### 2021 CDC SEXUALLY TRANSMITTED INFECTION (STI) TREATMENT GUIDELINES SUMMARY **NEW HAMPSHIRE BUREAU OF INFECTIOUS DISEASE CONTROL (BIDC)**

This guidelines summary reflects recommendations of the CDC STI Treatment Guidelines. These guidelines focus on STIs encountered in outpatient settings and are not an exhaustive list of effective treatments. Please refer to the complete CDC document for more information or call the Infectious Disease Prevention, Investigation and Care Services Section (IDPICSS). Clinical and epidemiological services are available through the IDPICSS including staff to assist healthcare providers with confidential notification of sexual partners of patients with STIs and/or HIV. Please call for assistance. **PHONE:** 603-271-4496. FAX (603) 271-2545. ADDRESS: New Hampshire Division of Public Health Services, Bureau of Infectious Disease Control, Infectious Disease Prevention, Investigation and Care Services Section, 29 Hazen Drive, Concord, NH 03301.

Care Services Section, 29 Hazen Drive, Concord, NH 03301.				
DISEASE		RECOMMENDED TREATMENT	ALTERNATIVES (use only if recommended regimens are contraindicated)	
SYPHILIS				
ADULTS PRIMARY, SECONDARY OR EARLY LATENT (<1 YEAR)		Benzathine penicillin G 2.4 million units IM once	(For penicillin-allergic non-pregnant patients only)     Doxycycline <sup>1</sup> 100 mg orally 2 times a day for 14 days <u>OR</u> Tetracycline 500 mg orally 4 times a day for 14 days	
ADULTS  LATE LATENT (>1 YEAR) OR LATENT OF UNKNOWN  DURATION		Benzathine penicillin G 2.4 million units IM for 3 doses at 1 week intervals (total 7.2 million units)	(For penicillin-allergic non-pregnant patients only)     Doxycycline <sup>1</sup> 100 mg orally 2 times a day for 28 days <u>OR</u> Tetracycline 500 mg orally 4 times a day for 28 days	
Neurosyphilis Ocular Syphilis Otosyphilis		<ul> <li>Aqueous crystalline penicillin G 18-24 million units per day, administered as 3-4 million units IV every 4 hours or continuous infusion, for 10-14 days<sup>2</sup></li> </ul>	Procaine penicillin G 2.4 million units IM once daily <u>PLUS</u> probenecid 500 mg orally 4 times a day, both for 10-14 days <sup>2</sup>	
CHILDREN PRIMARY, SECONDARY OR EARLY LATENT (<1 YEAR)		<ul> <li>Benzathine penicillin G 50,000 units/kg IM once, up to adult dose of 2.4 million units</li> </ul>		
CHILDREN LATE LATENT (>1 YEAR) OR LATENT OF UNKNOWN DURATION		<ul> <li>Benzathine penicillin G 50,000 units/kg IM (up to adult dose of 2.4 million units) for 3 doses at 1 week intervals (up to total adult dose of 7.2 million units)</li> </ul>	No specific alternative regimens exist.	
CONGENITAL SYPHILIS		See complete CDC guidelines.		
HIV INFECTION		Same stage-specific recommendations as for HIV-negative per		
All Suspect Syphilis Cases: Call (603) 271-4496 for past titers and treatment.  PREGNANCY		Penicillin is the <u>only</u> recommended treatment for syphilis during pregnancy. Pregnant individuals who are allergic should be desensitized and treated with penicillin. Minimum penicillin treatment is the same as in non-pregnant patients for each stage of syphilis, but pregnant individuals with primary, secondary, or early latent syphilis can receive a second dose of benzathine penicillin G 2.4 million units IM, 1 week after initial dose, based on evidence indicating additional therapy is beneficial to prevent congenital syphilis. See complete CDC guidelines.		
GONOCOCCAL INFECT	IONS <sup>3</sup>	J 71 1 2 3 3		
ADULTS, ADOLESCE	NTS, AND CHILDREN	◆ Ceftriaxone 500 mg IM once⁴		
>45 - <150 KG PHARYNGEAL, UROGENITAL, RECTAL		Note: Treatment of pharyngeal gonorrhea should be followed by a test-of-cure 7-14 days after treatment. <sup>5</sup>	For urogenital or rectal infections ONLY, <sup>6</sup> if ceftriaxone is not available:  • Gentamicin 240 mg IM once PLUS Azithromycin 2 g orally once (if cephalosporin allergy) OR	
