Stendiniai pranešimai

Lietuvos infektologų draugijos narių stendiniai pranešimai, pristatyti Europos klinikinės mikrobiologijos ir infekcinių ligų kongrese (*ECCMID 2023*) 2023 metais balandžio 15–18 dienomis Kopenhagoje (Danija)

Vilnius University Vilnius University SYSTEMIC DEXAMETHASONE PLUS REMDESIVIR AND DEXAMETHASONE ALONE EFFECT ON IN-HOSPITAL MORTALITY AMONG COVID-19 PATIENTS HOSPITALIZED IN THE UNIVERSITY HOSPITAL, LITHUANIA		
 Ieva Kubiliute¹, Jurgita Urboniene², Fausta Majauskaite¹, Birute Zablockiene¹, Ligita Jancoriene¹ ¹Clinic of Infectious Diseases and Dermatovenerology, Institute of Clinical Medicine, Faculty of Medicine, Vilnius University, Vilnius, Lithuania ²Center of Infectious Diseases, Vilnius University Hospital Santaros Klinikos, Vilnius, Lithuania ²Background Systemic corticosteroids and remdesivir are the most prescribed treatment options for hospitalized COVID-19 patients requiring supplemental oxygen or ventilation. The objective of this study was to evaluate the effect of the treatment with systemic dexamethasone plus remdesivir, systemic dexamethasone alone and usual treatment (no remdesivir, no dexamethasone) on in-hospital mortality of COVID-19 patients. Methods COVID-19 positive adults hospitalized in Vilnius University Hospital Santaros Klinikos, Lithuania, were included in this retrospective cohort study between March 2020 and May 2021. Depersonalized data were retrieved from electronic medical records. Participants were divided into three groups according to the treatment they received: Systemic dexamethasone + remdesivir Systemic dexamethasone Usual treatment (no remdesivir, no dexamethasone) Mann – Whitney U test or x² test was used to compare variables, linear regression – to evaluate variation in level of blood inflammatory markers, and Cox proportional hazards regression – to evaluate treatment effect on in-hospital mortality within 30 days after hospitalization. p-value < 0.05 was considered significant. 		
 Results A total of 2552 patients were included in this stu 		Usual treatment
Systemic dexamethasone + remdesivir 747 (29.3%)	Systemic dexamethasone 803 (31.5%)	Usual treatment 1002 (39.3%)
 The age median was 59 (IQR 48 – 70) years, 45.3% were woman. Remdesivir was administered for median 5 (IQR 5–5) days, maximum 10 days. Systemic dexamethasone was administered for median 8 (IQR 4–10) days in systemic dexamethasone group and 9 (IQR 7–10) days in systemic dexamethasone plus remdesivir group. During the first 10 days after admission, C-reactive protein and interleukin 6 levels decreased in all treatment groups with no statistically significant differences in the rates of decline (Figure 1). The treatment combination of systemic dexamethasone plus remdesivir was associated with decreased in-hospital mortality (HR 0.58; 95%CI 0.41–0.81, p=0.002), while the treatment with dexamethasone alone effect was not significant (HR 1.12; 95%CI 0.87–1.44, p=0.397) compared to usual treatment group. The Kaplan–Meier survival curve is shown in Figure 2. 		
Interleukin 6	1.00-	Treatment group
Junctic protein	9 10 s remdesivir 9 10 0.85- 0.80- 0.80- 0.75- 0.75- 0.75-	¹ Usual cre Dexamethasone + remdesivir 10 15 20 25 30 Time, days
Figure 1. Variation of blood serum inflammatory mar by treatment group.	kers, stratified Figure 2. The Kaplan–I stratified by treatment g	Meier survival curve of hospitalized patients' survival,
 Conclusions Treatment with systemic dexamethasone or the combination of systemic dexamethasone with remdesivir had comparable impact on reduction of inflammatory blood serum markers in COVID-19 patients. Treatment combination of systemic dexamethasone plus remdesivir 1.7 times decreases the hazard of 30 days in-hospital mortality, while systemic dexamethasone has no effect on it. 33rd ECCNUD EUROPEAN CONGRESS OF Copenhagen, Denmark 		
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