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Retrospective Study

Ventilator-associated pneumonia in patients with cancer. Impact of multidrug resistant bacteria

Cornejo-Juárez P *et al.* VAP and MDR bacteria in patients with cancer

Patricia Cornejo-Juárez, Ivan González-Oros, Paola Mota-Castañeda, Diana Vilar-Compte, Patricia Volkow-Fernández

Abstract

BACKGROUND

Patients with cancer have several risk factors for developing respiratory failure requiring mechanical ventilation (MV). The emergence of multidrug resistant

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Ventilator-associated pneumonia in patients with cancer



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Multidrug-resistant (MDR) organisms in **ventilator-associated pneumonia** were found in 49 of 107 **patients** and were associated with home **antibiotics**, **pre-ventilator-associated pneumonia** hospital stay, and **health care exposure**. Overall, MDR organisms were associated with increased mortality ($P = .006$). On **multivariate** analysis, MDR status was modulated by organism class.

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INTRODUCTION: Ventilator-associated **pneumonia** (VAP) remains one of the most common nosocomial infections in the Intensive Care Unit. In the face of extremely high rates of antimicrobial **resistance**, it is essential to gauge the clinical significance of isolation **of multidrug-resistant** ...

Author: Surbhi Khurana, Purva Mathur, Subod... Publish Year: 2017

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Ventilator-associated pneumonia

Ventilator-associated pneumonia is a type of lung infection that occurs in people who are on mechanical ventilation breathing machines in hospitals. As such, VAP typically affects critically ill persons that are in an intensive care unit. VAP is a major source of increased illness and death. Persons with VAP have increased lengths of ICU hospitalization and have up to a 20–30% death rate. The diagnosis of VAP varies among hospitals and providers but usually requires a new infiltrate on chest x-ray plus two or more other factors. These factors include temperatures of $>38^{\circ}\text{C}$ or $<36^{\circ}\text{C}$, a white blood cell count of $>12 \times 10^9/\text{ml}$, purulent secretions from the airways in the lung, and/or reduction in gas exchange.

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