CALIFORNIA STI TREATMENT GUIDELINES TABLE FOR ADULTS & ADOLESCENTS

These guidelines reflect the 2021 CDC STI Treatment Guidelines for adults and adolescents who are HIV negative as well as those with HIV. Call the local health department for assistance with confidential notification of sexual partners of patients with STIs or HIV. For complex STI clinical management consultation (such as in cases of multiple allergies or treatment failure), contact the California Department of Public Health STD Control Branch via email (stdcb@cdph.ca.gov) or phone (510-620-3400) or submit your question online to the STD Clinical Consultation Network at www.stdccn.org. An ADA-compliant version of this document

INFECTION/DISEASE	RECOMMENDED REGIMENS	ALTERNATIVE REGIMENS: To be used if medical contraindication to recommended regimen.
CHLAMYDIA (CT)		
Urogenital/Rectal/Pharyngeal Infections	Doxycycline ¹ 100 mg po bid x 7 d	Azithromycin 1 g po x 1 dose OR Levofloxacin 500 mg po once daily x 7 d
Pregnant Patients ²	Azithromycin 1 g po x 1 dose	Amoxicillin 500 mg po tid x 7 d Amoxicillin 500 mg po tid x 7 d
GONORRHEA (GC): Mon	otherapy with IM ceftriaxone is recommended for all patients with gonorrhea, includ xycycline 100 mg po bid x 7 d for non-pregnant persons or azithromycin 1 g po x 1	ling pregnant patients. If co-infection with chlamydia
Urogenital/Rectal Infections ³	Ceftriaxone 500 mg IM x 1 dose for persons weighing <150 kg ⁴ OR	If cephalosporin allergy: dual therapy with
	Ceftriaxone 1 g IM x 1 dose for persons weighing ≥150 kg	Gentamicin ¹ 240 mg IM x 1 dose PLUS Azithromycin 2 g po x 1 dose If ceftriaxone not available or feasible, but no allergy concerns:
		• Cefixime 800 mg x 1 dose ⁵
Pharyngeal Infections ^{3,6}	Ceftriaxone 500 mg IM x 1 dose for persons weighing <150 kg Ceftriaxone 1 g IM x 1 dose for persons weighing ≥150 kg	No reliable treatment alternatives. Consult an infectious disease specialist or submit a question online at www.stdccn.org .
PELVIC INFLAMMATORY DISEASE (PID) ⁷ (Etiologies: CT, GC, anaerobes, possibly M. genitalium, others)	Parenteral Ceftriaxone 1 g IV q 24 hrs PLUS Doxycycline¹ 100 mg IV or po q 12 hrs PLUS Metronidazole 500 mg IV or po q 12 hrs OR Either Cefotetan 2 g IV q 12 h OR Cefoxitin 2 g IV q 6 h PLUS Doxycycline¹ 100 mg po or IV q 12 hrs IM/Oral Either Ceftriaxone 500 mg IM x 1 dose⁴ (or another 3 rd generation cephalosporin ⁸) OR Cefoxitin 2 g IM x 1 dose administered with Probenecid 1 g po x 1 dose PLUS Doxycycline¹ 100 mg po bid x 14 d WITH Metronidazole 500 mg po bid x 14 d	Parenteral • Ampicillin/Sulbactam 3 g IV q 6 hrs PLUS Doxycycline¹ 100 mg po or IV q 12 hrs OR • Clindamycin 900 mg IV q 8 hrs PLUS • Gentamicin¹ 2 mg/kg IV or IM x 1 as loading dose FOLLOWED BY • Gentamicin¹ 1.5 mg/kg IV or IM q 8 h as maintenand dose (or can substitute with Gentamicin¹ 3-5 mg/kg IM or IV 1x daily) IM/Oral³ • Either Levofloxacin 500 mg po daily OR Moxifloxact 400 mg po daily, WITH Metronidazole 500 mg po bid x 14 d OR • Azithromycin 500 mg IV daily x 1-2 doses followed by 250 mg po daily WITH Metronidazole 500 mg po bid x 12-14 d
CERVICITIS ¹⁰ (Etiologies: CT, GC, T. vaginalis, HSV, possibly M. genitalium)	Doxycycline ¹ 100 mg po bid x 7 d	Azithromycin 1 g po x 1 dose
NONGONOCOCCAL URETHRITIS (NGU) ¹⁰	Doxycycline ¹ 100 mg po bid x 7 d	Azithromycin 1 g po x 1 dose OR Azithromycin 500 mg po x 1 dose, then 250 mg po daily x 4 d
RECURRENT/ PERSISTENT NGU (Etiolgies: M. genitalium (MG), T.vaginalis, other bacteria)	1) Test for <i>M. genitalium (MG)</i> If MG test positive but resistance testing unavailable, use: • Doxycycline¹ 100 mg po bid x 7 d FOLLOWED BY • Moxifloxacin 400 mg po daily x 7 d If MG test positive and resistance testing is available, use: <i>Macrolide sensitive:</i> • Doxycycline¹ 100 mg po bid x 7 d FOLLOWED BY • Azithromycin 1 g po once, then 500 mg daily on next 3 d <i>Macrolide resistant:</i> • Doxycycline¹ 100 mg po bid x 7 d FOLLOWED BY • Moxifloxacin 400 mg po daily x 7 d 2) Test and treat presumptively for <i>T. vaginalis</i> in men who have sex with women (MSW) in areas where infection is prevalent • Metronidazole or Tinidazole 2 g po x 1 dose (applies to both medications)	For settings without MG resistance testing and when moxifloxacin cannot be used: • Doxycycline¹ 100 mg po bid x 7 d PLUS • Azithromycin 1 g po x 1 dose on first day FOLLOWED BY • Azithromycin 500 mg po once daily for 3 d AND • Perform a test of cure 21 d after treatment
PROCTITIS: (Etiologies: GC, CT including LGV, HSV, T. pallidum, possibly M. genitalium);	Ceftriaxone 500 mg IM x 1 dose for persons weighing <150 kg Ceftriaxone 1 g IM x 1 dose for persons weighing ≥150 kg PLUS Doxycycline¹ 100 mg po bid x 7 d¹¹	• None
LYMPHOGRANULOMA VENEREUM (LGV)	Doxycycline ¹ 100 mg po bid x 21 d	Azithromycin 1 g po once weekly x 3 weeks ¹² OR Erythromycin base 500 mg po qid x 21 d
TRICHOMONIASIS13 NOT	FE: Treatment recommendations do not vary by HIV status.	
TRICHOMONIASIS ¹³ NOT Cervicovaginal infection	TE: Treatment recommendations do not vary by HIV status. • Metronidazole 500 mg po bid x 7 d	• Tinidazole ¹⁴ 2 g po x 1 dose OR • Secnidazole ¹⁵ 2 g po x 1 dose

