

عنوان مقاله:

Bacterial Infections associated with COVID-19 and the effect of using many common antibiotics in the treatment these infections

محل انتشار:

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نویسنده:

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خلاصه مقاله:

Background and Objective: Undetected coinfections in COVID-19 patients may have serious clinical consequences, including increased hospitalization and mortality. The current study was conducted on ۴۵۵ patients diagnosed with the new epidemic coronavirus disease who were admitted to quarantine halls in Diwaniyah in Iraq for one month, from February ۲۰۲۱ to March ۲۰۲۱. The aim of the study was to investigate secondary bacterial infections associated with the virus and the effect of using some commonly used antibiotics such as azithromycin, Beta-lactam, ciprofloxacin, and ceftriaxone. Methods: Sputum samples were collected from all patients who tested positive for COVID-19 (Real-Time PCR) seven days after confirming the infection with the virus. The samples were streaked on a group of culture media, then transferred to pure cultures and diagnosed, and their sensitivity to antibiotics was determined using the Vitek ۲ compact system technique. Results: According to the findings, the two strains of methicillin-resistant and Staphylococcus aureus sensitive were the most common isolated species with a percentage of ۸۵%, followed by Pseudomonas aeruginosa ۷۸%, in addition to Streptococcus pneumonia ۶۰%, Acinetobacter baumannii ۶۴%, and Legionella pneumophila ۶۰%. Also, many fungi were observed. Most isolated strains were resistant to antibiotics used in the study. Conclusion: The study concluded that these antibiotics have no role in treating the infection. Still, it may contribute to the emergence of new, multi-drug resistant MDR species, resulting in increased mortality rates. Also, excessive use of antibiotics may lead to increased mortality.

کلمات کلیدی:

,Azithromycin, Ciprofloxacin, COVID-۱۹, Coinfection, Staphylococcus aureus, Vitek ۲ compact system
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