

# KASIC NEWSLETTER

Issue Seven, Volume Two



*Pictured Top: Frankfort, KY  
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## Under the Microscope

### Clinical Microbiology: Top 10 Advances in 10 Years

A [review article](#) published in Antimicrobial Stewardship & Healthcare Epidemiology summarizes paradigm-shifting advances in clinical microbiology. It describes how these innovations are implemented in clinical care and associated challenges.

1. Clinical Decision Support Tools
2. Host Pathogen Response
3. Broad-range sequencing
4. Metagenomic and whole genome sequencing
5. Multiplex panels
6. Rapid susceptibility testing
7. MALDI-TOF MS
8. Home Testing
9. Clinician-lab interface
10. Laboratory consolidation



How can your microbiology lab help you optimize patient care?  
Contact KASIC today to learn more!

## New Pre-Exposure Prophylaxis Drug for COVID-19

The FDA has recently granted Emergency Use Authorization (EUA) to a new pre-exposure prophylaxis therapy for COVID-19. Pemivibart (Pemgarda) is a monoclonal antibody IV infusion administered every 3 months. Clinical trials have shown pemivibart to have minimal adverse events, with the most common adverse event being infusion-related reactions in 4% of patients.

The EUA limits use to populations meeting **all of the following criteria:**

- Adults and adolescents (at least 12 years, 40 kg)
- Not currently infected with or recently exposed to COVID-19
- Moderate to severe immunocompromise and unlikely to mount adequate response to COVID-19 vaccine

**Click here to read the full EUA!**



## 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 female is seen in clinic with recurrent pyelonephritis. Her urine culture grows *K. pneumoniae* with this susceptibility:

Meropenem=R  
TMP/SMX = S  
PIP/TAZ = I

What is the BEST antibiotic choice?

- A. TMP/SMX
- B. Ciprofloxacin
- C. Ceftazidime/Avibactam
- D. Cefiderocol

[Click here for the BEST answer](#)

[Read more cases here](#)

[Follow KASIC on Twitter & LinkedIn](#)

## Ready to take your antimicrobial stewardship skills to the next level?



**Attention: physicians, nurses, nurse practitioners, physician assistants, microbiologists**



The Society of Infectious Disease Pharmacists (SIDP) is offering scholarships to all health professionals for their **Antimicrobial Stewardship Certificate Program**. Participants will receive **FREE training**. Clinicians without specialized training in infectious diseases who identify as an underrepresented minority are eligible.

[Click here to learn more and submit an application!](#)

## Latest Clinical Education Pearls: Click to Read!

[Pyuria ≠ Urinary Tract Infection](#)

[Paying Attention to Procalcitonin](#)

[Procalcitonin in AECOPD](#)

[Pick Your Poison: Linezolid or Vancomycin for MRSA Pneumonia](#)

## Norton Infectious Diseases Institute Grand Rounds Educational Series

[Mold Detection and Identification Techniques](#)

[Click here for Grand Rounds Information](#)

[Hey! Taxonomists! Leave those bugs alone](#)