Treatment for MRSA no longer more costly than for susceptible Staph aureus infections
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A new study from the Center for Disease Dynamics, Economics & Policy (CDDEP), with collaborators from Johns Hopkins University and University of Texas Southwestern Medical Center, found that infections caused by one of the most common drug resistant bacteria in the US—methicillin-resistant Staphylococcus aureus, known as MRSA—are no more expensive to treat than MSSA, the methicillin-susceptible version of the same bacteria. These findings, published in the journal *Clinical Infectious Diseases*, are contrary to earlier studies that have found that MRSA was significantly more expensive than MSSA infections.

"Contrary to historical studies at the hospital-level, which suggested that MRSA infections were significantly more expensive than MSSA infections, nationally we found that MRSA-related hospitalization costs were approximately the same as or less expensive than hospitalizations with MSSA infections," according to the study’s lead author Dr. Eili Klein, Research Fellow at CDDEP. However, researchers noted that patients with MRSA infections had a greater likelihood of mortality than patients with MSSA.

One potential reason for the convergence in costs of treating MSSA and MRSA is the emergence and spread of community-associated strains of MRSA. These strains, which are genetically distinct from hospital-associated strains and have different infection patterns and antibiotic susceptibilities, surged in the early 2000s. This may have led physicians to empirically treat all potential *S. aureus* infections as if they were MRSA, which may have improved outcomes and costs for treating infected MRSA patients while increasing costs for treatment of MSSA patients.

The study was unable to determine if the change was a function of improved diagnostic tests, better empiric prescribing, or changes in hospital infection control. "Changes in the health insurance system may have also affected hospital care and treatment costs," continued Dr. Klein. "Further research is needed to better understand the underlying reasons for the change and the implications of this research for the broader crisis of antibiotic resistance."

Provided by Center for Disease Dynamics, Economics & Policy

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