PANLAR 2022 - Abstract Submission

COVID-19

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Glucocorticoids, Rituximab And Interstitial Lung Disease Are Associated With Poor Outcomes Of The Sars-Cov-2 Infection In Patients With Rheumatoid Arthritis: Data From The National Sar-Covid Registry.

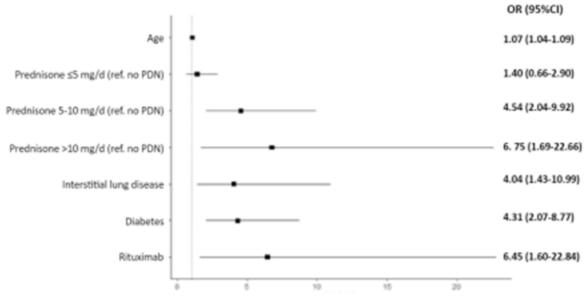
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Objectives To assess clinical characteristics, severity and factors associated with poor COVID-19 outcomes in patients with rheumatoid arthritis (RA).

Methods SAR-COVID is a national, longitudinal and observational registry. Patients of \geq 18 years old, with diagnosis of RA (ACR-EULAR 2010 criteria) who had confirmed SARS-CoV-2 infection (RT-PCR or positive serology) were included between 13-8-20 and 31-7-21. Sociodemographic, clinical data, comorbidities, disease activity and treatment at the moment of the infection were collected. Clinical data of the infection was registered. Infection severity was assessed using the WHO-ordinal scale (WHO-OS)¹. A cut-off value of \geq 5 identified patients with severe COVID-19 and those who died.

Results A total of 801 patients were included, with a mean age of 53±13 years, 84% were female and median (*m*) disease duration was 8 years (IQR 4-14). One third were in remission and 46% had comorbidities, hypertension (26%), dyslipidemia (13%), obesity (13%) and diabetes (9%). Moreover, 3% had interstitial lung disease (ILD). At SARS-CoV-2 diagnosis, 42% were receiving glucocorticoids (GC), 74% conventional (c) disease modifying antirheumatic drugs (DMARD), 24% biologic (b) DMARD and 9% targeted synthetic (ts) DMARD. During the SARS-CoV-2 infection, 27% required hospitalization and 4% died due to COVID-19. A total of 7% met WHO-OS≥5; they were older (63±12vs52±12,

p<0.001), had more frequently ILD (18%vs2%, p<0.001), comorbidities (82% vs 43%, p<0.001), treatment with GC (61% vs 40%, p=0.04) and RTX (8% vs 1%, p=0.007). In multivariable analysis, older age, the presence of diabetes, ILD, the use of GC and RTX were significantly associated with WHO-OS≥5 (Img.1). Furthermore, older age (65±10vs52±12, p<0.001), the presence of comorbidities (88%vs45%, p<0.001), chronic obstructive pulmonary disease (22%vs5%, p=0.002), diabetes (30% vs7.9%, p<0.001), hypertension (57%vs25%, p<0.001), cardiovascular disease (15%vs3%, p=0.005), cancer (9%vs1%, p=0.001), ILD (23%vs2%, p<0.001) and the use of GC (61% vs 41%, p=0.02) were associated with mortality. Older age [OR 1.1 IC95% 1.06-1.13] and the use of 5-10 mg/day GC [OR 4.6 IC95% 1.8-11.6] remained significantly associated with death in the multivariable analysis.



Conclusion Treatment with RTX and GC, older age, diabetes and ILD were associated with poor COVID-19 outcomes. Older patients and those taking GC had a higher mortality rate.

Reference 1 World Health Organization coronavirus disease (COVID-19) Therapeutic Trial Synopsis Draft 2020.