

Summary of CDC STI Treatment Guidelines, 2021

This wall chart reflects recommended regimens found in CDC's Sexually Transmitted Infections Treatment Guidelines, 2021. This summary is intended as a source of clinical guidance. When more than one therapeutic regimen is recommended, the sequence is in alphabetical order unless the choices for therapy are prioritized based on efficacy, cost, or convenience. The recommended regimens should be used primarily; alternative regimens can be considered in instances of substantial drug allergy or other contraindications. An important component of STI treatment is partner management. Providers can arrange for the evaluation and treatment of sex partners either directly or with assistance from state and local health departments. Complete guidelines can be found online at www.cdc.gov/std/treatment.

DISEASE	RECOMMENDED REGIMEN	ALTERNATIVE REGIMEN
Bacterial Vaginosis	metronidazole 500 mg orally 2x/day for 7 days OR metronidazole gel 0.75%, one 5 gm applicator intravaginally, 1x/day for 5 days OR clindamycin cream 2%, one 5 gm applicator intravaginally, at bedtime for 7 days	clindamycin 300 mg orally 2x/day for 7 days OR clindamycin ointment 100 mg intravaginally at bedtime for 3 days ¹ OR secnidazole 2 gm orally in a single dose ² OR tinidazole 2 gm orally 1x/day for 2 days OR tinidazole 1 gm orally 1x/day for 5 days
Cervicitis ³	doxycycline 100 mg orally 2x/day for 7 days	azithromycin 1 gm orally in a single dose
Chlamydial Infections		
Adults and adolescents	doxycycline 100 mg orally 2x/day for 7 days	azithromycin 1 gm orally in a single dose OR levofloxacin 500 mg orally 1x/day for 7 days
Pregnancy	azithromycin 1 gm orally in a single dose	amoxicillin 500 mg orally 1x/day for 7 days
Infant and children <45 kg ⁴ (nasopharynx, urogenital, and rectal)	erythromycin base, 50 mg/kg body weight/day orally, divided into 4 doses daily for 14 days OR erythromycin, 50 mg/kg body weight/day orally, divided into 4 doses daily for 14 days	
Children who weigh ≥45 kg, but who are aged ≤8 years (nasopharynx, urogenital, and rectal)	azithromycin 1 gm orally in a single dose	
Children aged ≥8 years (nasopharynx, urogenital, and rectal)	azithromycin 1 gm orally in a single dose OR doxycycline 100 mg orally 2x/day for 7 days	azithromycin 1 gm orally in a single dose
Neonate ⁵ : ophthalmia and pneumonia	erythromycin base, 50 mg/kg body weight/day orally, divided into 4 doses daily for 14 days OR erythromycin, 50 mg/kg body weight/day orally, divided into 4 doses daily for 14 days	azithromycin suspension 20 mg/kg body weight/day orally, 1x/day for 3 days
Epididymitis		
For acute epididymitis most likely caused by sexually transmitted chlamydia and gonorrhea	ceftriaxone 500 mg IM in a single dose ⁶ PLUS doxycycline 100 mg orally 2x/day for 10 days	
For acute epididymitis most likely caused by chlamydia, gonorrhea, or fecal organisms (men who practice insertive anal sex)	ceftriaxone 500 mg IM in a single dose ⁶ PLUS levofloxacin 500 mg orally 1x/day for 10 days	
For acute epididymitis most likely caused by fecal organisms only	levofloxacin 500 mg orally 1x/day for 10 days	
Genital Herpes Simplex		
First clinical episode of genital herpes ⁷	acyclovir 400 mg orally 3x/day for 7–10 days ⁸ OR famciclovir 250 mg orally 3x/day for 7–10 days OR valacyclovir 1 gm orally 2x/day for 7–10 days	
Suppressive therapy for recurrent genital herpes (HSV-2) ⁹	acyclovir 400 mg orally 2x/day OR valacyclovir 500 mg orally 1x/day OR famciclovir 1 gm orally 1x/day OR famciclovir 250 mg orally 2x/day	
