



# COVID-19 AND SOLID ORGAN TRANSPLANTATION: A REVIEW ARTICLE

## Clinical presentation



❖ SARS-CoV-2 causes a unique and inappropriate inflammatory response leading to Cytokine Storm



❖ Solid organ transplant recipients with COVID-19 are more likely to have:

- multiple comorbidities,
- to be hospitalized,
- to be admitted to the ICU
- to develop acute kidney injury



## Mortality

❖ Mortality rates reported between 13 to over 30% in solid organ transplant recipients

❖ Risk factors associated with mortality:

- Older age
- Increased inflammatory markers



❖ Transplant activity during pandemic should be tailored with careful selection of both donor and recipients



## Treatment

❖ Supportive care remains a mainstay of treatment



❖ Remdesivir and high dose steroids have shown some efficacy in patients requiring oxygen supplementation



Azzi et al. *Transplantation*. January 2021

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