



## STD TREATMENT GUIDELINES TABLE FOR ADULTS & ADOLESCENTS 2011

These recommendations for the treatment of STDs reflect the **2010 CDC STD Treatment Guidelines**. The focus is primarily on STDs encountered in outpatient practice. This table is intended as a source of clinical guidance and is not a comprehensive list of all effective regimens. For more information, please refer to the complete CDC document at http://www.cdc.gov/std/treatment/2010/

The following are available resources in New York City: Call the NYCDOHMH at 212-788-4443 or go to <a href="http://www.nyc.gov/health/std">http://www.nyc.gov/health/std</a> to learn more about STDs and how to report infections; to request assistance with confidential notification of sexual partners of patients with syphilis or HIV infection; and to obtain additional information about NYC DOHMH clinical services. Health care providers can access the latest NYC public health information by joining NYC MED at http://www.nyc.gov/health/nycmed.

DOSING ABBREVIATIONS: d=day; qd=once each day; bid= twice daily; tid=three times a day; qid=four times a day; po=by mouth; IM=intramuscular injection; IV=intravenous; mg-milligram; g=gram; hs=hour of sleep; prn=as needed.

DISEASE	RECOMMENDED REGIMENS	ALTERNATIVE REGIMENS
CHLAMYDIA <sup>1</sup>		
Uncomplicated Genital/Rectal/Pharyngeal Infections	Azithromycin 1g po x 1 or     Doxycycline <sup>§</sup> 100mg po bid x 7 d	Erythromycin base 500mg po qid x 7 d or     Erythromycin ethylsuccinate 800mg po qid x 7 d or     Ofloxacin <sup>§</sup> 300mg po bid x 7 d or     Levofloxacin <sup>§</sup> 500mg po qd x 7 d
Pregnant Women <sup>2</sup>	Azithromycin 1g po x 1 or     Amoxicillin 500mg po tid x 7 d	Erythromycin base 500mg po qid x 7 d or     Erythromycin base 250mg po qid x 14 d or     Erythromycin ethylsuccinate 800mg po qid x 7 d or     Erythromycin ethylsuccinate 400mg po qid x 14 d
		uncomplicated gonorrhea infection and is the only recommended
regimen for pharyngeal infections. Dual the Uncomplicated Genital/Rectal	nerapy with a regimen effective against <i>C. trachomatis</i> is roll  Ceftriaxone <b>250mg</b> IM x 1	utinely recommended, regardless of chlamydia test results.  • Cefpodoxime 400mg po x 1 or
Infections	or, if not an option Cefixime 400mg po x 1, or Other single-dose injectable cephalosporin <sup>5</sup> PLUS Azithromycin 1g po x 1 or Doxycycline <sup>§</sup> 100mg po BID x 7 d	Cefuroxime avetil 1g po x 1 or  • Azithromycin 2g po x 1 <sup>6</sup>
Pharyngeal Infections	Ceftriaxone 250mg IM x 1	
, ,	PLUS  • Azithromycin 1g po x 1 or  Doxycycline <sup>§</sup> 100mg po BID x 7 d	
PELVIC INFLAMMATORY	Ceftriaxone 250 mg IM x 1 or	Ofloxacin <sup>§,8</sup> 400mg po bid x 14 d <b>or</b>
DISEASE Oral regimens	Cefoxitin 2g IM x 1 with Probenecid 1g po x 1     PLUS	Levofloxacin <sup>§,8</sup> 500mg po qd x 14 d <b>with or without</b> Metronidazole <sup>7</sup> 500mg po bid x 14 d
Oral regimens (For parenteral regimens, see	Doxycycline <sup>§</sup> 100mg po BID x 14 d	Ceftriaxone 250mg IM x 1 plus
www.cdc.gov/std/treatment/2010/)	with or without	Azithromycin 1g po q week x 2 with or without
	Metronidazole <sup>7</sup> 500mg po bid x 14 d	Metronidazole <sup>7</sup> 500mg po bid x 14 d
CERVICITIS 9	Azithromycin 1g po x 1 or     Doxycycline§100mg po bid x 7d	
NONGONOCOCCAL URETHRITIS	Azithromycin 1g po x 1     Doxycycline 100mg po bid x 7 d	Erythromycin base 500mg po qid x 7 d or     Erythromycin ethylsuccinate 800mg po qid x 7 d or     Levofloxacin 500mg po qd x 7 d or     Ofloxacin 300mg po bid x 7 d
RECURRENT AND PERSISTENT URETHRITIS <sup>10</sup>	Metronidazole 2g po x 1 or     Tinidazole 2g po x 1     PLUS	Ollokudii Oooliig po bla x r a
	Azithromycin 1g po x 1 (if not used initially)	
ACUTE EPIDIDYMITIS	<ul> <li>Likely due to gonorrhea or chlamydia<sup>11</sup>:</li> <li>Ceftriaxone 250mg IM x 1</li> <li>PLUS</li> <li>Doxycycline 100mg po bid x 10 d</li> </ul>	For men at risk for both sexually transmitted and enteric organisms: Ceftriaxone 250mg IM x 1 plus Levofloxacin 500mg po qd x 10 d or
	Soxyoyoline Tooling po bld x 10 d	Ofloxacin 300mg po bid x 10 d
	Likely due to enteric organisms or with a negative GC culture or NAAT <sup>11</sup> :	
	Levofloxacin 500mg po qd x 10 d or     Ofloxacin 300mg po bid x 10 d	
TRICHOMONIASIS	S F	
Non-pregnant women <sup>12</sup>	Metronidazole 2g po x 1 or	Metronidazole 500mg po bid x 7 d
	Tinidazole <sup>13</sup> 2g po x 1	<u> </u>
Pregnant Women	Metronidazole 2g po x 1	Metronidazole 500mg po bid x 7 d
BACTERIAL VAGINOSIS Adults/Adolescents	Metronidazole 500mg po bid x 7 d or	Tinidazole <sup>13</sup> 2g po qd x 2 d <b>or</b>
Addito/Addicotellic	Metronidazole gel 0.75%, one full applicator (5g)	Tinidazole 2 g po qu x 2 d <b>or</b>
	intra-vaginally qd x 5 d <b>or</b>	Clindamycin 300mg po bid x 7 d or
	Clindamycin cream <sup>14</sup> 2%, one full applicator (5g)	Clindamycin ovules 100mg intravaginally qhs x 3d
Dragnent Women	intra-vaginally qhs x 7 d	
Pregnant Women	Metronidazole 500mg po bid x 7 d or     Metronidazole 250mg tid x 7 d or	
	Clindamycin 300mg po bid x 7d	

