

Bacterial Genital Tract Infections

CHI Formulary Treatment algorithm

Treatment algorithm- November
2023

Supporting treatment algorithms
for the clinical management of
Bacterial Genital Tract Infections

Figures 1 to 8 outline a comprehensive treatment algorithm on the **antimicrobial therapies for Bacterial Genital Tract Infections**, respectively, aimed at addressing the different lines of treatment after thorough review of medical and economic evidence by CHI committees.

For further evidence, please refer to CHI **Bacterial Genital Tract Infections** full report. You can stay updated on the upcoming changes to our formulary by visiting our website at <https://chi.gov.sa/AboutCCHI/CCHIprograms/Pages/IDF.aspx>

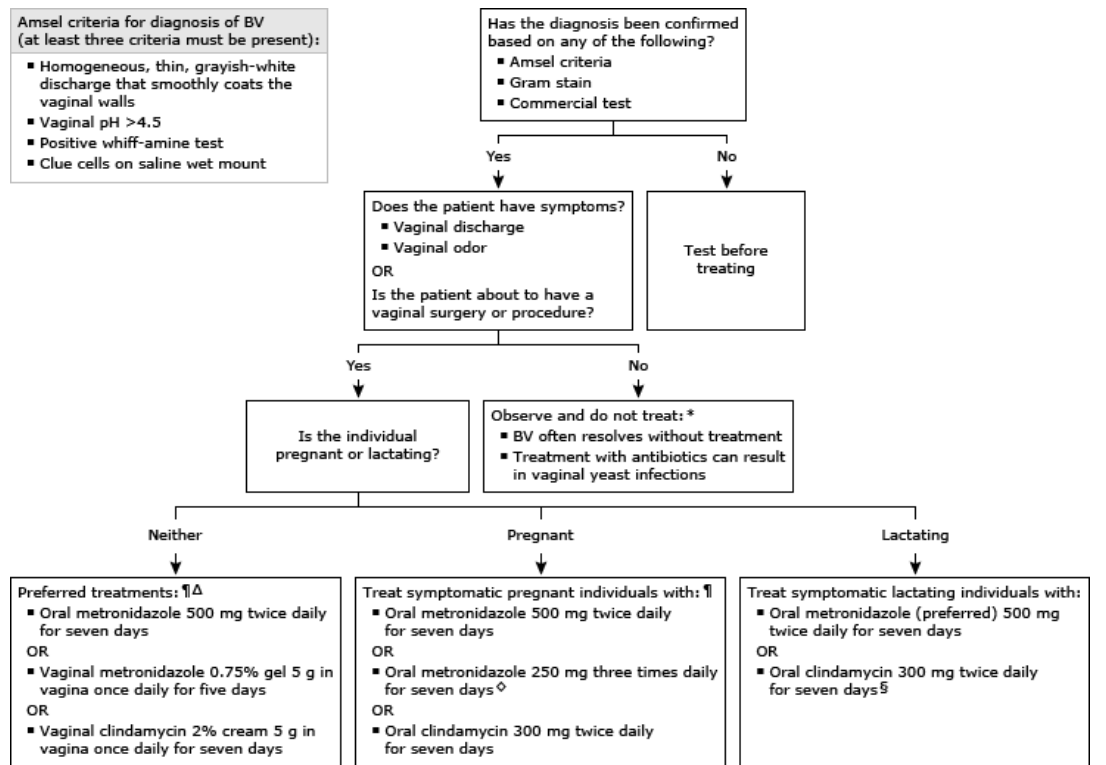


Figure 1: Treatment Algorithm for Bacterial Vaginosis

* We do not routinely treat asymptomatic individuals, including pregnant and lactating persons. However, others may reasonably elect to treat asymptomatic pregnant individuals as the supporting data conflict, particularly for those with a history of preterm birth.

¶ As treatment efficacy is similar between metronidazole and clindamycin, the choice of medication is based on availability, patient preference, side effects, cost, and history of response or adverse reactions.¹

Δ For additional treatment options, please refer to related UpToDate content on treatment of bacterial vaginosis.