<u>Partner Management:</u> Expedited partner therapy (EPT treatment of partners of patients infected with chlamydic information, go to <a href="https://www.dhhs.nh.gov/dphs/bch">https://www.dhhs.nh.gov/dphs/bch</a>		or gonorrhea. For more	Cefixime 800 mg orally once	
Adults and Adolescents Conjunctival		Ceftriaxone 1 g IM once plus consider lavage of infected ey- with saline solution once	No specific alternative regimens exist.	
Adults and Adolescents Arthritis, Arthritis-Dermatitis <sup>7</sup>		Ceftriaxone 1 g IM or IV every 24 hours	Cefotaxime 1 g IV every 8 hours <u>OR</u> Ceftizoxime 1 g IV every 8 hours	
CHILDREN ≤45 KG		Ceftriaxone 25-50 mg/kg IV or IM once (max 500 mg)	No specific alternative regimens exist.	
NEONATES OPHTHALMIA NEONATORUM INFANTS BORN TO INFECTED MOTHERS		Ceftriaxone 25-50 mg/kg IV or IM once <sup>8</sup>	For neonates unable to receive ceftriaxone due to co- administration of intravenous calcium:  ◆ Cefotaxime 100 mg/kg IV or IM once	
CHLAMYDIAL INFECTIO				
ADULTS  Partner Management:	AND ADOLESCENTS	◆ Doxycycline <sup>1</sup> 100 mg orally 2 times a day for 7 days <sup>9</sup>	<ul> <li>Azithromycin 1 g orally once <u>OR</u></li> <li>Levofloxacin 10 500 mg orally once a day for 7 days</li> </ul>	
Expedited partner therapy (EPT) is allowed in New Hampshire for treatment of partners of patients infected with chlamydia or gonorrhea. For more information, go to	CHILDREN AGED <u>&gt;</u> 8 YEARS	<ul> <li>Azithromycin 1 g orally once <u>OR</u></li> <li>Doxycycline<sup>1</sup> 100 mg orally 2 times a day for 7 days<sup>9</sup></li> </ul>	No specific alternative regimens exist.	
	CHILDREN AGED <8 YEARS AND ≥45 KG	Azithromycin 1 g orally once		
https://www.dhhs.nh.gov/d phs/bchs/std/ept.htm.	CHILDREN <45 KG AND NEONATES	<ul> <li>Erythromycin base or ethylsuccinate 50 mg/kg/day orally divided into four doses daily for 14 days<sup>11,12</sup></li> </ul>	Azithromycin 20 mg/kg/day orally once a day for 3 days <sup>12,13</sup>	
NONOONGCCCC	PREGNANCY	Azithromycin 1 g orally once	Amoxicillin 500 mg orally 3 times a day for 7 days <sup>14</sup>	
NONGONOCOCCAL URETHRITIS <sup>15</sup> ADULTS PENILE		Doxycycline <sup>1</sup> 100 mg orally 2 times a day for 7 days	<ul> <li>Azithromycin 1 g orally once <u>OR</u></li> <li>Azithromycin 500 mg orally once, then 250 mg orally once a day for 4 days</li> </ul>	
EPIDIDYMITIS				
LIKELY DUE TO CHLAMYDIA OR GONORRHEA		◆ Ceftriaxone 500 mg IM once⁴ PLUS     ◆ Doxycycline¹ 100 mg orally 2 times a day for 10 days		
LIKELY DUE TO CHLAMYDIA AND GONORRHEA OR ENTERIC ORGANISMS (PENILE-RECTAL EXPOSURE)		<ul> <li>Ceftriaxone 500 mg IM once<sup>4</sup> PLUS</li> <li>Levofloxacin<sup>10</sup> 500 mg orally once a day for 10 days</li> </ul>	No specific alternative regimens exist.	
LIKELY DUE TO ENTERIC ORGANISMS ONLY  CERVICITIS		Levofloxacin <sup>10</sup> 500 mg orally once a day for 10 days		
ADULTS AND ADOLESCENTS		◆ Doxycycline¹ 100 mg orally 2 times a day for 7 days	◆ Azithromycin 1 g orally once	
PELVIC INFLAMMATOR	Y DISEASE (outp	atient management)		
Adults and Adolescents >45 - <150 kg		<ul> <li>Ceftriaxone 500 mg IM once<sup>4</sup> OR</li> <li>Cefoxitin 2 g IM once plus probenecid 1 g orally once OR</li> <li>Other parenteral third generation cephalosporin (e.g., ceftizoxime or cefotaxime) PLUS</li> <li>Doxycycline<sup>1</sup> 100 mg orally 2 times a day for 14 days</li> <li>Metronidazole <sup>16</sup> 500 mg orally twice a day for 14 days</li> </ul>		
Pregnancy		Patients should be hospitalized and treated with recommended IV therapy (see complete CDC guidelines).		