- Contraindicated in pregnant and nursing women
- Annual screening for women aged 25 years or younger. Reinfection is common; retest 3 months after treatment.

  Test-of-cure (preferably by NAAT) 3-4 weeks after completion of therapy is recommended. Pregnant women also should be retested 3 months after treatment.
- Annual screening for women at increased risk, e.g. aged 25 years or younger. Reinfection is common; retest 3 months after treatment.

  For treatment failure or *in vitro* resistance to cephalosporins: Treat with Ceftriaxone 250mg IM (plus azithromycin 1g or doxycycline 100mg bid x 7 d); consult an ID specialist; perform culture and
- susceptibility studies; ensure partner treatment; and in NYC, report to the DOHMH by calling 212-788-4443. Obtain a test-of-cure 3 weeks after treatment. Ceftizoxime 500mg IM; or cefoxitin 2g IM with probenecid 1g PO; or cefotaxime 500mg IM

  Due to concerns over emerging antimicrobial resistance, use should be limited to those with severe cephalosporin allergy or history of severe reaction to penicillin.
- Metronidazole offers additional anaerobic coverage and will treat BV and trichomoniasis, if present.
- A quinolone-based regimen can be considered if a cephalosporin is not feasible and if individual risk and local prevalence of gonorrhea are low. If the test for gonorrhea is positive, the addition of azithromycin 2g po as a single dose is recommended.
- Presumptive regimen. Co-treat for gonorrhea if local prevalence is high (>5%). Treat for BV and trichomoniasis, if present.
- 10 Recommended treatment for patients with persistent symptoms if compliant with initial regimen and re-exposure can be excluded. Consider testing for T.vaginalis infection.
- Among sexually-active men aged <35 yrs, epididymitis is more likely caused by *C. trachomatis* or *N. gonorrheae*. For men who practice insertive anal intercourse or men aged >35 yrs, epididymitis may be caused by enteric organisms.
- <sup>12</sup> 7-day Metronidazole regimen may be more effective in HIV-infected women
- Safety during pregnancy has not been established (Pregnancy Category C); interruption of breastfeeding is recommended during treatment and for 3 days after last dose.
  Oil-based; might weaken latex condoms and diaphragms for up to 5 days after use