◇ Pregnant individuals who are unable to tolerate metronidazole 500 mg twice daily because of gastrointestinal symptoms may be able to tolerate metronidazole 250 mg three times daily.

§ Breastfeeding infants may develop side effects from maternal clindamycin treatment and should be monitored for possible symptoms, including diarrhea, candidiasis (thrush, diaper rash), or rarely, colitis.

‡ Until definitive data are available, we treat patients who have undergone gender-affirming surgery based on their revised anatomy. As example, patients with neo-vaginas are treated as female and those with neophalluses are treated as male.

1. Bacterial vaginosis: Initial treatment - UpToDate. Accessed October 18, 2023. https://www.uptodate.com/contents/bacterial-vaginosis-initial-treatment?search=bacterial%20gonorrhoea%20treatment&source=graphics_search&graphicRef=131909#graphicRef131909

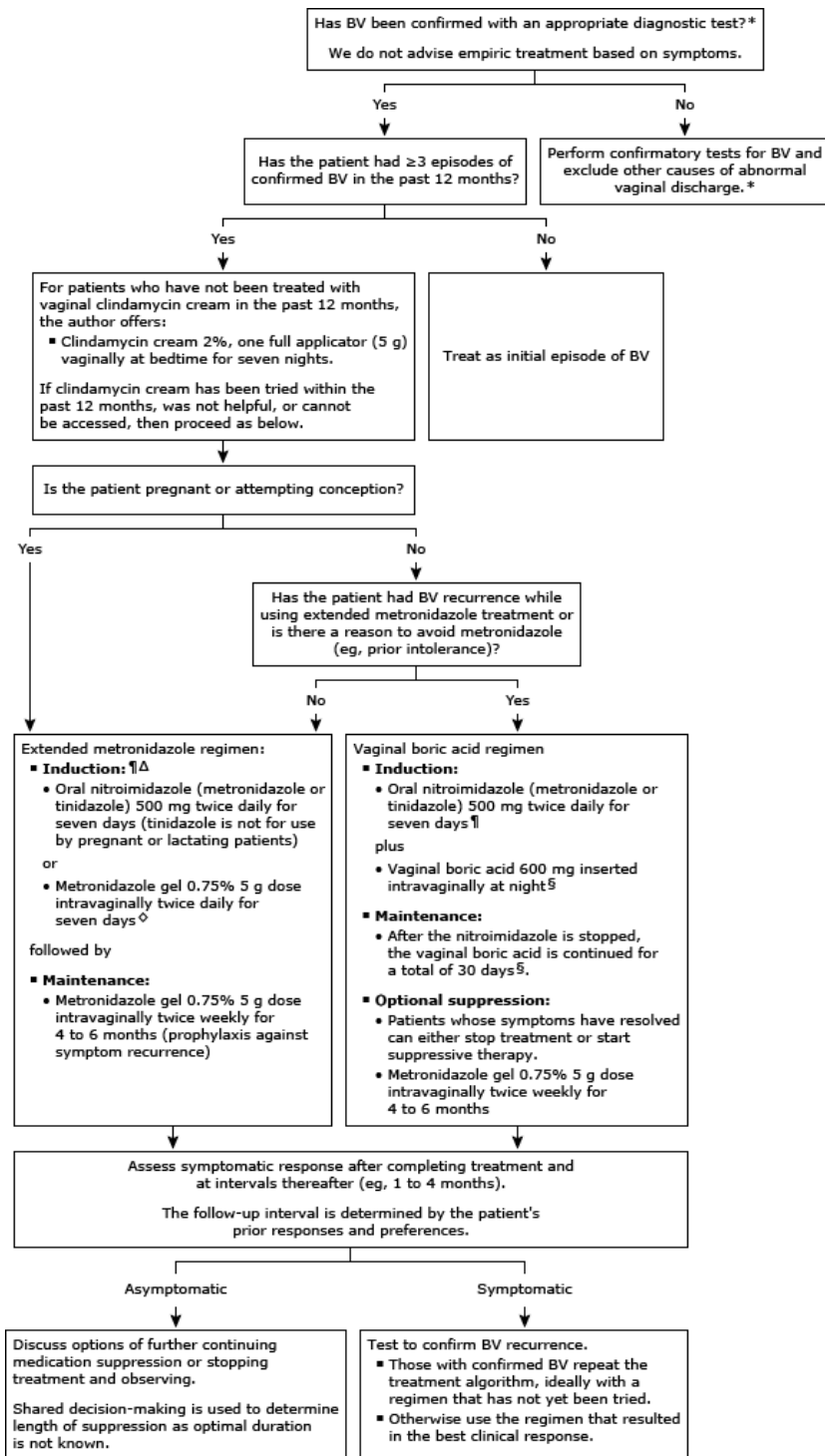


Figure 2: Treatment Algorithm for Recurrent Bacterial Vaginosis

