## **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 Bacterial Vaginosis	RECOMMENDED REGIMENmetronidazole 500 mg orally 2x/day for 7 daysOR metronidazole gel 0.75%, one 5 gm applicator intravaginally, 1x/day for 5 daysOR clindamycin cream 2%, one 5 gm applicator intravaginally, at bedtime for 7 days	ALTERNATIVE REGIMEN clindamycin 300 mg orally 2x/day for 7 days OR clindamycin ovules 100 mg intravaginally at bedtime for 3 days <sup>1</sup> OR secnidazole 2 gm orally in a single dose <sup>2</sup> OR tinidazole 2 gm orally 1x/day for 2 days OR tinidazole 1 gm orally 1x/day for 5 days	DISEASE Lymphogranuloma Venereum	<b>RECOMMENDED REGIMEN</b> doxycycline 100 mg orally 2x/day for 21 days	ALTERNATIVE REGIMEN 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, THEN 250 mg 1x/day for 4 days
Cervicitis <sup>3</sup>	doxycycline 100 mg orally 2x/day for 7 days	azithromycin 1 gm orally in a single dose	Persistent or Recurrent NGU: test for Mycop	olasma genitalium:	
Chlamydial Infections Adults and adolescents Pregnancy	doxycycline 100 mg orally 2x/day for 7 days azithromycin 1 gm orally in a single dose	azithromycin 1 gm orally in a single dose <b>OR</b> levofloxacin 500 mg orally 1x/day for 7 days amoxicillin 500 mg orally 3x/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, <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
Infant and children <45 kg <sup>4</sup> (nasopharynx, urogenital, and rectal)	erythromycin base, 50 mg/kg body weight/day orally, divided into 4 doses daily for 14 days <b>OR</b> ethylsuccinate, 50 mg/kg body weight/day orally, divided into 4 doses daily for 14 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 initial dose, THEN azithromycin 500 mg 1x/day for 3 additional days (2.5 gm total)	
Children who weigh $\ge$ 45 kg, but who are aged <8 years (nasopharynx, urogenital, and rectal)	azithromycin 1 gm orally in a single dose			Macrolide resistance doxycycline 100 mg orally 2x/day for 7 days, FOLLOWED BY moxifloxicin 400 mg 1x/day for 7 days	
Children aged $\geq 8$ years (nasopharynx, urogenital, and rectal)	azithromycin 1 gm orally in a single dose <b>OR</b> doxycycline 100 mg orally 2x/day for 7 days		Test for <i>Trichomonas vaginalis</i> in heterosexual men in areas where	metronidazole 2 gm orally in a single dose <b>OR</b> tinidazole 2 gm orally in a single dose	
Neonates: <sup>5</sup> ophthalmia and pneumonia	erythromycin base, 50 mg/kg body weight/day orally, divided into 4 doses daily for 14 days <b>OR</b> 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	infection is prevalent Pediculosis Pubis	permethrin 1% cream rinse applied to affected areas, wash after 10 minutes	malathion 0.5% lotion applied to affected areas, wash after 8–12 hours
Epididymitis				<b>OR</b> pyrethrin with piperonyl butoxide applied to affected areas, wash after 10 minutes	OR ivermectin 250 µg/kg body weight repeated in 7–14 days
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		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	ampicillin-sulbactam 3 gm by IV every 6 hours <b>PLUS</b> doxycycline 100 mg orally or by IV every
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			<ul> <li>PLUS metronidazole 500 mg orally or by IV every 12 hours</li> <li>OR cefotetan 2 gm by IV every 12 hours PLUS doxycycline 100 mg orally or by IV every 12 hours</li> </ul>	<ul> <li>12 hours</li> <li>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</li> </ul>
For acute epididymitis most likely caused by enteric organisms only	levofloxacin 500 mg orally 1x/day for 10 days			<b>OR</b> cefoxitin 2 gm by IV every 6 hours <b>PLUS</b> doxycycline 100 mg orally or by IV every 12 hours	weight 1x/day
