

KASIC NEWSLETTER

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Pictured Top: Ashland, KY

Attribution to explorekywildlands.com

KASIC



Leave that Urine Alone!

Asymptomatic bacteriuria (ASB) is defined as the presence of bacteria growing in the urine with $\geq 10^5$ colony forming units (CFU), irrespective of the presence of pyuria, in the absence of signs or symptoms of UTI.

The 2019 IDSA ASB guideline recommends to withhold antibiotics in ASB including patients with altered mental status (AMS) who have no systemic signs of infection. Despite guideline recommendations, ASB treatment remains common due to concern for poor outcomes if antibiotic initiation was delayed.

A retrospective cohort study in JAMA evaluated 11,590 hospitalized patients with ASB, and only 161 (1.4%) developed bacteremia from presumed urinary source. Only 0.7% of patients with ASB and AMS but no systemic signs of infection had bacteremia.

1. Nicolle LE, et al. *Clin Infect Dis*. 2019; 68(10):e83-e110. doi: [10.1093/cid/ciy1121](https://doi.org/10.1093/cid/ciy1121).
2. Advani SD, et al. *JAMA Netw Open*. 2024; 7(3):e242283. doi: [10.1001/jamanetworkopen.2024.2283](https://doi.org/10.1001/jamanetworkopen.2024.2283).

Study supports IDSA guideline recommendation of watch-and-wait strategy in patients with ASB including those with AMS who do not have systemic signs of infections



Pivmecillinam (PIVYA)

The FDA approved pivmecillinam on April 24th, 2024 for uncomplicated urinary tract infections caused by *E. coli*, *Proteus mirabilis*, and *Staphylococcus saprophyticus*. Pivmecillinam is an oral beta-lactam antibiotic with activity against many gram-negative bacteria, including extended-spectrum beta-lactamase (ESBL)-producing Enterobacterales. This agent has been approved in Europe for decades with limited development of antimicrobial resistance observed, making this a valuable new treatment option for urinary tract infections in the United States. It is anticipated to become available for purchase in 2025.

1. FDA Approves New Treatment for Uncomplicated Urinary Tract Infections. FDA. Published 2024. <https://www.fda.gov/news-events/press-announcements/fda-approves-new-treatment-uncomplicated-urinary-tract-infections>.
2. O'Kelly F et al. *BMC Infect Dis*. 2016;16(1):620. doi: [10.1186/s12879-016-1797-3](https://doi.org/10.1186/s12879-016-1797-3).
3. Jacobs A. F.D.A. Approves Antibiotic for Increasingly Hard-to-Treat Urinary Tract Infections. The New York Times. Published 2024. <https://www.nytimes.com/2024/04/24/health/fda-urinary-tract-infection-antibiotic.html>.



KASIC Cases

Each week, a fictional case describing a common antimicrobial stewardship opportunity is posted on X (formerly Twitter) and LinkedIn. Participants are encouraged to answer the poll first and then review the best answer along with an explanation.

Ready to test your antimicrobial stewardship knowledge?

Try out the latest case:

A patient has CLL. She is neutropenic, febrile at 101° F, and admitted to the hospital. Empiric antibiotics are started with an infectious workup. After 72 hours, she has been: afebrile x52 hours, stable, and workup is negative.

What is the best antibiotic plan?

- A. Monitor off antibiotics
- B. Continue until ANC >500
- C. Continue until discharge

[Click here for the BEST answer](#)

[Read more cases here](#)

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Open Season on Tick Bites

Tick season is April - September per the CDC. Our patients, especially those who are outdoor enthusiasts, may be presenting with tick-bite related infections this summer. Refresh your knowledge on tickborne illnesses with the following resources from KASIC and the CDC:

[Norton Infectious Diseases Grand Rounds: Tick Borne Illnesses Webinar](#)

[CDC Tickborne Disease Continuing Education](#)

Latest Clinical Education Pearls: Click to Read!

[Stopping Antibiotics in Necrotizing Fasciitis](#)

[Tackling the Toxin](#)

[Know Your Antifungals: Azoles](#)

[Beat the Bug: Pseudomonas aeruginosa](#)

Norton Infectious Diseases Institute Grand Rounds Educational Series

[Preventing Waterborne Infections in Healthcare: Water Management Webinar](#)

[Click here for Grand Rounds Information](#)