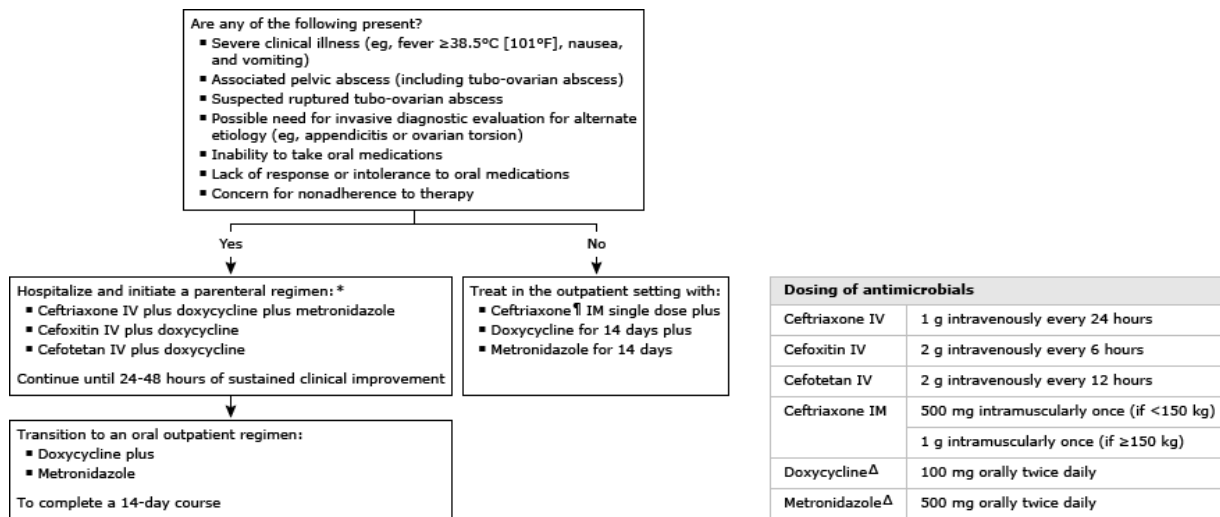
* Discussion of testing options to confirm bacterial vaginosis and/or other causes of abnormal vaginal discharge are presented in related UpToDate content on abnormal vaginal discharge.

¶ Choice of metronidazole or tinidazole is based on prior patient response (if any), availability, and cost.

Δ If response to a drug was inadequate in the past, then we select a different drug if available.

◇ Patients often prefer oral rather than vaginal treatment but both are effective.

§ **Critical warning:** Boric acid is for **vaginal** use only. Boric acid can cause death if taken orally. Commercially available vaginal suppository preparation is preferred but compounded products are an acceptable alternative. Vaginal boric acid should not be used by people who are pregnant or attempting conception. Boric acid should be stored safely away from children. Optimal treatment duration is not known.