¹ Contraindicated for pregnant patients.

Safety in pregnancy has not been established, avoid during pregnancy. When using tinidazole, breastfeeding should be deferred for 72 hours after 2 g dose.
 Sprinkle oral granules on applesauce/yogurt/pudding before ingestion. Glass of water after dose can aid in swallowing. FDA-approved for treatment of trichomonas after the release of the CDC's 2021 STI Treatment Guidelines.



² Every effort should be made to use a recommended regimen. Test-of-cure follow-up with a nucleic acid amplification test (NAAT) 4 weeks after completion of therapy is recommended in

pregnancy.

³ See Gonorrhea Treatment Guidelines and Management of Suspected Treatment Failure

⁽https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/CAGCTreatmentFailureProtocol_Providers.pdf) if suspected GC treatment failure.

⁽https://www.capn.ca.gov/Programs/clib/bcb/cb/Prh%zbbocument%zbLibrary/CAGCT reatmentFailureProtocol_Providers.pdr) if suspected GC treatment failure.

4 For persons weighing ≥150 kg, use 1 gm IM ceftriaxone x 1 dose instead.

5 Oral cephalosporins give lower and less-sustained bactericidal levels than ceftriaxone. Cefixime should only be used when ceftriaxone is not available.

6 Test of cure by culture or NAAT is recommended 14 days after treatment of pharyngeal GC.

7 If parenteral therapy is selected initially, discontinue 24-48 hours after patient improves clinically and continue with either IM or oral therapy for a total of 14 days.

8 Other parenteral third-generation cephalosporin (e.g. cefotaxime or ceftizoxime) could be substituted for ceftriaxone.

9 If allergy to cephalosporins, can consider fluoroquinolones/azithromycin for PID treatment if community prevalence and individual risk of GC is low, and follow-up is assured. Obtain NAAT testing and GC culture before using fluoroquinolones/azithromycin freatment. testing and GC culture before using fluoroquinolone/azithromycin treatment.

10 If patient lives in community with high GC prevalence, or has risk factors (e.g. age <25 years, new partner, partner with concurrent sex partners, or sex partner with a STI), consider

empiric treatment for GC.

¹¹ Extend doxycycline course to 21 days to cover LGV if perianal or mucosal ulcers, bloody rectal discharge, or tenesmus and rectal CT positive. If perianal or mucosal ulcers present,

consider treating for HSV as well.

