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 Bacterial Vaginosis	RECOMMENDED REGIMEN	ALTERNATIVE REGIMEN	DISEASE Lymphogranuloma Venereum	RECOMMENDED REGIMEN doxycycline 100 mg orally 2x/day for 21 days	ALTERNATIVE REGIMEN azithromycin 1 gm orally 1x/week for 3 weeks 20
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	clindamycin 300 mg orally 2x/day for 7 days OR clindamycin ovules 100 mg intravaginally at bedtime for 3 days ¹	Lympnogranuloma venereum	doxycycline 100 mg orally 2x/day for 21 days	azithromycin 1 gm orally 1x/week for 3 weeks ²⁰ OR erythromycin base 500 mg orally 4x/day for 21 days
	 OR clindamycin cream 2%, one 5 gm applicator intravaginally, at bedtime for 7 days 	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	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
Cervicitis ³	doxycycline 100 mg orally 2x/day for 7 days	azithromycin 1 gm orally in a single dose	Persistent or Recurrent NGU: test for Mycop	plasma genitalium:	
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	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
Pregnancy Infant and children <45 kg ⁴ (nasopharynx, urogenital, and rectal)	azithromycin 1 gm orally in a single dose 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	amoxicillin 500 mg orally 3x/day for 7 days	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 days and a test-of-cure 21 days after completion of therapy
Children who weigh ≥45 kg, but who are aged <8 years (nasopharynx, urogenital, and rectal)	azithromycin 1 gm orally in a single dose			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	
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			1x/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 dove	azithromycin suspension 20 mg/kg body weight/day orally, 1x/day for 3 days	Test for <i>Trichomonas vaginalis</i> in heterosexual men in areas where infection is prevalent Pediculosis Pubis	metronidazole 2 gm orally in a single dose OR tinidazole 2 gm orally in a single dose permethrin 1% cream rinse applied to affected	malathion 0.5% lotion applied to affected areas,
Epididymitis	divided into 4 doses daily for 14 days			areas, wash after 10 minutes OR pyrethrin with piperonyl butoxide applied to	wash after 8–12 hours OR ivermectin 250 µg/kg body weight repeated in
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		Pelvic Inflammatory Disease	affected areas, wash after 10 minutes	7–14 days
For acute epididymitis most likely caused by chlamydia, gonorrhea, or enteric organisms (men who practice insertive anal sex) For acute epididymitis most likely caused	ceftriaxone 500 mg IM in a single dose ⁶ PLUS levofloxacin 500 mg orally 1x/day for 10 days levofloxacin 500 mg orally 1x/day for 10 days		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	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
by enteric organisms only 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		Intramuscular or oral treatment	 OR cefoxitin 2 gm by IV every 6 hours PLUS doxycycline 100 mg orally or by IV every 12 hours ceftriaxone 500 mg IM in a single dose⁶ PLUS doxycycline 100 mg orally 2x/day for 14 days WITH metronidazole 500 mg orally 2x/day for 14 days 	
Suppressive therapy for recurrent genital herpes (HSV-2)	 OR valacyclovir 1 gm orally 2x/day for 7–10 days acyclovir 400 mg orally 2x/day OR valacyclovir 500 mg orally 1x/day⁹ OR valacyclovir 1 gm orally 1x/day 			 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 	
Episodic therapy for recurrent genital herpes (HSV-2) ¹⁰	OR famciclovir 250 mg orally 2x/day 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		The complete list of recommended regimer	(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 ns can be found in Sexually Transmitted Infections Treatme	
	 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 		Scabies	 permethrin 5% cream applied to all areas of the body (from neck down), wash after 8–14 hours²¹ OR ivermectin 200ug/kg body weight orally, repeated in 14 days²² OR ivermectin 1% lotion applied to all areas of the body (from neck down), wash after 8–14 hours; 	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 ²³
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		Syphilis ²⁴	repeat treatment in 1 week if symptoms persist	
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		Primary, secondary, and early latent: adults (including pregnant women and people with HIV infection) Late latent adults (including pregnant	benzathine penicillin G 2.4 million units IM in a single dose benzathine penicillin G 7.2 million units total,	
Daily suppressive therapy of recurrent genital herpes in pregnant women ¹¹	acyclovir 400 mg orally 3x/day OR valacyclovir 500 mg orally 2x/day		women and people with HIV infection)	administered as 3 doses of 2.4 million units IM each at 1-week intervals	
Genital Warts (Human Papillomavirus)	, , , ,		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	procaine penicillin G 2.4 million units IM 1x/day PLUS probenecid 500 mg orally 4x/day, both for 10–14 days
External anogenital warts ¹²	 Patient-applied imiquimod 3.75% or 5% cream¹³ OR podofilox 0.5% solution or gel 		For children or congenital syphilis	10–14 days See Sexually Transmitted Infections Treatment Guidelines, 2021.	