Doxycycline can cause skin photosensitivity. Doxycycline not recommended during pregnancy or for children <8 years of age. Effects of prolonged exposure via breast milk are not known. Consider risk of infant exposure, benefits of breastfeeding to infant, and benefits of treatment to mother in any decision to continue or discontinue breastfeeding during therapy.

Durations of regimens for neurosyphilis, ocular syphilis, and otosyphilis are shorter than duration of regimen used for latent syphilis. Therefore, benzathine penicillin, 2.4 million units IM once per week for 1–3 weeks, can be considered after completion of these regimens to provide comparable total duration of therapy.

Dual therapy for gonococcal infection is no longer recommended for all patients with gonorrhea. If chlamydial infection has not been excluded, treat for chlamydia infection.

Dual therapy for gonococcal infection is no longer recommended for all patients with gonorrhea. If chlamydial infection has not been excluded, treat for chlamydia infection.

For persons weighing 2150 kg, 1 g ceftriaxone should be administered.

Test of cure unnecessary in cases of uncomplicated urogenital or rectal gonorrhea treated with recommended or alternative regimens. All cases of pharyngeal gonorrhea should have test of cure 7-14 days after treatment by either NAAT and/or culture; however, NAAT performed closer to 7 days after treatment may be false-positive. If the NAAT is positive, perform confirmatory culture before retreatment, especially if culture was not already collected. If treatment failure suspected: culture, perform antimicrobial susceptibility testing, notify and consult with state health department, or an infectious disease specialist, or an STD clinical expert from the National Network of STD/HIV Prevention Training Centers (<a href="https://www.stdccn.org">www.stdccn.org</a>).

No reliable alternative treatments available for pharyngeal gonorrhea.

No reliable alternative treatments available for pharyngeal gonorrhea.

When treating for arthritis-dermatitis syndrome, switch to oral agent can be guided by antimicrobial susceptibility testing 24–48 hours after substantial clinical improvement, for total treatment course of at least 7 days. Do not co-administer certifraxone with calcium-containing solutions. Ceftriaxone should be administered cautiously to neonates with hyperbilirubinemia, especially those born prematurely.

Do not co-administer ceftriaxone with calcium-containing solutions. Ceftriaxone should be administered cautiously to neonates with hyperbilirubinemia, especially those born prematurely.