Decause this regimen has not been rigorously validated, consider a test of cure with CT NAAT four weeks after treatment.

For suspected drug-resistant trichomoniasis consult the 2021 CDC STI treatment guidelines, contact the CA STD Control Branch, or consult www.stdccn.org.

INFECTION/DISEASE	RECOMMENDED REGIMENS	ALTERNATIVE REGIMENS: To be used if medical contraindication to recommended regimen.	
BACTERIAL VAGINOSIS	Metronidazole 500 mg po bid x 7 d OR Metronidazole gel 0.75% one full applicator (5 g) intravaginally once daily x 5 d OR Clindamycin cream 2% one full applicator (5 g) intravaginally qhs x 7 d	Tinidazole ¹⁴ 2 g po daily x 2 d OR Tinidazole ¹⁴ 1 g po daily x 5 d OR Secnidazole ¹⁵ 2 g po x 1 dose OR Clindamycin 300 mg po bid x 7 d OR Clindamycin ovules ¹⁶ 100mg intravaginally qhs x 3 d	
EPIDIDYMITIS	If likely due to GC or CT Ceftriaxone 500 mg IM x 1 dose ⁴ PLUS Doxycycline 100 mg po bid x 10 d If likely due to GC, CT or enteric organisms (history of insertive anal sex) Ceftriaxone 500 mg IM x 1 dose ⁴ PLUS Levofloxacin 500 mg po daily x 10 d	• None	
	If most likely due to enteric organisms alone (GC and CT tests negative) Levofloxacin ¹⁷ 500 mg po daily x 10 d		
ANOGENITAL WARTS			
External Genital/Perianal Warts	Patient-Applied Imiquimod 18,19 5% cream topically qhs 3x/wk up to 16 wks OR Imiquimod 18,19 3.75% cream topically qhs for up to 8 wks OR Podofilox 0.5% solution or gel topically bid x 3 d then 4 d off, repeat up to 4 cycles OR Sinecatechins 18 15% ointment topically tid for up to 16 wks Provider-Administered Cryotherapy with liquid nitrogen, apply once q1-2 wks OR Trichloroacetic acid (TCA) 80%-90%, apply once q 1-2 wks OR Bichloroacetic acid (BCA) 80%-90%, apply once q 1-2 wks OR Surgical removal	Alternative Regimen – (fewer data available) Provider Administered • Podophyllin resin ²⁰ 10-25% in tincture of benzoin, applied weekly PRN OR • Intralesional interferon OR • Photodynamic therapy OR • Topical cidofovir	
Mucosal Genital Warts	Urethral meatus, Vaginal, Cervical, Intra-Anal Cryotherapy ²¹ with liquid nitrogen OR Surgical removal OR Vaginal, Cervical, Intra-anal TCA or BCA 80-90%	• None	
ANOGENITAL HERPES	TCA UI BCA 60-90%		
First Clinical Episode of Herpes ²²	Acyclovir 400 mg po tid x 7-10 d OR Valacyclovir 1 g po bid x 7-10 d OR Famciclovir 250 mg po tid x 7-10 d	• None	
Daily Suppressive Therapy for Recurrences (if no HIV co-infection)	Acyclovir 400 mg po bid OR Valacyclovir 500 mg po daily ²³ OR Valacyclovir 1 g po daily OR Famciclovir ²⁴ 250 mg po bid		
Daily Suppressive Therapy in Pregnant Patients (start at 36 weeks gestation)	Acyclovir 400 mg po tid OR Valacyclovir 500 mg po bid		
Episodic Therapy for Recurrences (If no HIV co- infection)	Acyclovir 800 mg po bid x 5 d OR Acyclovir 800 mg po tid x 2 d OR Valacyclovir 500 mg po bid x 3 d OR Valacyclovir 500 mg po bid x 3 d OR Valacyclovir 1 g po daily x 5 d OR Famciclovir 1 gm po bid x 1 d OR Famciclovir 500 mg po once, then 250 mg po bid x 2 d OR Famciclovir 125 mg po bid x 5 d		
Persons with HIV ²⁵			
Daily Suppressive Therapy	Acyclovir 400-800 mg po 2-3 times daily OR Valacyclovir 500 mg po bid OR Famciclovir ²⁴ 500 mg po bid	• None	
Episodic Therapy for Recurrences	Acyclovir 400 mg po tid x 5-10 d OR Valacyclovir 1 gm po bid x 5-10 d OR Famciclovir 500 mg po bid x 5-10 d		
	nt recommendations do not vary by HIV status.	77.400	
Primary, Secondary, and Early Latent	Benzathine penicillin G 2.4 million units IM x 1 dose	Doxycycline ²⁷ 100 mg po bid x 14 d OR Tetracycline ²⁷ 500 mg po qid x 14 d OR Ceftriaxone ²⁷ 1 g IM or IV daily x 10-14 d	
Late Latent or Syphilis of Unknown Duration OR Tertiary Syphilis with normal CSF	Benzathine penicillin G 7.2 million units total, administered as 3 doses of 2.4 million units IM each at 1 week intervals ²⁸	Doxycycline ²⁷ 100 mg po bid x 28 d OR Tetracycline ²⁷ 500 mg po qid x 28 d	
Neurosyphilis and Ocular Syphilis ²⁹	Aqueous crystalline penicillin G 18-24 million units daily, administered as 3-4 million units IV q 4 hrs or as continuous infusion x 10-14 d	Procaine penicillin G 2.4 million units IM daily x 10-14 d PLUS Probenecid 500 mg po qid x 10-14 d OR, in the setting of severe penicillin allergy Ceftriaxone ²⁷ 1-2 gm IM or IV daily x 10-14 d	
Pregnant Patients ³⁰ NOTE: Pregnant Primary, Secondary, and Early	gnant patients who miss any dose of therapy must repeat full course of treatment. • Benzathine penicillin G 2.4 million units IM x 1 dose ³¹	• None	
Latent		- inone	
Late Latent or Syphilis of Unknown Duration OR Tertiary Syphilis with normal CSF	Benzathine penicillin G 7.2 million units total, administered as 3 doses of 2.4 million units IM each, at 1-week intervals ³²	• None	
Neurosyphilis and Ocular Syphilis ²⁹	Aqueous crystalline penicillin G 18-24 million units daily, administered as 3-4 million units IV q 4 hrs or as continuous infusion x 10-14 d	Procaine penicillin G 2.4 million units IM daily x 10-14 d PLUS Probenecid 500 mg po qid x 10-14 d	