DISEASE	RECOMMENDED REGIMENS	ALTERNATIVE REGIMENS
		1
ACUTE PROCTITIS <sup>15, 16</sup>	Ceftriaxone 250mg IM x 1     PLUS	
	Doxycycline§ 100mg po bid x 7 d	
LYMPHOGRANULOMA VENEREUM	Doxycycline§ 100mg po bid x 21 d	Erythromycin base 500mg po qid x 21 d or
		Azithromycin 1g po q week x 3 weeks
CHANCROID	Azithromycin 1g po x 1 or     Ceftriaxone 250mg IM x 1 or	
	Ciprofloxacin <sup>§</sup> 500mg po bid x 3 d	
	Erythromycin base 500mg po tid x 7 d	
		all stages of syphilis and is the only treatment with documented
efficacy for syphilis during pregnancy. 17	,	
Adults (including HIV-Co-infected) <sup>18</sup> Primary, Secondary, and Early Latent	Benzathine penicillin G 2.4 million units IM x1	Doxycycline <sup>19,§</sup> 100mg po bid x 14 d <b>or</b>
Filliary, Secondary, and Early Latent	Delizatilile periiciliiri G 2.4 million units ilvi x i	• Tetracycline 19.§ 500mg po gid x 14 d <b>or</b>
		Ceftriaxone <sup>19</sup> 1g IM or IV qd x 10-14 d
Late Latent and Latent of Unknown	Benzathine penicillin G 7.2 million units,	• Doxycycline <sup>19,§</sup> 100mg po bid x 28 d <b>or</b>
duration <sup>20</sup>	administered as 3 doses of 2.4 million units IM	• Tetracycline <sup>19,§</sup> 500mg po qid x 28 d
Neurosyphilis	each, at 1-week intervals <sup>21</sup> • Aqueous crystalline penicillin G 18-24	Procaine penicillin G,
rveurosypriilis	million units qd, administered as 3-4	2.4 million units IM qd x 10-14 d <b>plus</b>
	million units IV q 4 hrs or continuous infusion x	Probenecid 500mg po qid x 10-14 d <sup>22</sup> <b>or</b>
D (14)	10-14 d <sup>22</sup>	Ceftriaxone <sup>19</sup> 2g IM or IV qd x 10-14 d <sup>22</sup>
Primary, Secondary, and Early Latent	Benzathine penicillin G 2.4 million units IM x1	None. If PCN allergic, desensitize and treat.
Late Latent and Latent of Unknown	Benzathine penicillin G 7.2 million units,	None. If PCN allergic, desensitize and treat.
duration <sup>20</sup>	administered as doses of 2.4 million units	rvone. In roll and gio, accombined and accus
	IM each, at 1-week intervals	
Neurosyphilis	Aqueous crystalline penicillin G 18-24      This is a second of the	Procaine penicillin G,     A selling units IM ad v40 44 d plus
	million units qd, administered as 3-4 million units IV q 4 hrs or continuous infusion x	2.4 million units IM qd x10-14 d <b>plus</b> Probenecid 500mg po qid x 10-14 d <sup>22</sup>
	10-14 d <sup>22</sup>	If PCN allergic, desensitize and treat
DISEASE	RECOMMENDED REGIMENS	
DISEASE  ANOGENITAL WARTS (Human Papillom External Genital/Perianal <sup>23</sup>	a Virus) Patient Applied	Provider Administered
ANOGENITAL WARTS (Human Papillom	Patient Applied Podofilox 0.5% solution/gel <sup>24,25</sup> : apply bid x 3 d	Provider Administered • Cryotherapy: repeat applications q1-2 weeks or
ANOGENITAL WARTS (Human Papillom	Patient Applied Podofilox 0.5% solution/gel <sup>24,25</sup> : apply bid x 3 d followed by 4 d no treatment; use for up to 4 cycles.	Cryotherapy: repeat applications q1-2 weeks or
ANOGENITAL WARTS (Human Papillom	Patient Applied Podofilox 0.5% solution/gel <sup>24,25</sup> : apply bid x 3 d followed by 4 d no treatment; use for up to 4 cycles. Total area treated not to exceed 10cm <sup>2</sup> and total	<ul> <li>Cryotherapy: repeat applications q1-2 weeks or</li> <li>Podophyllin resin§ 10%-25%: apply q1-2 weeks prn; wash off</li> </ul>
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ANOGENITAL WARTS (Human Papillom External Genital/Perianal <sup>23</sup> ANOGENITAL HERPES (HSV-2 and HSV-2)	Patient Applied Podofilox 0.5% solution/gel <sup>24,25</sup> : apply bid x 3 d followed by 4 d no treatment; use for up to 4 cycles. Total area treated not to exceed 10cm² and total volume used ≤ 0.5mL per day or Imiquimod 5% cream²⁴.²6: apply qhs 3x/week for up to 16 weeks; wash off after 6-10 hours or Sinechatechin 15% ointment²⁴.²5.²6.²7: apply tid (0.5cm strand of ointment per wart) for a maximum of 16 weeks	<ul> <li>Cryotherapy: repeat applications q1-2 weeks or</li> <li>Podophyllin resin<sup>§</sup> 10%-25%: apply q1-2 weeks prn; wash off after 1-4 hours. Total area treated not to exceed 10cm² and total volume used ≤ 0.5mL per day or</li> <li>Trichloroacetic acid (TCA) 80%- 90% or Bichloroacetic acid (BCA) 80%- 90%: apply q week prn</li> </ul>
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ANOGENITAL WARTS (Human Papillom External Genital/Perianal <sup>23</sup> ANOGENITAL HERPES (HSV-2 and HSV First Clinical Episode	Patient Applied Patient Applied Podofilox 0.5% solution/gel <sup>24,25</sup> : apply bid x 3 d followed by 4 d no treatment; use for up to 4 cycles. Total area treated not to exceed 10cm² and total volume used ≤ 0.5mL per day or Imiquimod 5% cream²⁴.²6: apply qhs 3x/week for up to 16 weeks; wash off after 6-10 hours or Sinechatechin 15% ointment²⁴.²5.²6.²7: apply tid (0.5cm strand of ointment per wart) for a maximum of 16 weeks 1) Acyclovir 400mg po tid x 7-10 d or 200mg po 5x/day x 7-10 d or Famciclovir 250mg po tid x 7-10 d or Valacyclovir 1g po bid x 7-10 d Suppressive Therapy Acyclovir 400mg po bid or	<ul> <li>Cryotherapy: repeat applications q1-2 weeks or</li> <li>Podophyllin resin<sup>§</sup> 10%-25%: apply q1-2 weeks prn; wash off after 1-4 hours. Total area treated not to exceed 10cm² and total volume used ≤ 0.5mL per day or</li> <li>Trichloroacetic acid (TCA) 80%- 90% or Bichloroacetic acid (BCA) 80%- 90%: apply q week prn</li> <li>Surgery—electrocautery, excision, laser, curretage</li> <li>Episodic Therapy for Recurrent Episodes</li> <li>Acyclovir 400mg po tid x 5 d or</li> </ul>
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- Contraindicated in pregnant and nursing women
- 15 Examine patients by anoscopy and evaluate for infection with HSV, gonorrhea, chlamydia and syphilis
- 16 If painful perianal ulcers are present or mucosal ulcers detected on anoscopy, presumptive therapy should include a regimen for genital herpes and LGV.