Episodic therapy for recurrent genital herpes (HSV-2) ¹⁰	acyclovir 800 mg orally 2x/day for 5 days OR acyclovir 800 mg orally 3x/day for 2 days OR famciclovir 1 gm orally 2x/day for 1 day OR famciclovir 500 mg once, FOLLOWED BY 250 mg 2x/day for 2 days OR famciclovir 125 mg 2x/day for 5 days OR valacyclovir 500 mg orally 2x/day for 3 days OR valacyclovir 1 gm orally 1x/day for 5 days	
Daily suppressive therapy for persons with HIV infection	acyclovir 400–800 mg orally 2x–3x/day OR famciclovir 500 mg orally 2x/day OR valacyclovir 500 mg orally 2x/day	
Episodic therapy for persons with HIV infection	acyclovir 400 mg orally 3x/day for 5–10 days OR famciclovir 500 mg orally 2x/day for 5–10 days OR valacyclovir 1 gm orally 2x/day for 5–10 days	
Daily suppressive therapy of recurrent genital herpes in pregnant women ¹¹	acyclovir 400 mg orally 3x/day OR valacyclovir 500 mg orally 2x/day	
Genital Warts (Human Papillomavirus)		
External anogenital warts ¹²	Patient-applied: imiquimod 3.75% or 5% cream ¹³ OR podofilox 0.5% solution or gel OR sinecatechins 15% ointment ¹⁴ Provider-administered: cryotherapy with liquid nitrogen or cryoprobe OR surgical removal either by tangential scissor excision, tangential shave excision, curettage, laser, or electrocautery OR trichloroacetic acid (TCA) or bichloroacetic acid (BCA) 80%–90% solution	
Unanal meatus warts	cryotherapy with liquid nitrogen OR surgical removal	
Vaginal warts, ¹⁴ Cervical warts, ¹⁵ Intra-anal warts ¹⁶	cryotherapy with liquid nitrogen OR surgical removal OR TCA or BCA 80%–90% solution	
Gonococcal Infections		
Uncomplicated infections of the cervix, urethra, and rectum: adults and adolescents <150 kg ¹⁷	ceftriaxone 500 mg IM in a single dose ¹⁷	
Uncomplicated infection of the pharynx: adults and adolescents <150 kg ¹⁷	ceftriaxone 500 mg IM in a single dose ¹⁷	
Pregnancy	ceftriaxone 500 mg IM in a single dose ¹⁷	
Conjunctivitis	ceftriaxone 1 gm IM in a single dose ¹⁸	
Disseminated gonococcal infections (DGI) ¹⁹	ceftriaxone 1 gm IM or by IV every 24 hours ¹⁷	ceftazidime 1 gm by IV every 8 hours OR ceftriaxone 1 gm every 8 hours
Uncomplicated gonococcal vulvovaginitis, cervicitis, urethritis, pharyngitis, or proctitis: infants and children ≤45 kg	ceftriaxone 25–50 mg/kg body weight by IV or IM in a single dose, not to exceed 250 mg IM	
Uncomplicated gonococcal vulvovaginitis, cervicitis, urethritis, pharyngitis, or proctitis: children >45 kg	Treat with the regimen recommended for adults (see above)	
Ocular prophylaxis in neonates	erythromycin (0.5%) ophthalmic ointment in each eye in a single application at birth	
Ophthalmia in neonates and infants	ceftriaxone 25–50 mg/kg body weight by IV or IM in a single dose, not to exceed 250 mg	For neonates unable to receive ceftriaxone due to simultaneous administration of intravenous calcium: ceftazidime 100 mg/kg body weight by IV or IM as a single dose

DISEASE	RECOMMENDED REGIMEN	ALTERNATIVE REGIMEN
Lymphogranuloma Venereum	doxycycline 100 mg orally 2x/day for 21 days	azithromycin 1 gm orally 1x/week for 3 weeks ²⁰ OR azithromycin base 500 mg orally 4x/day for 21 days
Nongonococcal Urethritis (NGU)	doxycycline 100 mg orally 2x/day for 7 days	azithromycin 1 gm orally in a single dose OR azithromycin 500 mg orally in a single dose, THEN 250 mg 1x/day for 4 days
Persistent or Recurrent NGU: test for Mycoplasma genitalium:		
If <i>M. genitalium</i> resistance testing is unavailable but <i>M. genitalium</i> is detected by an FDA-cleared NAAT	doxycycline 100 mg orally 2x/day for 7 days, FOLLOWED BY moxifloxacin 400 mg 1x/day for 7 days	For settings without resistance testing and when moxifloxacin cannot be used: doxycycline 100 mg orally 2x/day for 7 days, FOLLOWED BY azithromycin 1 gm orally on first day, FOLLOWED BY azithromycin 500 mg orally 1x/day for 3 days and a test-of-cure 21 days after completion of therapy