¹⁶ Clindamycin ovules may weaken latex or rubber products (such as condoms and diaphragms). Use of such products within 72 hours following use of clindamycin ovules is not

End concern for resistance based on persistent HSV lesions, obtain a viral isolate for sensitivity lesing. Consultation with an infectious usease expension recommended.

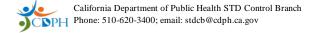
Benzathine penicillin G is available in only one long-acting formulation, Bicillin® L-A (the trade name), which contains only benzathine penicillin G. Other combination products, such as Bicillin® C-R, contain both long- and short-acting penicillins and are not effective for treating syphilis.

Alternative regimens should be used only for penicillin-allergic patients. If compliance or follow-up cannot be ensured, the patient should be desensitized and treated with benzathine

penicillin.

28 In non-pregnant patients, pharmacologic considerations reveal an interval of 7-9 days is ideal.

In non-pregnant patients, pnarmacologic considerations reveal an interval or 7-9 days is ideal.
 Some specialists recommend 2.4 million units of benzathine penicillin G once weekly for 1 to 3 weeks immediately after completion of neurosyphilis treatment.
 Pregnant patients allergic to penicillin should be desensitized and treated with penicillin. There are no alternatives.
 For early syphilis, many experts give a 2nd dose of benzathine penicillin G 2.4 million units IM one week after the initial dose.
 The optimal treatment interval in pregnancy is 7 days. If treatment occurs outside of 6-8-day intervals, the full treatment course should be restarted.







Tonorrhea should be ruled out prior to starting a fluroquinolone-based regimen.

May weaken condoms and vaginal diaphragms. Advise patients to follow package insert directions carefully. Imiquimod users was harea 6-10 hours after application. Sinecatechin cintment should not be washed off.

¹⁹ Limited human data on imiquimod use in pregnancy; animal data suggest low risk.
20 Podophyllin resin is an alternative rather than recommended regimen due to reports of severe toxicity. The safety of podophyllin in pregnancy has not been established. Podophyllin resin is an alternative rather than recommended regimen **due to reports or severe toxicity**. The safety of podophyllin in pregnancy has not been established a cryoprobe in the vagina is not advised due to risk of vaginal perforation and fistula formation.

Treatment can be extended if healing is incomplete after 10 days of antiviral therapy.

Consider high dose valacyclovir (1 gm daily) or acyclovir in people who have frequent recurrences (i.e., 10 or more episodes annually).

Famciclovir is somewhat less effective for suppression of viral shedding.

If concern for resistance based on persistent HSV lesions, obtain a viral isolate for sensitivity testing. Consultation with an infectious disease expert is recommended.

Repozathing penicillin G is available in only one long-acting formulation. Bicillin® L-A (the trade name), which contains only benzathine penicillin G. Other combination