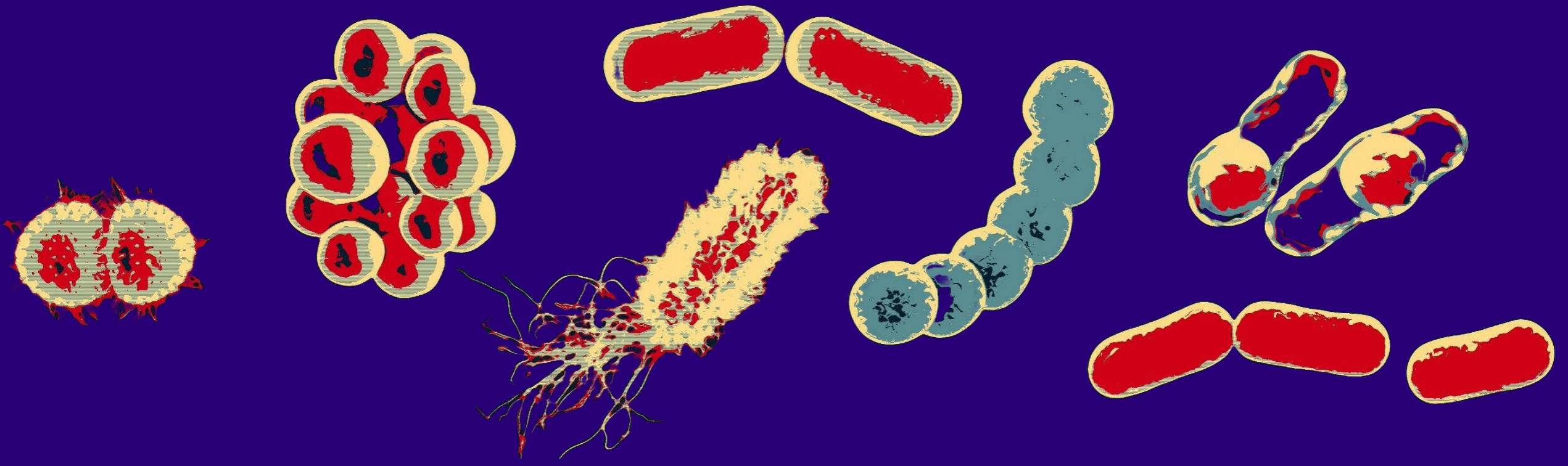


# Early Recognition of AMR—An Opportunity for Improved Diagnosis of Sepsis<sup>1</sup>



## Superbugs increasingly resistant to standard of care practices **POST-PANDEMIC**

**78% increase** in the number of hospital-onset Carbapenem-resistant Acinetobacter infections.<sup>2</sup>

**32% increase** in hospital-onset ESBL-producing Enterobacterales infections.<sup>2</sup>

**32% increase** in hospital-onset Multidrug-resistant Pseudomonas aeruginosa infections.<sup>2</sup>

## Sepsis is a major cause of mortality & morbidity

Affects **49 million people** per year, kills **11 million people** per year.<sup>3</sup>

Approximately **50% of sepsis cases** globally occur in children under 5 years old.<sup>3</sup>

Up to **50% of sepsis survivors** suffer from long-term physical and/or psychological effects.<sup>4</sup>

## Accurate diagnosis decreases the burden of sepsis

U.S. spends estimated **\$62B annually** on sepsis treatment—most costly in-patient condition covered by Medicare.<sup>5</sup>

MicroScan systems use **direct MICs** for the detection of **emerging resistance**, providing accurate and timely results without reliance on historical data.

Antibiotic administration decreases the likelihood of death by **7.6% per hour**.<sup>1</sup>

Beckman Coulter is dedicated to its Microbiology Vision “Accelerating Innovation To Improve Antimicrobial Therapy Decisions For Every Patient.”



1. Paula Rojas-Garcia et al. <https://doi.org/10.3390/antibiotics11010027> –Introduction  
 2. <https://www.cdc.gov/antimicrobial-resistance/media/pdfs/covid19-impact-report-508.pdf> –Pages 15, 16  
 3. <https://www.who.int/news-room/fact-sheets/detail/sepsis> –Key Facts  
 4. <https://www.sepsis.org/sepsis-basics/post-sepsis-syndrome/>  
 5. Buchman TG, et al. <https://DOI:10.1097/CCM.0000000000004225>