



## Urinary Tract Infection: Are Men Really that Complicated?

Urinary tract infections (UTIs) are one of the most commonly diagnosed bacterial infections and affect women more frequently than men. Lower rates of UTIs in men is thought to be due to a protective effect from a longer urethra. Similarly, when men do develop a UTI, it has historically been thought that the UTI was more complicated and required longer durations of treatment. However, are men really that complicated and do they need longer durations of antibiotics?

### What do guidelines recommend?

Hot off the presses, the 2025 Infectious Diseases Society of America (IDSA) complicated urinary tract infection (cUTI) guideline provides updated definitions intended to guide management. A key update is the inclusion of afebrile men in the classification for uncomplicated UTI, where the infection is confined to the bladder and no systemic signs of infection are present. The IDSA cUTI guideline notes that specific antibiotic choice and duration of therapy may still differ between men and women with uncomplicated UTI (uUTI) and that these will be addressed in the forthcoming uUTI guideline.<sup>1</sup>

The 2024 UTI WikiGuideline suggest standard recommended antibiotics and durations for cystitis, pyelonephritis, and febrile UTI, irrespective of biological sex.<sup>2</sup>

### What is the evidence?

Evidence is limited in cystitis and uncomplicated UTI as many trials excluded men. However in a recent double-blind, randomized controlled trial in afebrile men with UTI, 7 days of ciprofloxacin or trimethoprim-sulfamethoxazole was found to be non-inferior to 14 days for resolution of UTI symptoms (93.1% vs 90.2%) and recurrence (9.9% vs 12.9%).<sup>3</sup>

For pyelonephritis and complicated UTI, men made up 39.1% of patients in a randomized controlled trial that found 5 days of levofloxacin to be non-inferior to 10 days of ciprofloxacin.<sup>4</sup> Additionally, in studies demonstrating non-inferiority of 7 days to 14 days for uncomplicated gram-negative bacteremia, men comprised approximately 50% of patients included and urinary source was the majority source (~50-70%).<sup>5-7</sup>

**Key Takeaway:** Male sex alone does not make a urinary tract infection complicated and longer durations of treatment are not routinely needed.

### References:

1. Trautner BW, Cortes-Penfield NW, Gupta K, et al. Clinical Practice Guideline by Infectious Diseases Society of America (IDSA): 2025 Guideline on Management and Treatment of Complicated Urinary Tract Infections. Available at <https://www.idsociety.org/practice-guideline/complicated-urinary-tract-infections/> Accessed 22 July 2025.
2. Nelson Z, Aslan AT, Beahm NP, et al. Guidelines for the Prevention, Diagnosis, and Management of Urinary Tract Infections in Pediatrics and Adults: A WikiGuidelines Group Consensus Statement [published correction appears in JAMA Netw Open. 2024 Dec 2;7(12):e2453497. doi: 10.1001/jamanetworkopen.2024.53497]. *JAMA Netw Open*. 2024;7(11):e2444495. Published 2024 Nov 4. doi:10.1001/jamanetworkopen.2024.44495
3. Drekonja DM, et al. Effect of 7 vs 14 Days of Antibiotic Therapy on Resolution of Symptoms Among Afebrile Men With Urinary Tract Infection: A Randomized Clinical Trial. *JAMA*. 2021 Jul 27;326(4):324-331. doi: 10.1001/jama.2021.9899. PMID: 34313686; PMCID: PMC8317010.
4. Peterson J, Kaul S, Khashab M, Fisher AC, Kahn JB. A double-blind, randomized comparison of levofloxacin 750 mg once-daily for five days with ciprofloxacin 400/500 mg twice-daily for 10 days for the treatment of complicated urinary tract infections and acute pyelonephritis. *Urology*. 2008;71(1):17-22. doi:10.1016/j.urology.2007.09.002
5. Yahav D, Franceschini E, Koppel F, et al. Seven Versus 14 Days of Antibiotic Therapy for Uncomplicated Gram-negative Bacteremia: A Noninferiority Randomized Controlled Trial. *Clin Infect Dis*. 2019;69(7):1091-1098. doi:10.1093/cid/ciy1054
6. von Dach E, Albrich WC, Brunel AS, et al. Effect of C-Reactive Protein-Guided Antibiotic Treatment Duration, 7-Day Treatment, or 14-Day Treatment on 30-Day Clinical Failure Rate in Patients With Uncomplicated Gram-Negative Bacteremia: A Randomized Clinical Trial. *JAMA*. 2020;323(21):2160-2169. doi:10.1001/jama.2020.6348
7. Molina J, Montero-Mateos E, Praena-Segovia J, et al. Seven-versus 14-day course of antibiotics for the treatment of bloodstream infections by Enterobacterales: a randomized, controlled trial. *Clin Microbiol Infect*. 2022;28(4):550-557. doi:10.1016/j.cmi.2021.09.001