



Keywords: Bacterial meningitis, Hospital-acquired pneumonia, Intensive care unit, Nosocomial pneumonia, Ventilator-associated pneumonia

Abstract: Bacterial meningitis is a life-threatening infection of the meninges, the protective layers of the brain and spinal cord. It is caused by various bacteria, including Streptococcus pneumoniae, Neisseria meningitidis, and Listeria monocytogenes. Hospital-acquired pneumonia (HAP) is a lung infection that occurs in patients who have been hospitalized for at least 48 hours. It is caused by various bacteria, including Klebsiella pneumoniae, Pseudomonas aeruginosa, and Acinetobacter baumannii. Intensive care unit (ICU) pneumonia is a type of HAP that occurs in patients who have been in the ICU for at least 48 hours. It is caused by various bacteria, including Acinetobacter baumannii, Pseudomonas aeruginosa, and Klebsiella pneumoniae. Nosocomial pneumonia is a type of HAP that occurs in patients who have been hospitalized for at least 48 hours. It is caused by various bacteria, including Klebsiella pneumoniae, Pseudomonas aeruginosa, and Acinetobacter baumannii. Ventilator-associated pneumonia (VAP) is a type of HAP that occurs in patients who have been on a mechanical ventilator for at least 48 hours. It is caused by various bacteria, including Acinetobacter baumannii, Pseudomonas aeruginosa, and Klebsiella pneumoniae.

- **Cross-species transmission**, Bacterial meningitis, Hospital-acquired pneumonia, Intensive care unit, Nosocomial pneumonia, Ventilator-associated pneumonia

Emerging challenges

In recent years, several emerging challenges have been identified in the field of air and waterborne diseases. These challenges include the increasing incidence of antibiotic-resistant bacteria, the impact of climate change on disease distribution, and the growing burden of non-communicable diseases.

- **Climate change effects**, Air and waterborne diseases, Emerging challenges, Hospital-acquired pneumonia, Intensive care unit, Nosocomial pneumonia, Ventilator-associated pneumonia

- **Urbanization and changing lifestyles**, Air and waterborne diseases, Emerging challenges, Hospital-acquired pneumonia, Intensive care unit, Nosocomial pneumonia, Ventilator-associated pneumonia

- **Global trade and travel**, Air and waterborne diseases, Emerging challenges, Hospital-acquired pneumonia, Intensive care unit, Nosocomial pneumonia, Ventilator-associated pneumonia

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