Use of remdesivir in severe Sars-CoV-2 pneumonia

in critically and non-critically ill patients

NOBRE, M.¹ and RODRIGUES, V.²

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- 1. Pharmacist Hospital Prof. Dr. Fernando Fonseca EPE
- 2. Hospital Pharmacy Director Hospital Prof. Dr. Fernando Fonseca EPE

1. Background and Importance

Severe Sars-CoV-2 pneumonia (Covid-19) is causing an increasing number of deaths worldwide because no effective treatment is available. Remdesivir has shown in vitro activity against coronaviruses and is being used as an antiviral treatment for Covid-19.

3. Materials and Methods

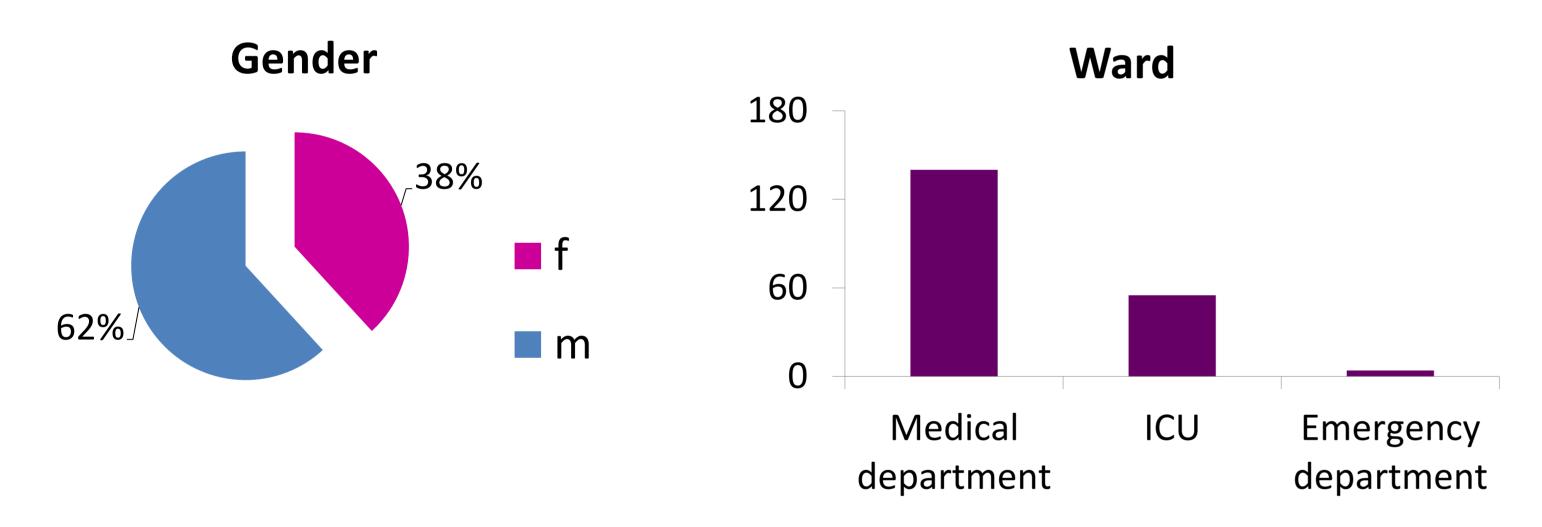
A retrospective study was conducted at 800-bed hospital between March 2020 and June 2021 involving patients with Covid-19, age over 18 and undergoing treatment with remdesivir. Information was extracted from hospital files (Soarian and Hosix VB). Data was analyzed using Microsoft Excel, descriptive and inferential statistics.

2. Aim and objectives

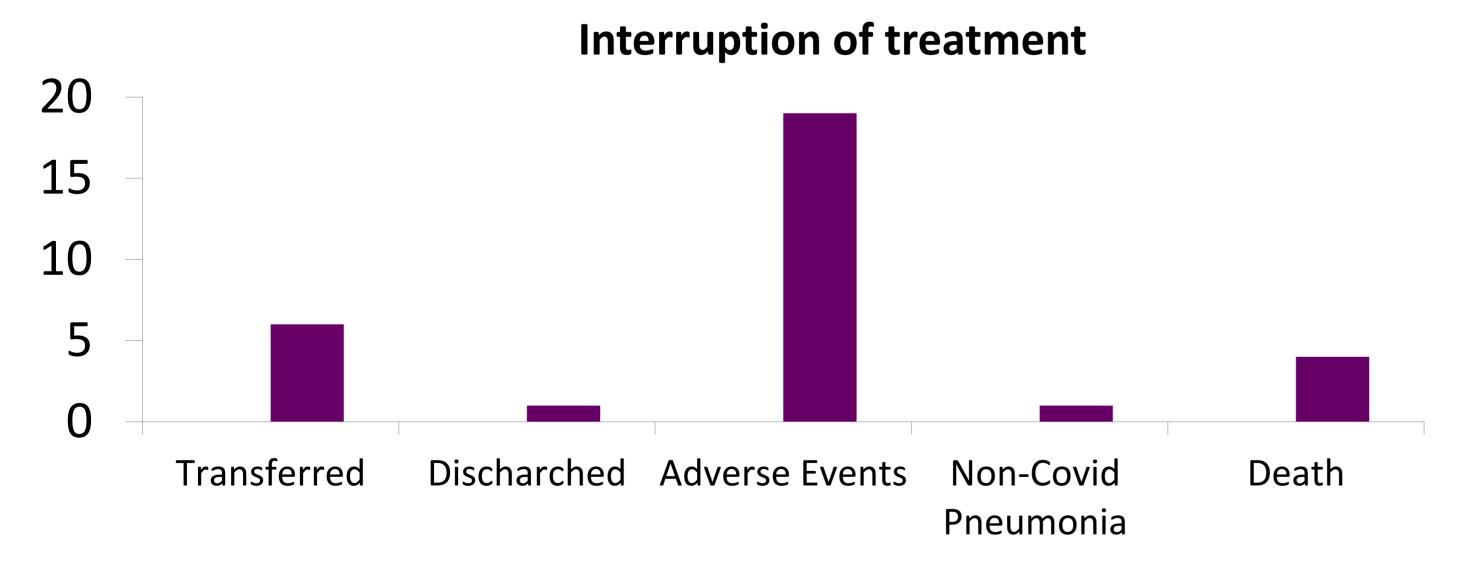
Evaluate the use and results of remdesivir treatment in hospital setting

