



# COVID-19 and RSV: Coinfection Requiring Hospitalization

**Urgent message:** Coinfection with COVID-19 and other respiratory pathogens can lead to a worsening clinical picture and requires careful assessment in the urgent care center.

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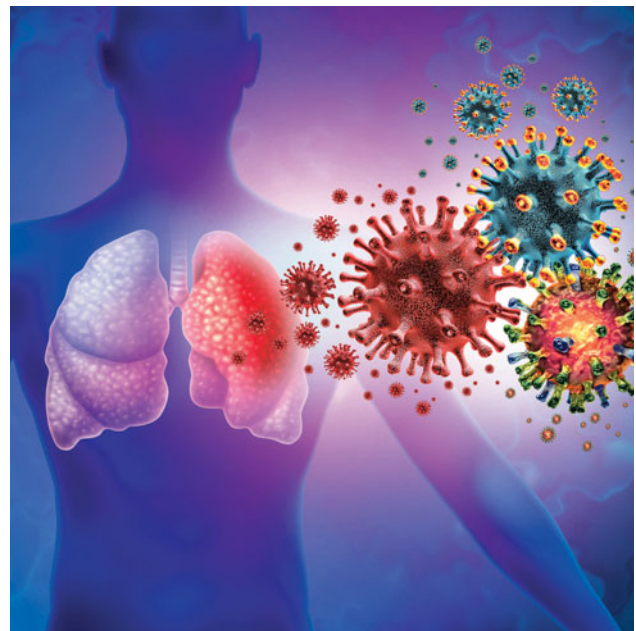
## Abstract

Patients who present with symptoms suspicious for COVID-19 and other respiratory conditions, regardless of vaccination status, may require a higher acuity of medical care (although mortality may not be affected). This case report describes a patient with COVID-19 and respiratory syncytial virus coinfection which necessitated hospital care despite the individual being vaccinated against COVID-19.

## Introduction

During the autumn of 2022, clinicians saw the rise of three different respiratory pathogens: COVID-19, respiratory syncytial virus (RSV), and influenza. This allowed for the possibility of coinfections among these three viruses.

Although research is still evolving in this area, available studies have found that individuals coinfecting with influenza required higher use of ICU and mechanical ventilation.<sup>1,3</sup> However, there was no increase in mortality.<sup>1,3</sup> Less research is available for coinfections with RSV as studies generally found lower numbers of this compared with influenza. There appears to be a similar trend of more medical treatment modalities needed,



but no increase in mortality.<sup>1,2</sup>

The following is a case presentation of a vaccinated individual with a coinfection requiring hospitalization.

## Patient Information

A 69-year-old male presented with a 3-day history of sore throat, cough, nasal congestion, subjective fever, and minimal dyspnea. He had exposures to several family members who were diagnosed with pneumonia, but denied exposure to COVID-19. His past medical

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