Do provide a solution of the state of the summary of the summa

DISEASE	RECOMMENDED TREATMENT	ALTERNATIVES			
LYMPHOGRANULOMA VENEREUM (use only if recommended regimens are contraindicated					
ADULTS AND ADOLESCENTS	Doxycycline <sup>1</sup> 100 mg orally 2 times a day for 21 days	Azithromycin 1 g orally once weekly for 3 weeks <sup>17</sup> <u>OR</u> Erythromycin base 500 mg orally 4 times a day for 21 days			
CHANCROID		, , , , , , , , , , , , , , , , , , , ,			
Adults and Adolescents	Azithromycin 1 g orally once <u>OR</u> Ceftriaxone 250 mg IM once <u>OR</u> Ciprofloxacin <sup>10</sup> 500 mg orally 2 times a day for 3 days <u>OR</u> Erythromycin base 500 mg orally 3 times a day for 7 days	No specific alternative regimens exist.			
BACTERIAL VAGINOSIS (BV)	, , , , , , , , , , , , , , , , , , , ,				
Adults and Adolescents	Metronidazole <sup>16</sup> 500 mg orally 2 times a day for 7 days <u>OR</u> Metronidazole gel 0.75%, 5 g intravag. once a day for 5 days <u>OR</u> Clindamycin cream 2%, 5 g intravag. at bedtime for 7 days <sup>18</sup>	Clindamycin 300 mg orally 2 times a day for 7 days <u>OR</u> Clindamycin ovules 100 mg intravag. at bedtime for 3 days <sup>18</sup> <u>OR</u> Secnidazole 2 g oral granules orally once <sup>19</sup> <u>OR</u> Tinidazole <sup>20</sup> 2 g orally once daily for 2 days <u>OR</u> Tinidazole <sup>20</sup> 1 g orally once daily for 5 days			
Pregnancy	Treatment is recommended for all symptomatic pregnant individuals. <sup>21</sup>	1 Tillidazolo 1 g orally office daily for 5 days			
TRICHOMONIASIS <sup>22</sup>	71 1				
ADULTS VAGINAL AND CERVICAL	◆ Metronidazole <sup>16</sup> 500 mg orally 2 times a day for 7 days	Tinidazole <sup>20</sup> 2 g orally once			
Adults Penile	Metronidazole 2 g orally once	• Thildazole 2 g draily diffe			
PEDICULOSIS PUBIS <sup>23</sup>					
	Permethrin 1% cream rinse applied to affected areas, wash off after 10 minutes <i>OR</i> Pyrethrin with piperonyl butoxide applied to affected areas, wash off after 10 minutes	Malathion 0.5% lotion applied to affected areas, wash off after 8-12 hours <u>OR</u> Ivermectin <sup>24</sup> 250 mcg/kg orally once, repeated in 1 - 2 weeks			
SCABIES					
	Permethrin <sup>25</sup> 5% cream applied to all areas of body from neck down, wash off after 8-14 hours <u>OR</u> Ivermectin <sup>24</sup> 200 mcg/kg orally, repeated in 2 weeks Ivermectin 1% lotion applied to all areas of body from neck down, wash off after 8-14 hours; repeat in 1 week if symptoms persist	Lindane <sup>26</sup> 1% 1 oz of lotion or 30 g of cream applied thinly to all areas of body from neck down, wash off after 8 hours			
GENITAL HERPES SIMPLEX					
ADULTS AND ADOLESCENTS FIRST CLINICAL EPISODE <sup>27</sup>	Acyclovir 400 mg orally 3 times a day for 7-10 days <sup>28</sup> <u>OR</u> Famciclovir <sup>29</sup> 250 mg orally 3 times a day for 7-10 days <u>OR</u> Valacyclovir 1 g orally 2 times a day for 7-10 days				
ADULTS AND ADOLESCENTS SUPPRESSIVE THERAPY FOR RECURRENT GENITAL HERPES (HSV-2)	<ul> <li>Acyclovir 400 mg orally 2 times a day <u>OR</u></li> <li>Valacyclovir 500 mg orally once a day <sup>30</sup> <u>OR</u></li> <li>Valacyclovir 1 g orally once a day <u>OR</u></li> <li>Famciclovir<sup>29</sup> 250 mg orally 2 times a day</li> </ul>				
Adults and Adolescents Episodic Therapy For Recurrent Genital Herpes (HSV-2)	Acyclovir 800 mg orally 2 times a day for 5 days 31 <u>OR</u> Acyclovir 800 mg orally 3 times a day for 2 days <u>OR</u> Famciclovir <sup>29</sup> 1 g orally 2 times a day for 1 day <u>OR</u> Famciclovir <sup>29</sup> 500 mg orally once, followed by 250 mg orally 2 times a day for 2 days <u>OR</u> Famciclovir <sup>29</sup> 125 mg orally 2 times a day for 5 days <u>OR</u> Valacyclovir 500 mg orally 2 times a day for 3 days <u>OR</u> Valacyclovir 1 g orally once a day for 5 days				
HIV INFECTION	Higher doses and/or longer therapy recommended. See complete CDC qui	delines.			
PREGNANCY THIS INC. A CONTROL OF THE PROPERTY					
GENITAL WARTS					

### External or Perianal 32

- PROVIDER-ADMINISTERED Cryotherapy with liquid nitrogen or cryoprobe. Repeat applications every 1-2 weeks if necessary <u>OR</u>
  - Surgical removal OR
  - Trichloroacetic acid (TCA) or bichloroacetic acid (BCA) 80% -90%. Apply small amount only to warts. Allow to dry. If excess amount applied, powder with talc, baking soda or liquid soap. Repeat weekly if necessary.