4. Results

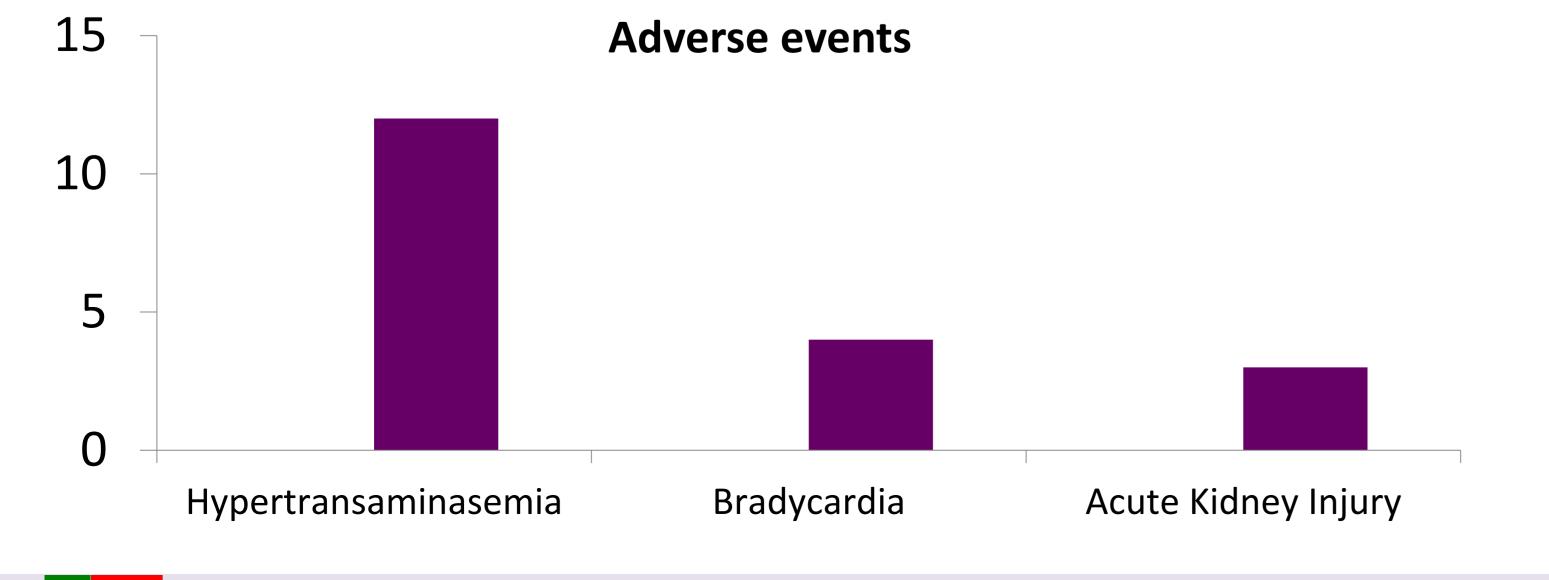
■ 199 patients were enrolled in the study, with an average age of 64,2 years, mainly men and staying in Medical wards:



- 168 (84%) patients completed treatment with remdesivir
- 31 (16%) patients interrupted treatment, 19 due to adverse events, and 4 patients died



The main adverse events were hypertransaminasemia, bradycardia and acute kidney injury



- All patents with hypertransaminasemia improved. 2 of the 3 patients with acute kidney injury improved. Half of the patients (n=2) that stopped treatment with remdesivir due to bradycardia died
- Overall, 154 (77%) patients were discharged, 40 (20%) died
- 25 (77%) deaths occurred in ICU patients and 6 (21%) of which had adverse events with remdesivir
- Age above 75 was associated with ICU stay (p=0,027, p<0,05)

5. Conclusions and Relevance

- Clinical improvement was observed in the majority of patients treated with remdesivir
- Adverse events were frequent, mainly hypertransaminasemia, bradycardia and acute kidney injury
- Most deaths occurred in ICU patients
- Data suggests that remdesivir can benefit patients with Covid-19
- Ongoing randomized controlled trials will clarify remdesivir efficacy and safety

6. References and Acknowledgements

Spinello Antinori et al. Compassionate remdesivir treatment of severe Sars-Cov-2 pneumonia in intensive care unit (ICU) and Non-ICU patients: Clinical outcome and differences in post-treatment hospitalisation on status. In Pharmacological Research, 158 (2020) 104899