If resistance testing is available, use resistance-guided therapy		
Macrolide sensitive	doxycycline 100 mg orally 2x/day for 7 days, FOLLOWED BY azithromycin 1 gm orally initial dose, FOLLOWED BY azithromycin 500 mg orally 1x/day for 3 additional days (2.5 gm total)	
Macrolide resistance	doxycycline 100 mg orally 2x/day for 7 days, FOLLOWED BY moxifloxacin 400 mg orally 1x/day for 7 days	
Test for <i>Trichomonas vaginalis</i> in heterosexual men in areas where infection is prevalent	metronidazole 2 gm orally in a single dose OR tinidazole 2 gm orally in a single dose	
Pediculosis Pubis	permethrin 1% cream/rinse applied to affected areas, wash after 10 minutes OR pyrethrin with piperonyl butoxide applied to affected areas, wash after 10 minutes	malathion 0.5% lotion applied to affected areas, wash after 8–12 hours OR ivermectin 250 µg/kg body weight repeated in 7–14 days
Pelvic Inflammatory Disease		
Parenteral treatment:	ceftriaxone 1 gm by IV every 24 hours PLUS doxycycline 100 mg orally or by IV every 12 hours PLUS metronidazole 500 mg orally or by IV every 12 hours OR cefotetan 2 gm by IV every 12 hours PLUS doxycycline 100 mg orally or by IV every 12 hours OR cefotaxime 2 gm by IV every 6 hours PLUS doxycycline 100 mg orally or by IV every 12 hours	ampicillin-sulbactam 3 gm by IV every 6 hours PLUS doxycycline 100 mg orally or by IV every 12 hours OR cindamycin 900 mg by IV every 8 hours PLUS pentamidine 2 mg/kg body weight by IV or IM FOLLOWED BY 1.5 mg/kg body weight every 8 hours. Can substitute with 3–5 mg/kg body weight 1x/day
Intramuscular or oral treatment:	ceftriaxone 500 mg IM in a single dose ⁶ PLUS doxycycline 100 mg orally 2x/day for 14 days WITH metronidazole 500 mg orally 2x/day for 14 days OR cefotaxime 2 gm IM in a single dose AND probenecid 1 gm orally administered concurrently in a single dose PLUS doxycycline 100 mg orally 2x/day for 14 days WITH metronidazole 500 mg orally 2x/day for 14 days OR Other parenteral third-generation cephalosporin (e.g., cefazoxime or cefotaxime) PLUS doxycycline 100 mg orally 2x/day for 14 days WITH metronidazole 500 mg orally 2x/day for 14 days	
The complete list of recommended regimens can be found in Sexually Transmitted Infections Treatment Guidelines, 2021.		
Scabies	permethrin 5% cream applied to all areas of the body (from neck down), wash after 8–14 hours ²¹ OR ivermectin 200 µg/kg body weight orally, repeated in 14 days ²² OR ivermectin 1% lotion applied to all areas of the body (from neck down), wash after 8–14 hours	iodine 1% 1 oz of lotion or 30 gm of cream applied thinly to all areas of the body (from neck down), wash after 8 hours ²³
Syphilis ²⁴		
Primary, secondary, and early latent: adults (including pregnant women and people with HIV infection)	benzathine penicillin G 2.4 million units IM in a single dose	
Late latent adults (including pregnant women and people with HIV infection)	benzathine penicillin G 7.2 million units total, administered as 3 doses of 2.4 million units IM each at 1-week intervals	
Neurosyphilis, ocular syphilis, and otosyphilis	aqueous crystalline penicillin G 18–24 million units per day, administered as 3–4 million units by IV every 4 hours or continuous infusion, for 10–14 days	procaine penicillin G 2.4 million units IM 1x/day PLUS probenecid 500 mg orally 4x/day, both for 10–14 days
For children or congenital syphilis	See Sexually Transmitted Infections Treatment Guidelines, 2021.	
