4 million units given weekly for 3 weeks to a total of 7.2 million units  
*(Bicillin LA is administered in divided doses of 1.2 million units given IM into each buttock at the same visit.)*

### Alternate Treatment

*(if allergic to Penicillin)*  
Doxycycline 100 mg PO BID for 28 days (B-I)

### Partners/Contacts to Late Syphilis

Test all long term sexual partners and children (i.e., 18 years of age or younger) of an infected mother.

### Pregnancy/Lactation

- Please consult Provincial STI/HIV Clinic Physician at 604.707.5606  
- All pregnant women should be screened for syphilis during the first trimester of pregnancy and repeated later in pregnancy for women with ongoing risk of syphilis exposure.

### HIV and Syphilis Co-infections

Syphilis positive patients co-infected with HIV require syphilis serology every 3 months.

### Neurosyphilis

- Neurosyphilis symptoms can occur at any syphilis stage. It is usually seen in the late latent stage although recently some cases of neurosyphilis have been diagnosed in the secondary syphilis stage.
- When unexplained neurological symptoms are present (e.g., headaches, vertigo, ataxia, uveitis, retinitis, auditory symptoms such as hearing loss or tinnitus, meningitis, personality changes, and dementia), consider syphilis as a differential diagnosis and complete syphilis serology screening.
- Further testing and possible referral to an infectious disease specialist may be warranted.
- Please consult Provincial STI/HIV Clinic Physician at 604.707.5606 for management and treatment.

### EIA Syphilis Serology Algorithm

- In July 2014 the BC Public Health Microbiology Reference Laboratory, (BC-PHMRL) switched the preliminary screening test for syphilis from the Rapid Plasma Reagin (RPR) antibody test to an Enzyme Immunoassay (EIA), a *Treponema pallidum* specific antibody test.
- In most cases, *Treponema pallidum* antibodies persist for the life of a patient and therefore the EIA test will detect a greater number of old syphilis cases.
- The EIA treponeme-specific test is similar to the TPPA and FTA-Abs tests used for confirmatory syphilis testing.
- Confirmatory tests will no longer need to be ordered by a physician as they will be automatically done by the BC-PHMRL as appropriate.
- EIA testing allows for automated, high volume syphilis screening for BC residents.
- For more information contact the Provincial STI/HIV Clinic Physician at 604.707.5606
Testing and Management of Potential HIV Exposures

Probable low risk HIV exposure,
- test at 6 weeks post exposure
- re-test at 3 months

Recent high risk exposures or when HIV seroconversion is suspected,
- test soon as the patient presents
- indicate ‘Query Acute HIV’ on requisition as the laboratory may perform specific HIV tests if indicated

Point-of-care (POC) rapid tests for HIV antibodies are widely available.
- All positive HIV POC tests require confirmatory HIV testing

Post-exposure prophylaxis (PEP)
Antiretroviral therapy may be offered within 72 hours of a high risk exposure by contacting:
- BC Centre for Excellence in HIV/AIDS
  St. Paul's Hospital Pharmacy Accidental Exposure Program at 1.888.511.6222
  OR
  St. Paul's Hospital switchboard at 604.682.2344. Ask for the Infectious Disease physician on-call

Referral/Follow Up
Newly diagnosed HIV positive individuals often require specialized medical care including emotional and psychological support for their new diagnosis. Timely referral and follow up is recommended.

The MHO or the HIV-DN can provide assistance to clients and help arrange follow up and ongoing community support when requested. Please contact your local public health department.

Medical support is also available through:
- BC Centre for Excellence in HIV/AIDS: www.cfenet.ubc.ca/healthcare-resources.ca
- REACH (Rapid Expert Advice & Consultation for HIV): Toll free at 1.800.665.7677 or www.hivguide.ca
- BC Women's Hospital & Healthcare Centre
  Oak Tree Clinic - Providing Care to Women & Families Living with HIV/AIDS www.oaktreeclinic.bc.ca

Benefits of HIV Treatment
- Individuals may benefit from initiation of HIV as early as possible.
- Benefits include improvement to patient health and decreased risk of HIV transmission to sexual partners, known in BC as ‘Treatment as Prevention’ or TasP.
- Acute HIV infection is diagnosed by special laboratory testing and is supported by the BC Public Health Microbiology and Reference Laboratory (BC-PHMRL) at BCCDC.
- For questions please contact the Provincial STI/HIV Clinic Physician at 604.707.5606.
- HIV treatment and primary care resources can be found at the BC Centre for Excellence in HIV/AIDS www.cfenet.ubc.ca/therapeutic-guidelines

Pregnancy/Lactation
- HIV testing should be offered to all pregnant women as part of routine prenatal care.
- Antiretroviral therapy (ARV) is available, and significantly decreases the risk of mother-to-child transmission.
- Repeat testing later in pregnancy may be recommended if risk of exposure is high.
- HIV positive women are advised not to breastfeed, but rather to use formula or donated breast milk.
STI/HIV Resources

BCCDC Provincial STI/HIV Clinic
Clinical Prevention Services
655 West 12th Avenue
Vancouver, BC V5Z 4R4

General Inquires: 604.707.2400
Provincial STI/HIV Clinic Phone: 604.707.5600
Provincial STI/HIV Clinic Fax: 604.707.5604
Provincial STI/HIV Physician: 604.707.5606
Provincial STI/HIV Nurse: 604.707.5603

BC STI Treatment Guidelines and the
BC Physician STI Treatment Guideline Summary
(printable copy or updates) available at:
www.bccdc.ca

Public Health STI clinics, services, programs and
health files are available at:
www.bccdc.ca
www.smartsexresource.com

Health Authorities in BC

Fraser Health Authority
www.fraserhealth.ca

Interior Health Authority
www.interiorhealth.ca

Northern Health Authority
www.northernhealth.ca

Island Health Authority
www.viha.ca

Vancouver Coastal Health Authority
www.vch.ca

Provincial Health Services Authority
www.phsa.ca

First Nations Health Authority
www.fnha.ca