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Figure 3: Antimicrobial therapy for pelvic inflammatory disease in adults and adolescents

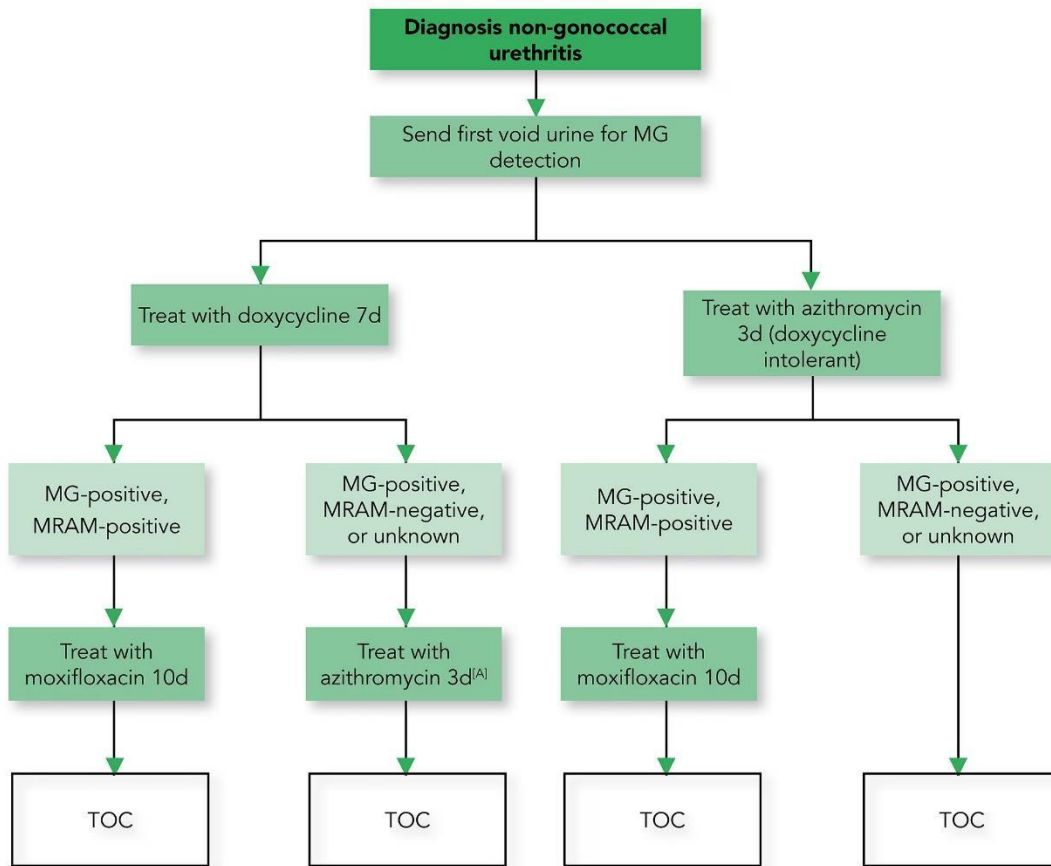
This algorithm represents our approach to antimicrobial selection for nonpregnant patients with PID. Treatment should be tailored to the individual. Refer to other UpToDate content on PID therapy for details on and doses for alternative regimens, including management of PID in pregnant individuals (which is uncommon).

PID: pelvic inflammatory disease; IM: intramuscular; IV: intravenous.

* Alternative regimens include clindamycin plus gentamicin, ampicillin-sulbactam plus doxycycline, and if *Neisseria gonorrhoeae* has been ruled out, azithromycin plus metronidazole. Because of various drawbacks, we reserve these for patients who cannot take preferred regimens.

¶ We prefer ceftriaxone because it has the best and most established activity against *N. gonorrhoeae*. Other appropriate long-acting intramuscular cephalosporins include cefoxitin (with probenecid), cefotaxime, and ceftizoxime.

Δ Doxycycline and metronidazole can also be given intravenously at the same doses for those who cannot take oral medications.