	OR sinecatechins 15% ointment ¹³ Provider–administered		Trichomoniasis ²⁵		
	cryotherapy with liquid nitrogen or cryoprobe OR surgical removal either by tangential scissor		Women Men	metronidazole 500 mg orally 2x/day for 7 days metronidazole 2 gm orally in a single dose	tinidazole 2 gm orally in a single dose tinidazole 2 gm orally in a single dose
	excision, tangential shave excision, curettage, laser, or electrosurgery OR trichloroacetic acid (TCA) or bichloroacetic acid		 Clindamycin ovules use an oleaginous base that ovules is not recommended. 	might weaken latex or rubber products (e.g., condoms and diaphragms).	Use of such products within 72 hours following treatment with clindamycin
Urethral meatus warts	(BCA) 80%–90% solution cryotherapy with liquid nitrogen OR surgical removal		 Consider concurrent treatment for gonococcal inf Data are limited regarding the effectiveness and An association between oral erythromycin and az 	ned applesauce, yogurt, or pudding before ingestion. A glass of water car fection if the patient is at risk for gonorrhea or lives in a community where optimal dose of azithromycin for treating chlamydial infection among infa zithromycin and infantile hypertrophic pyloric stenosis (IHPS) has been rep	e the prevalence of gonorrhea is high (see Gonorrhea section). nts and children who weigh <45 kg.
Vaginal warts, ¹⁴ Cervical warts, ¹⁵ Intra-anal warts ¹⁶	cryotherapy with liquid nitrogen OR surgical removal OR TCA or BCA 80%–90% solution		 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. 		
Gonococcal Infections			9. Valacyclovir 500 mg once a day might be less eff	ective but is not recommended because of the nequency of dosing. fective than other valacyclovir or acyclovir dosing regimens for persons will ffective but is not recommended because of frequency of dosing.	no have frequent recurrences (i.e., ≥ 10 episodes/year).
Uncomplicated infections of the cervix, urethra, and rectum: adults and adolescents <150 kg ⁶	ceftriaxone 500 mg IM in a single dose ¹⁷	If cephalosporin allergy: gentamicin 240 mg IM in a single dose PLUS 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 ¹⁷	 Acyclowit 400 mg orally lines times day is also enecute but is not recommended because of nequency of dosing. Treatment recommended starting at 36 weeks' gestation. (Source: <i>American College of Obstetricians and Gynecologists. Clinical management guidelines for obstetrician-gynecologists. Management of herpes in pregnancy.</i> ACOG Practice Bulletin No. 82. Obstet Gynecol 2007;109:1489–98.) 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. Might weaken condoms and vaginal diaphragms. The use of a cryoprobe in the vagina is not recommended because of the risk for vaginal perforation and fistula formation. 		
Uncomplicated infection of the pharynx: adults and adolescents <150 kg ⁶	ceftriaxone 500 mg IM in a single dose ¹⁷		15. Management of cervical warts should include cor lesion should be performed before treatment is in	nsultation with a specialist. For women who have exophytic cervical warts nitiated.	s, a biopsy evaluation to exclude high-grade squamous intraepithelial
Pregnancy	ceftriaxone 500 mg IM in a single dose ¹⁷			at for chlamydia with doxycycline 100 mg orally two times/day for 7 days	(if pregnant, treat with azithromycin 1 gm orally in a single dose).
Conjunctivitis Disseminated gonococcal infections (DGI) ¹⁹	ceftriaxone 1 gm IM in a single dose ¹⁸ ceftriaxone 1 gm IM or by IV every 24 hours ¹⁷	cefotaxime 1 gm by IV every 8 hours	 Providers should consider one-time lavage of the infected eye with saline solution. 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, for a total treatment course of at least 7 days. Because this regimen has not been validated rigorously, a test-of-cure with <i>Chlamydia trachomatis</i> nucleic acid amplification test (NAAT) 4 weeks after completion of treatment can be considered. Infants and young children (aged <5 years) should be treated with permethrin. Oral ivermectin has limited ovicidal activity; a second dose is required for cure. Infants and children aged <10 years should not be treated with lindane. 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 		
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	OR ceftizoxime 1 gm every 8 hours			
Uncomplicated gonococcal vulvovaginitis, cervicitis, urethritis, pharyngitis, or proctitis: children >45 kg	Treat with the regimen recommended for adults (see above)		found in Sexually Transmitted Infections Treatmen 25. For management of persistent or recurrent infect		
Ocular prophylaxis in neonates	erythromycin (0.5%) ophthalmic ointment in each eye in a single application at birth			enters for Disease	National Network of
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: cefotaxime 100 mg/kg body weight by IV or IM as a single dose		Control and Prevention Iational Center for HIV/AIDS, Iral Hepatitis, STD, and B Prevention	STD Clinical Prevention Training Centers