

Review

Outbreaks of Fungal Infections in Hospitals: Epidemiology, Detection, and Management

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Abstract: Nosocomial clusters of fungal infections, whilst uncommon, cannot be predicted and are associated with significant morbidity and mortality. Here, we review reports of nosocomial outbreaks of invasive fungal disease to glean insight into their epidemiology, risks for infection, methods employed in outbreak detection including genomic testing to confirm the outbreak, and approaches to clinical and infection control management. Both yeasts and filamentous fungi cause outbreaks, with each having general and specific risks. The early detection and confirmation of the outbreak are essential for diagnosis, treatment of affected patients, and termination of the outbreak. Environmental sampling, including the air in mould outbreaks, for the pathogen may be indicated. The genetic analysis of epidemiologically linked isolates is strongly recommended through a sufficiently discriminatory approach such as whole genome sequencing or a method that is acceptably discriminatory for that pathogen. An analysis of both linked isolates and epidemiologically unrelated strains is required to enable genetic similarity comparisons. The management of the outbreak encompasses input from a multi-disciplinary team with epidemiological investigation and infection control measures, including screening for additional cases, patient cohorting, and strict hygiene and cleaning procedures. Automated methods for fungal infection surveillance would greatly aid earlier outbreak detection and should be a focus of research.

Keywords: fungi; nosocomial; outbreak; whole genome sequencing; genotyping; yeast; mould; infection prevention



Citation: Douglas, A.P.; Stewart, A.G.; Halliday, C.L.; Chen, S.C.-A. Outbreaks of Fungal Infections in Hospitals: Epidemiology, Detection, and Management. *J. Fungi* **2023**, *9*, 1059. <https://doi.org/10.3390/jof9111059>

Academic Editor: Ivana Manekovic

Received: 17 September 2023

Revised: 17 October 2023

Accepted: 26 October 2023

Published: 29 October 2023



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1. Introduction

Invasive fungal diseases (IFDs) are recognized as a global health concern by the World Health Organization (<https://www.who.int/publications/i/item/9789240060241> [accessed on 7 July 2023]) and are caused by an increasing breadth of yeast, filamentous fungi, and dimorphic fungi pathogens. As fungi are ubiquitous in nature, clusters of infection can and have occurred, not only in the community but as nosocomial infection when there is transmission or acquisition of fungi in the healthcare environment. Some yeast pathogens, such as *Candida* spp., tend to colonize the skin and gastrointestinal and genitourinary systems in normal hosts and have not often been as readily recognized as nosocomial pathogens as moulds. However, with the advent of *Candida auris* infections and with more sophisticated pathogen identification and typing methods, the ability of other

Epidemiology Of Hospitalassociated Infections

Terry C. Jones



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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Epidemiology Of Hospitalassociated Infections**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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