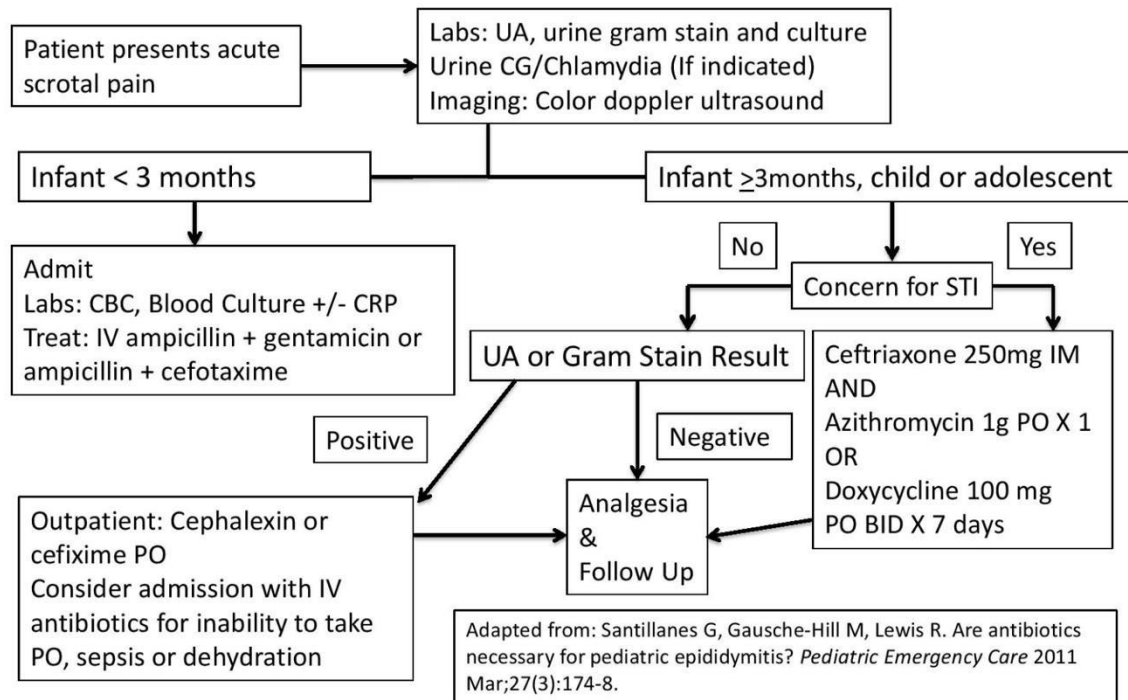


Abbreviations: azithromycin 3d=azithromycin 1 g, then 500 mg once daily for 2 days; doxycycline 7d=doxycycline 100 mg twice daily for 7 days; MG=*Mycoplasma genitalium*; moxifloxacin 10d=moxifloxacin 400 mg once daily for 10 days; MRAM=macrolide resistance-associated mutation; TOC=test of cure