  17 Benzathine penicillin G is available in one long-acting formulation, Bicillin® L-A, which contains only benzathine penicillin G. Combination penicillin drug products, such as Bicillin® C-R, contain both long-and short-acting penicillins and should not be used to treat syphilis.
- 18 Most HIV-infected persons respond appropriately to standard benzathine penicillin regimens. HIV-infected patients with syphilis should be treated according to the stage-specific recommendations for HIV-negative persons.
- Use alternative regimens for penicillin-allergic, non-pregnant patients only. Data to support the use of alternatives to penicillin are limited. If compliance or follow-up cannot be ensured, the patient should be desensitized and treated with benzathine penicillin.
- Patients diagnosed with latent syphilis who demonstrate any of the following should have a prompt CSF exam to evaluate for neurosyphilis: 1) neurologic or opthalmic signs or symptoms; 2) evidence of active tertiary syphillis; or 3) serologic or treatment failure.

  An interval of 10-14 days between doses of benzathine penicillin for late or latent syphilis of unknown duration might be acceptable before restarting the sequence of injections.
- <sup>22</sup> Some specialists recommend an additional 2.4 million units of benzathine penicillin G IM qweek for up to 3 weeks after completion of neurosyphilis treatment.
- <sup>23</sup> Mucosal genital warts (cervical, vaginal, anorectal, urethral meatus) should be managed in consultation with a specialist.
- Safety profile during pregnancy not established; Pregnancy Category C.
   Do not wash off after initial application.
- <sup>26</sup> May weaken condoms and diaphragms.
- <sup>27</sup> Use is not recommended for HIV-infected or other immunocompromised persons, or those with clinical genital herpes.
- 28 If HSV lesions persist or recur while receiving antiviral treatment, suspect antiviral resistance. Obtain a viral isolate for sensitivity testing and consult with an HIV specialist.