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## **Clostridioides difficile Toxins and Virulence Factors**

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# Message from the Guest Editor

Clostridioides infection (CDI) is a major public health problem worldwide. *C. difficile* is responsible for 10%–25% of cases of antibiotic-associated diarrhea, 50%-75% of antibiotic-associated colitis. and 90%-100%  $\circ f$ pseudomembranous colitis. Morbidity and mortality resulting from CDI-associated diseases have also increased significantly over the past ten years, making C. difficile one of the most important emerging antibiotic-associated diarrheagenic pathogens in the world. As a result, the U.S. Centers for Disease Control and Prevention has designated C. difficile as an urgent threat. The risk for CDI increases with broad-spectrum antibiotics use, which disrupts the native gut microbiota, allowing C. difficile to proliferate. Other CDI-associated risk factors include old age, use of acid-suppressing drugs, comorbidities, gastric immunodeficiency, and inflammatory bowel disease. C. difficile virulence is largely dependent on the production of the toxins which are directly responsible for the disease. This Special Issue will cover recent findings on C. difficile toxins, as well as important virulence factors involved in its pathogenesis.













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