[A] Azithromycin 3d should be started within 2 weeks of finishing doxycycline

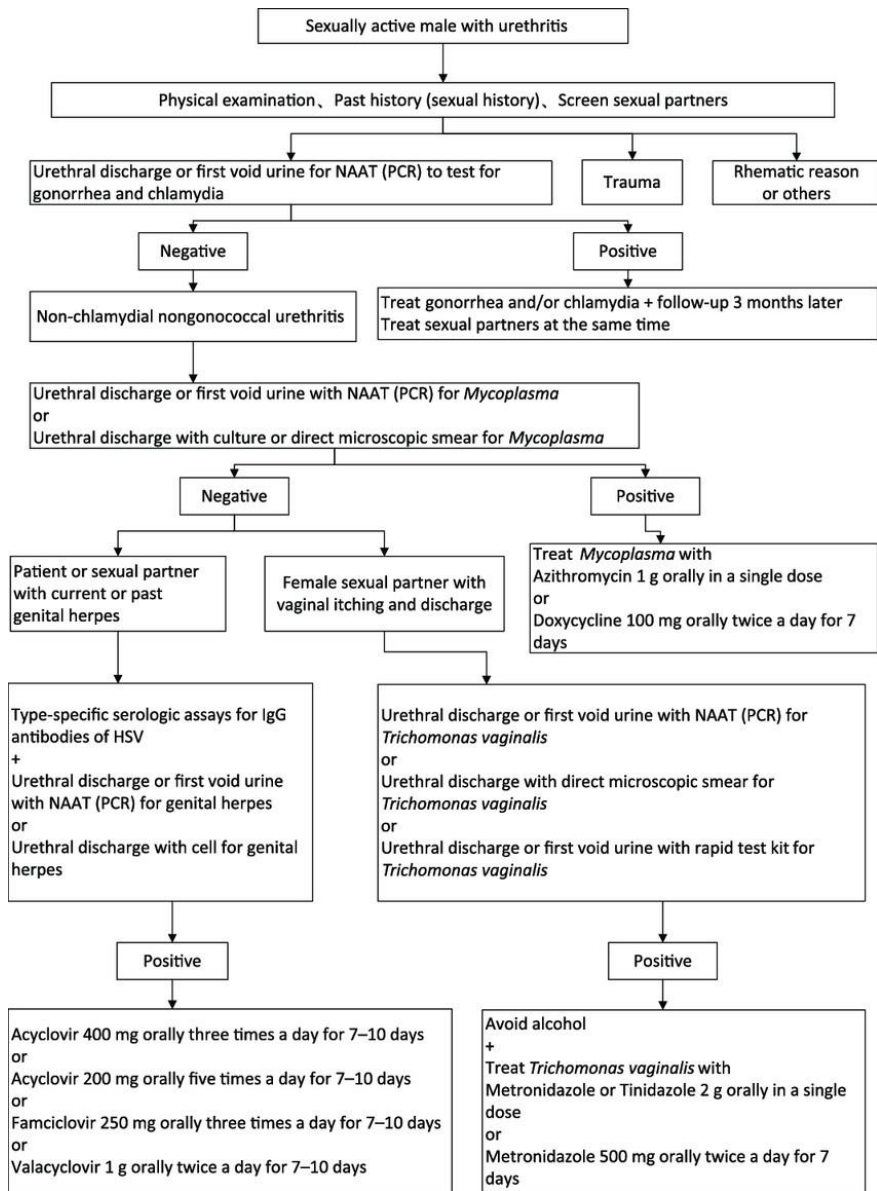
Figure 4: Treatment Pathway for Men Presenting with Non-gonococcal Urethritis Who Subsequently Test Positive for *M. Genitalium*

⁴ National Guideline for the Management of Infection with *Mycoplasma Genitalium*. Accessed October 18, 2023. <https://www.medscape.co.uk/viewarticle/national-guideline-management-infection-mycoplasma-2023a10001x8>



