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Microbiome as mediator: Do systemic infections start in the gut?

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Abstract

The intestinal microbiome is emerging as a crucial mediator between external insults and systemic infections. New research is emerging to suggest that our intestinal microorganisms contribute to critical illness and the development of non-gastrointestinal infectious diseases. Common pathways include a loss of fecal intestinal bacterial diversity and a disproportionate increase in toxogenic bacterial species. Therapeutic interventions targeting the microbiome—primarily probiotics—have yielded limited results to date. However, knowledge in this area is rapidly expanding and microbiome-based therapy such as short-chain fatty acids may eventually become a standard strategy for preventing systemic infections in the context of critical illness.

Keywords: *Clostridium difficile*; microbiome; critical illness; short-chain fatty acids; probiotics

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