## **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 <a href="https://www.cdc.gov/std/treatment">www.cdc.gov/std/treatment</a>.

DISEASE	RECOMMENDED REGIMEN	ALTERNATIVE REGIMEN
Bacterial Vaginosis	<ul> <li>metronidazole 500 mg orally 2x/day for 7 days</li> <li>OR metronidazole gel 0.75%, one 5 gm applicator intravaginally, 1x/day for 5 days</li> <li>OR clindamycin cream 2%, one 5 gm applicator intravaginally, at bedtime for 7 days</li> </ul>	clindamycin 300 mg orally 2x/day for 7 days  OR clindamycin ovules 100 mg intravaginally at bedtime for 3 days¹  OR secnidazole 2 gm orally in a single dose²  OR tinidazole 2 gm orally 1x/day for 2 days  OR tinidazole 1 gm orally 1x/day for 5 days
Cervicitis <sup>3</sup>	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 Infant and children <45 kg <sup>4</sup> (nasopharynx,	azithromycin 1 gm orally in a single dose erythromycin base, 50 mg/kg body weight/day	amoxicillin 500 mg orally 3x/day for 7 days
urogenital, and rectal)	orally, divided into 4 doses daily for 14 days  OR ethylsuccinate, 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	
Neonates:5 ophthalmia and pneumonia	erythromycin base, 50 mg/kg body weight/day orally, divided into 4 doses daily for 14 days OR ethylsuccinate, 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 <sup>6</sup> <b>PLUS</b> doxycycline 100 mg orally 2x/day for 10 days	
For acute epididymitis most likely caused by chlamydia, gonorrhea, or enteric organisms (men who practice insertive anal sex)	ceftriaxone 500 mg IM in a single dose <sup>6</sup> <b>PLUS</b> levofloxacin 500 mg orally 1x/day for 10 days	
For acute epididymitis most likely caused by enteric organisms only	levofloxacin 500 mg orally 1x/day for 10 days	
Genital Herpes Simplex	and the 100 marks to 100 marks	
First clinical episode of genital herpes <sup>7</sup>	acyclovir 400 mg orally 3x/day for 7–10 days  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)	acyclovir 400 mg orally 2x/day  OR valacyclovir 500 mg orally 1x/day  OR valacyclovir 1 gm orally 1x/day  OR famciclovir 250 mg orally 2x/day	
Episodic therapy for recurrent genital herpes (HSV-2) <sup>10</sup>	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 19m orally 1x/day for 3 days  acyclovir 400-800 mg orally 2x/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 <sup>11</sup>	acyclovir 400 mg orally 3x/day  OR valacyclovir 500 mg orally 2x/day	
Genital Warts (Human	on valueyelevil eee mg erany 200 day	
Papillomavirus) External anogenital warts <sup>12</sup>	Patient-applied imiquimod 3.75% or 5% cream <sup>13</sup> OR podofilox 0.5% solution or gel  OR sinecatechins 15% ointment <sup>13</sup> Provider-administered cryotherapy with liquid nitrogen or cryoprobe  OR surgical removal either by tangential scissor excision, tangential shave excision, curettage, laser, or electrosurgery  OR trichloroacetic acid (TCA) or bichloroacetic acid (BCA) 80%-90% solution	
Urethral meatus warts	cryotherapy with liquid nitrogen  OR surgical removal	
Vaginal warts, <sup>14</sup> Cervical warts, <sup>15</sup> Intra-anal warts <sup>16</sup>	cryotherapy with liquid nitrogen  OR surgical removal	
Gonococcal Infections	OR TCA or BCA 80%–90% solution	
Uncomplicated infections of the cervix, urethra, and rectum: adults and adolescents <150 kg <sup>6</sup>	ceftriaxone 500 mg IM in a single dose <sup>17</sup>	If cephalosporin allergy:     gentamicin 240 mg IM in a single dose <b>PLUS</b> azithromycin 2 gm orally in a single dose  If ceftriaxone administration is not available or not feasible:     cefixime 800 mg orally in a single dose <sup>17</sup>
Uncomplicated infection of the pharynx: adults and adolescents <150 kg <sup>6</sup>	ceftriaxone 500 mg IM in a single dose <sup>17</sup>	_ , , , , , , , , , , , , , , , , , , ,
Pregnancy Conjunctivitis	ceftriaxone 500 mg IM in a single dose <sup>17</sup> ceftriaxone 1 gm IM in a single dose <sup>18</sup>	
Disseminated gonococcal infections (DGI) <sup>19</sup>	ceftriaxone 1 gm IM or by IV every 24 hours <sup>17</sup>	cefotaxime 1 gm by IV every 8 hours  OR ceftizoxime 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  Ocular prophylaxis in neonates	Treat with the regimen recommended for adults (see above)  erythromycin (0.5%) ophthalmic ointment in each	
	eye in a single application at birth  ceftriaxone 25–50 mg/kg body weight by IV or	For neonates unable to receive ceftriaxone due to
Ophthalmia in neonates and infants	ceπnaxone 25–50 mg/kg body weight by iv or IM in a single dose, not to exceed 250 mg	simultaneous administration of intravenous calcium: cefotaxime 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 <sup>20</sup> OR erythromycin 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, THE 250 mg 1x/day for 4 days
Persistent or Recurrent NGU: test for <i>Mycop</i>	lasma 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, <b>FOLLOWED BY</b> moxifloxacin 400 mg 1x/day for 7 days	For settings without resistance testing and when moxifloxacin cannot be used: doxycycline 100 mg 2x/day for 7 days <b>PLUS</b> azithromycin 1 gm on first day <b>PLUS</b> azithromycin 500 mg 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 initial dose, THEN azithromycin 500 mg 1x/day for 3 additional days (2.5 gm total) Macrolide resistance doxycycline 100 mg orally 2x/day for 7 days, FOLLOWED BY moxifloxicin 400 mg 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 <b>PLUS</b> doxycycline 100 mg orally or by IV every 12 hours <b>PLUS</b> metronidazole 500 mg orally or by IV every 12 hours <b>OR</b> cefotetan 2 gm by IV every 12 hours <b>PLUS</b> doxycycline 100 mg orally or by IV every 12 hours <b>OR</b> cefoxitin 2 gm by IV every 6 hours <b>PLUS</b> 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 clindamycin 900 mg by IV every 8 hours PLUS gentamicin 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 <sup>6</sup> PLUS doxycycline 100 mg orally 2x/day for 14 days WITH metronidazole 500 mg orally 2x/day for 14 days  OR cefoxitin 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., ceftizoxime 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	s can be found in Sexually Transmitted Infections Treatme	ent Guidelines, 2021.
Scabies	permethrin 5% cream applied to all areas of the body (from neck down), wash after 8–14 hours <sup>21</sup> OR ivermectin 200ug/kg body weight orally, repeated in 14 days <sup>22</sup> OR ivermectin 1% lotion applied to all areas of the body (from neck down), wash after 8–14 hours; repeat treatment in 1 week if symptoms persist	lindane 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 <sup>23</sup>
Syphilis <sup>24</sup>		
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 <b>PLUS</b> probenecid 500 mg orally 4x/day, both for 10–14 days
For children or congenital syphilis	See Sexually Transmitted Infections Treatment Guidelines, 2021.	
Trichomoniasis <sup>25</sup>		
Women	metronidazole 500 mg orally 2x/day for 7 days	tinidazole 2 gm orally in a single dose