- IENT-APPLIED

  Imiquimod 5% cream. 33 Apply once daily at bedtime 3 times a week for up to 16 weeks. Wash treatment area with soap and water 6-10 hours after application <u>OR</u>

  Imiquimod 3.75% cream. 33 Apply once daily at bedtime every day for up to 8 weeks. Wash treatment area with soap and water 6-10 hours after application <u>OR</u>

  Podofilox 0.5% solution or gel. 34 Apply 2 times a day for 3 days, followed by 4 days of no therapy, 4 cycles max. Total wart area should not exceed 10 cm² and total volume applied daily not to exceed 0.5 ml <u>OR</u>

  Sincerton ins 15% ointment 35 Applied 3 times a day for up to 16 weeks. Do not wash off
- Sinecatechins 15% ointment. 35 Applied 3 times a day for up to 16 weeks. Do not wash off.

## Urethral Meatus

• Cryotherapy with liquid nitrogen

### OR

· Surgical removal

# Vaginal<sup>36</sup>, Cervical<sup>37</sup> or Intra-Anal<sup>38</sup>

• Cryotherapy with liquid nitrogen

## OR

· Surgical removal

### <u>0R</u>

• TCA or BCA 80%-90%. Apply small amount only to warts. Allow to dry. If excess amount applied, powder with talc, baking soda or liquid soap. Repeat weekly if





# **Sylvie Ratelle** STD/HIV **Prevention Training** Center of New England

A Project of the Division of STD Prevention Massachusetts Department of Public Health Funded by the CDC

Because this regimen has not been rigorously validated, a test-of-cure with *C. trachomatis* nucleic acid amplification test (NAAT) 4 weeks after completion of treatment can be considered.

Recause this regimen has not been rigorously validated, a test-of-cure with *C. trachomatis* nucleic acid amplification test (NAAT) 4 weeks after completion of treatment can be considered.

Recause or of validational information. Although older studies indicated a possible link between use of vaginal clindamycin during pregnancy and adverse outcomes for the newborn, newer data demonstrate that this treatment approach is safe for pregnant individuals. Individuals are possible link between use of vaginal clindamycin during pregnancy and adverse outcomes for the newborn, newer data demonstrate that this treatment approach is safe for pregnant individuals. Individuals of the ready of the regiment of

28 Acyclovir 200 mg orally 5 times a day for 7-10 days is also effective but no longer recommended because of frequency of dosing.
29 Famciclovir can be used in adolescents and children ≥45 kg.
30 Valacyclovir 500 mg once a day might be less effective than other dosing regimens for persons who have frequent recurrences (i.e., ≥10 episodes/year).
31 Acyclovir 400 mg orally 3 times a day for 5 days is also effective but not recommended because of frequency of dosing.
32 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.
30 May weaken condoms and vaginal diaphragms. Data from studies of humans are limited regarding use of imiquimod in pregnancy, but animal data suggest imiquimod poses low risk.
31 Podofilox is contraindicated in pregnancy.
32 Sinceatechins not recommended for HIV-infected persons, immunocompromised persons, or persons with clinical genital herpes. Safety of sinecatechins in pregnancy is unknown.
33 Sinceatechins not recommended because of risk for vaginal perforation and fistula formation.
34 Podofilox is contraindicated in pregnancy of the pregnancy of the pregnancy is unknown.
35 Sinceatechins not recommended because of risk for vaginal perforation and fistula formation.
36 Wanagement should include consultation with a specialist. Exophytic cervical warts warrant biopsy to exclude high-grade squamous intraepithelial lesions before treatment is initiated.
36 Wanagement should include consultation with a specialist. Many persons with anal warts may also have them in the rectal mucosa. Inspect rectal mucosa by digital examination or anoscopy.