Trichomoniasis ²⁵		
Women	metronidazole 500 mg orally 2x/day for 7 days	tinidazole 2 gm orally in a single dose
Men	metronidazole 2 gm orally in a single dose	tinidazole 2 gm orally in a single dose
1. <i>Clinician</i> ointments areфтrogenase base that might weaken latex or rubber products (e.g., condom and diaphragm); use of such products within 72 hours following treatment with <i>Clinician</i> ointments is not recommended.		
2. Oral granules should be sprinkled onto unsweetened applesauce, yogurt, or pudding before ingestion. A glass of water can be taken after administration to aid in swallowing.		
3. Consider concurrent treatment for gonococcal infection if the patient is at risk for gonorrhea or lives in a community where the prevalence of gonorrhea is high (per Centers for Disease Control and Prevention [CDC] Sexually Transmitted Diseases Treatment Guidelines, 2021).		
4. Data are limited regarding the effectiveness and optimal dose of aztreonam for treating chlamydia infection among infants and children who weigh <65 kg.		
5. An association between oral erythromycin and azithromycin and infant hypothyroidism (IH) has been reported among infants aged <30 weeks. Infants treated with either of these antibiotics should be followed for IH signs and symptoms.		
6. For persons weighing ≥150 kg, 1 gm ceftriaxone should be administered.		
7. Treatment can be extended if healing is incomplete after 10 days of therapy.		
8. Valacyclovir 500 mg once a day might be less effective than other valacyclovir or acyclovir dosing regimens for persons who have frequent recurrences (i.e., >10 episodes/year).		
9. Acyclovir 400 mg orally three times/day is also effective but is not recommended because of frequency of dosing.		
10. Treatment recommendations starting at 26 weeks' gestation. (Source: American College of Obstetricians and Gynecologists. Clinical management guidelines for obstetrician-gynecologists: Management of herpes in pregnancy. ACOG Practice Bulletin No. 62. <i>Obstet Gynecol</i> 2007;109:149–60.)		
11. Persons with external and/or perirectal warts might also have intra-anal warts. Thus, persons with external anal warts might benefit from an inspection of the anal canal by digital examination, standard anoscopy, or high-resolution anoscopy.		
12. Might weaken condoms and vaginal diaphragms.		
13. The use of a cryoprobe in the vagina is not recommended because of the risk for vaginal perforation and fistula formation.		
14. Management of cervical warts should include consultation with a specialist. For women who have exophytic cervical warts, a biopsy evaluation to exclude high-grade squamous intraepithelial lesion should be performed before treatment or ablation.		
15. Management of intra-anal warts should include consultation with a specialist.		
16. If chlamydia infection has not been excluded, treat for chlamydia with doxycycline 100 mg orally twice daily for 7 days (if pregnant, treat with azithromycin 1 gm orally in a single dose).		
17. Previous should consider one-time range of the infected eye with same solution.		
18. When treating for the uveitis–dermatitis syndrome, the provider can switch to an oral agent guided by antimicrobial susceptibility testing (AST) 24–48 hours after substantial clinical improvement, for a total treatment course of at least 7 days.		
19. Because this regimen has not been evaluated rigorously, a test-of-cure with chlamydia immunoassay nucleic acid amplification test (NAAT) 4 weeks after completion of treatment can be considered.		
20. Infants and young children (aged <5 years) should be treated with permethrin.		
21. Oral ivermectin has limited oral activity; a second dose is required to cure.		
22. Infants and children aged <10 years should not be treated with ivermectin.		
23. The complete list of recommendations on treating syphilis among people with HIV infection and pregnant women, as well as dosages of alternative therapy in people with penicillin allergy, can be found in Sexually Transmitted Infection Treatment Guidelines, 2021.		
24. For management of persistent or recurrent infection, refer to Sexually Transmitted Infection Treatment Guidelines, 2021.		
25. For management of persistent or recurrent infection, refer to Sexually Transmitted Infection Treatment Guidelines, 2021.		
Accessible version: https://www.cdc.gov/std/treatment-guidelines/default.htm		



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