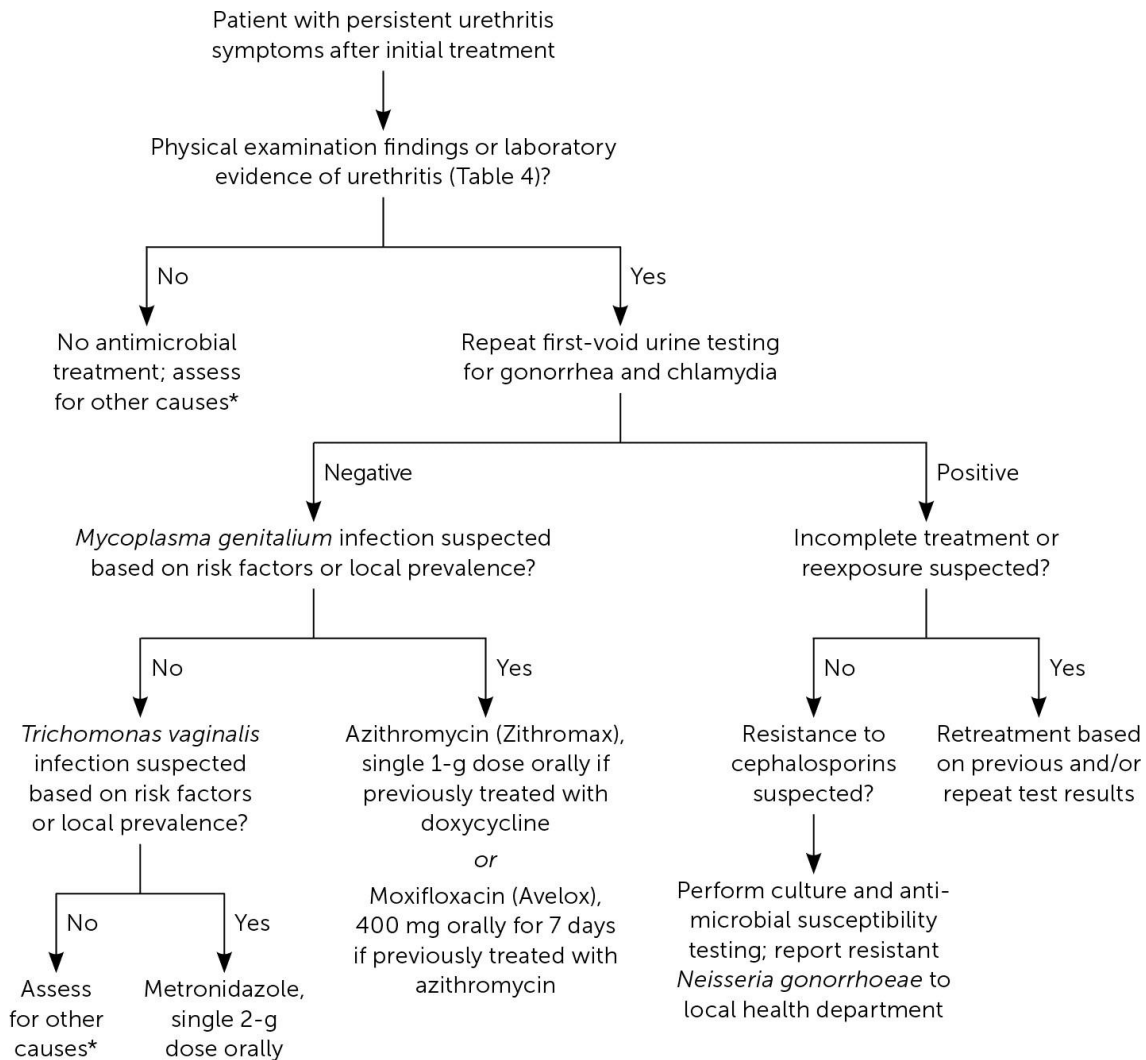
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Figure 5: Epididymitis treatment algorithm for infants, children and adolescents



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Figure 6: Treatment algorithm for Non-chlamydial nongonococcal urethritis in men



*—For all patients with persistent urethritis symptoms, consider:

- Workup for chronic prostatitis/chronic pelvic pain syndrome
- Obtaining a urethral specimen for herpes simplex virus culture
- Consulting a urologist, an infectious disease specialist, or an experienced colleague

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Figure 7: Evaluation and treatment of patients with persistent urethritis symptoms after initial treatment

⁷ Sell J, Nasir M, Courchesne C. Urethritis: Rapid Evidence Review. *Am Fam Physician*. 2021;103(9):553-558. Accessed October 18, 2023. <https://www.aafp.org/pubs/afp/issues/2021/0501/p553.html>



Figure 8: Management of syphilis

⁸ BROWN DL, FRANK JE. Diagnosis and Management of Syphilis. *Am Fam Physician*. 2003;68(2):283-290. Accessed October 18, 2023. <https://www.aafp.org/pubs/afp/issues/2003/0715/p283.html>