

Aerosol transmission route of respiratory pathogens and their mitigation strategies

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ABSTRACT

Infectious diseases occur when three elements (infectious agents, susceptible persons and transmission routes) overlap, and a susceptible person is exposed to an amount of pathogen that exceeds the threshold of dose-response relationship. In early 2020, WHO pointed out that the transmission routes of SARS-CoV-2 were contact transmission and droplet transmission, with no airborne transmission. However, two years later, on December 23, 2021, the WHO referred to "long-range aerosol or long-range airborne transmission. Measures against aerosol propagation paths are now becoming important. This presentation will discuss the characteristics of aerosol transmission route of respiratory pathogens and their mitigation strategies.

KEYWORDS

COVID-19, SARS-CoV-2, transmission route, aerosol transmission, mitigation strategies