<b>Genital Herpes Simplex</b> First clinical episode of genital herpes <sup>7</sup>	acyclovir 400 mg orally 3x/day for 7–10 days <sup>8</sup> OR famciclovir 250 mg orally 3x/day for 7–10 days OR valacyclovir 1 gm orally 2x/day for 7–10 days		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 WIT 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	
Suppressive therapy for recurrent genital herpes (HSV-2)	acyclovir 400 mg orally 2x/day OR valacyclovir 500 mg orally 1x/day <sup>9</sup> OR valacyclovir 1 gm orally 1x/day OR famciclovir 250 mg orally 2x/day			<ul> <li>2x/day for 14 days WITH metronidazole 500 mg orally 2x/day for 14 days</li> <li>OR Other parenteral third-generation cephalosporin (e.g., ceftizoxime or cefotaxime) PLUS doxycycline 100 mg orally 2x/day for 14 days WIT metronidazole 500 mg orally 2x/day for 14 days</li> </ul>	Н
Episodic therapy for recurrent genital herpes (HSV-2) <sup>10</sup>	acyclovir 800 mg orally 2x/day for 5 days <b>OR</b> acyclovir 800 mg orally 3x/day for 2 days <b>OR</b> famciclovir 1 gm orally 2x/day for 1 day <b>OR</b> famciclovir 500 mg once, <b>FOLLOWED BY</b> 250 mg 2x/day for 2 days <b>OR</b> famciclovir 125 mg 2x/day for 5 days <b>OR</b> uploauclouir 500 mg orally 2u/day for 5 days		The complete list of recommended regimer <b>Scabies</b>	ns can be found in Sexually Transmitted Infections Treatm permethrin 5% cream applied to all areas of the body (from neck down), wash after 8–14 hours <sup>21</sup> <b>OR</b> ivermectin 200ug/kg body weight orally, repeated in 14 days <sup>22</sup>	ent Guidelines, 2021. 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>
Daily suppressive therapy for persons with HIV infection	<b>OR</b> famciclovir 500 mg orally 2x/day		Syphilis <sup>24</sup>	<b>OR</b> 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	
Episodic therapy for persons with HIV infection	OR valacyclovir 500 mg orally 2x/day acyclovir 400 mg orally 3x/day for 5–10 days OR famciclovir 500 mg orally 2x/day for 5–10 days		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	
Daily suppressive therapy of recurrent	<b>OR</b> valacyclovir 1 gm orally 2x/day for 5–10 days acyclovir 400 mg orally 3x/day		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	
genital herpes in pregnant women <sup>11</sup> Genital Warts (Human Papillomavirus)	<b>OR</b> valacyclovir 500 mg orally 2x/day		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
External anogenital warts <sup>12</sup>	Patient-applied		For children or congenital syphilis	See Sexually Transmitted Infections Treatment	
	imiquimod 3.75% or 5% cream <sup>13</sup> <b>OR</b> podofilox 0.5% solution or gel			Guidelines, 2021.	
	<b>OR</b> sinecatechins 15% ointment <sup>13</sup>		Trichomoniasis <sup>25</sup>	matropidazala EQQ ma arally 0x/day far 7 daya	tinidazala 0 am arallu in a aingla daga
	Provider-administered cryotherapy with liquid nitrogen or cryoprobe		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
	OR surgical removal either by tangential scissor excision, tangential shave excision, curettage, laser, or electrosurgery		<ol> <li>Clindamycin ovules use an oleaginous base that mi ovules is not recommended.</li> </ol>	ight weaken latex or rubber products (e.g., condoms and diaphragms).	Use of such products within 72 hours following treatment with clindamy
Urethral meatus warts	OR trichloroacetic acid (TCA) or bichloroacetic acid (BCA) 80%–90% solution cryotherapy with liquid nitrogen		<ol> <li>Consider concurrent treatment for gonococcal infect</li> <li>Data are limited regarding the effectiveness and op</li> </ol>	ed applesauce, yogurt, or pudding before ingestion. A glass of water car ction if the patient is at risk for gonorrhea or lives in a community where stimal dose of azithromycin for treating chlamydial infection among infa	e the prevalence of gonorrhea is high (see Gonorrhea section). nts and children who weigh <45 kg.