- 1. Clindamycin ovules use an oleaginous base that might weaken latex or rubber products (e.g., condoms and diaphragms). Use of such products within 72 hours following treatment with clindamycin
- 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 (see Gonorrhea section).

metronidazole 2 gm orally in a single dose

- 4. Data are limited regarding the effectiveness and optimal dose of azithromycin for treating chlamydial infection among infants and children who weigh <45 kg.
- 5. An association between oral erythromycin and azithromycin and infantile hypertrophic pyloric stenosis (IHPS) has been reported among infants aged <6 weeks. Infants treated with either of these
- antimicrobials should be followed for IHPS 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. Acyclovir 200 mg orally five times/day is also effective but is not recommended because of the frequency of dosing. 9. 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).
- 11. Treatment recommended starting at 36 weeks' gestation. (Source: American College of Obstetricians and Gynecologists. Clinical management guidelines for obstetrician-gynecologists.
- 10. Acyclovir 400 mg orally three times/day is also effective but is not recommended because of frequency of dosing.
- Management of herpes in pregnancy. ACOG Practice Bulletin No. 82. Obstet Gynecol 2007;109:1489–98.)
- 12. Persons with external anal or peri-anal 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.
- 13. Might weaken condoms and vaginal diaphragms.

Men

- 14. The use of a cryoprobe in the vagina is not recommended because of the risk for vaginal perforation and fistula formation.
- 15. 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 is initiated.
- 16. Management of intra-anal warts should include consultation with a specialist.
- 17. If chlamydial infection has not been excluded, treat for chlamydia with doxycycline 100 mg orally two times/day for 7 days.
- 18. Providers should consider one-time lavage of the infected eye with saline solution.
- 19. When treating for the arthritis-dermatitis syndrome, the provider can switch to an oral agent guided by antimicrobial susceptibility testing (AST) 24–48 hours after substantial clinical improvement,
- 20. Because this regimen has not been validated rigorously, a test-of-cure with Chlamydia trachomatis nucleic acid amplification test (NAAT) 4 weeks after completion of treatment can be considered.
- 21. Infants and young children (aged <5 years) should be treated with permethrin.
- 22. Oral ivermectin has limited ovicidal activity; a second dose is required for cure.
- 23. Infants and children aged <10 years should not be treated with lindane.
- 24. The complete list of recommendations on treating syphilis among people with HIV infection and pregnant women, as well as discussion of alternative therapy in people with penicillin allergy, can be found in Sexually Transmitted Infections Treatment Guidelines, 2021.
- 25. For management of persistent or recurrent infection, refer to Sexually Transmitted Infections Treatment Guidelines, 2021.

Accessible version: <a href="https://www.cdc.gov/std/treatment-guidelines/default.htm">https://www.cdc.gov/std/treatment-guidelines/default.htm</a>





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