Vaginal warts, <sup>14</sup> Cervical warts, <sup>15</sup> Intra-anal warts <sup>16</sup>	OR surgical removal cryotherapy with liquid nitrogen OR surgical removal		<ol> <li>An association between oral erythromycin and azithromycin and infantile hypertrophic pyloric stenosis (IHPS) has been reported among infants aged &lt;6 weeks. Infants treated with either of these antimicrobials should be followed for IHPS signs and symptoms.</li> <li>For persons weighing ≥150 kg, 1 gm ceftriaxone should be administered.</li> <li>Treatment can be extended if healing is incomplete after 10 days of therapy.</li> <li>Avelaging 200 mg apply fing times (day is plan offective but is not recommanded because of the frequency of design.</li> </ol>		
	OR TCA or BCA 80%–90% solution		9. Valacyclovir 500 mg once a day might be less effect	tive but is not recommended because of the frequency of dosing. Stive than other valacyclovir or acyclovir dosing regimens for persons wi	no have frequent recurrences (i.e., $\geq$ 10 episodes/year).
<b>Gonococcal Infections</b> 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:	<ol> <li>Acyclovir 400 mg orally three times/day is also effective but is not recommended because of frequency of dosing.</li> <li>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.)</li> <li>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.</li> <li>Might weaken condoms and vaginal diaphragms.</li> <li>The use of a cryoprobe in the vagina is not recommended because of the risk for vaginal perforation and fistula formation.</li> <li>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.</li> <li>Management of intra-anal warts should include consultation with a specialist.</li> <li>If chlamydial infection has not been excluded, treat 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).</li> </ol>		
Uncomplicated infection of the pharynx: adults and adolescents <150 kg <sup>6</sup>	ceftriaxone 500 mg IM in a single dose <sup>17</sup>	cefixime 800 mg orally in a single dose <sup>17</sup>			
Pregnancy	ceftriaxone 500 mg IM in a single dose <sup>17</sup>		18. Providers should consider one-time lavage of the in	nfected eye with saline solution.	eptibility testing (AST) 24–48 hours after substantial clinical improvemen
Conjunctivitis	ceftriaxone 1 gm IM in a single dose <sup>18</sup>		for a total treatment course of $>7$ days.		
Disseminated gonococcal infections (DGI) <sup>19</sup> Uncomplicated gonococcal vulvovaginitis,	ceftriaxone 25–50 mg/kg body weight by IV or	cefotaxime 1 gm by IV every 8 hours OR ceftizoxime 1 gm every 8 hours	<ol> <li>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.</li> <li>Infants and young children (aged &lt;5 years) should be treated with permethrin.</li> <li>Oral ivermectin has limited ovicidal activity; a second dose is required for cure.</li> <li>Infants and children aged &lt;10 years should not be treated with lindane.</li> <li>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.</li> <li>For management of persistent or recurrent infection, refer to Sexually Transmitted Infections Treatment Guidelines, 2021.</li> </ol>		
cervicitis, urethritis, pharyngitis, or proctitis: infants and children ≤45 kg Uncomplicated gonococcal vulvovaginitis,	IM in a single dose, not to exceed 250 mg IM Treat with the regimen recommended for adults				
cervicitis, urethritis, pharyngitis, or proctitis: children >45 kg Ocular prophylaxis in neonates	(see above) erythromycin (0.5%) ophthalmic ointment in each		Accessible version: <u>https://www.cdc.</u>	gov/std/treatment-guidelines/default.htm	
ששטוענדאייאאאיז איז ארטווענדא	eye in a single application at birth			nters 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		ntrol and Prevention tional Center for HIV/AIDS, al Hepatitis, STD, and Prevention	STD Clinical Prevention Training Centers