COVID-19 and your rheumatology patients

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■ ABSTRACT

The COVID-19 pandemic has caused a sense of unease in the rheumatology community about the risk to patients with immune-mediated diseases, given their predisposition to infection due to underlying disease states and immunosuppressive therapies. Thus far, there have been few cases of COVID-19 reported in patients with immune-mediated diseases and there have been no formal guidelines released on the management of patients with immune-mediated diseases in the setting of COVID-19. Results of clinical trials and data from the Global Rheumatology Alliance registry are eagerly awaited to gain further insight into the impact of this novel infection on our vulnerable patient population.

■ RHEUMATOLOGY AND COVID-19

Since the start of the COVID-19 pandemic, there has been a growing sense of unease in the rheumatology community about the risk to our patients with immune-mediated diseases, given their predisposition to infection due to underlying disease states and immunosuppressive therapies. It’s only natural for us to assume that patients with immune-mediated diseases will be at increased risk of COVID-19 infection and its complications. However, there are essentially no data to suggest this to date. Results of a European experience in Lombardy, Italy, with COVID-19-positive rheumatic disease patients were reported in a very small numbers. Compared with other regions of Italy, Lombardy has seen the highest incidence of COVID-19, with almost 55,000 cases reported. Monti et al circulated a survey to patients with chronic arthritis treated with conventional or biologic disease-modifying antirheumatic drugs, and out of 320 responses, 4 patients had confirmed COVID-19, and 4 had probable infection. One patient required hospital admission for supplemental oxygen, and all recovered without incident.

Of course these findings in no way allow us to draw conclusions about the incidence of COVID-19 in patients with immune-mediated diseases or the clinical outcomes. Yet they add to our observation that thus far, there have been few cases of COVID-19 reported in patients with immune-mediated diseases. Interestingly, these authors also observed that out of 700 patients hospitalized in the ICU with severe COVID-19, none were receiving conventional or biologic disease-modifying drugs at baseline. A single case-series of 21 patients with COVID-19 at Evergreen Hospital in Kirkland, WA, included 1 patient with “rheumatologic disease,” and 2 with a history of solid-organ transplant. So far, this is quite different than the influenza experience in patients with immune-mediated diseases, where it is well known that immunosuppressed patients have a greater risk of influenza, morbidity from influenza, and prolonged viral shedding.

While many questions remain unanswered surrounding the risk of COVID-19 in rheumatology patients, the above observations and anecdotes serve to reinforce how we counsel our patients during this pandemic. Many patients wonder if they should stop their immunosuppression, or hold off on starting or switching to a new biologic due to fear of COVID-19. At the time of this publication, there have been no formal guidelines released on the management of patients with immune-mediated diseases in the setting of COVID-19. However, the American College of Rheumatology has released suggestions for clinical decision-making that support keeping scheduled infusion appointments and making decisions regarding intra-articular joint injections on a case-by-case basis, as well as recommendations regarding telemedicine.

We recommend that patients continue to present for scheduled biologic infusions, as missing or postponing these appointments could lead to disease flare, requirement for increasing doses of glucocorticoids,
possible increased exposure to the healthcare setting or even hospitalization. Of course, these decisions should be made on a case-by-case basis. For example, intravenous abatacept infusion for a rheumatoid arthritis patient whose disease is in remission may be less urgent than for a patient with granulomatosis with polyangiitis who is due for rituximab.

Many would categorize infusion medications for osteoporosis treatment as “nonessential” during COVID-19; however, we should approach denosumab differently, as fracture risk increases rapidly after discontinuation of this drug. Regardless of COVID-19, it is recommended that patients discontinuing denosumab be rapidly transitioned to an anti-resorptive agent. Thus, at present, patients unable to present for denosumab should be started on an oral bisphosphonate for the short-term. Alternatively, if the patient has a healthcare provider in the family, the drug could potentially be shipped to the patient’s home for administration.

We also recommend that patients continue their immunosuppressive medications and not stop them pre-emptively, and this is aligned with other expert opinion. Hydroxychloroquine, used frequently in the treatment of systemic lupus erythematosus, rheumatoid arthritis, and other immune-mediated diseases, is now under the spotlight as a treatment for COVID-19, as many targeted therapies we use to treat immune-mediated diseases are candidates for treatment of COVID-19 (anti-IL-1, IL-6, TNF, to name a few). We anxiously await results of clinical trials and data from the Global Rheumatology Alliance registry to gain further insight into the impact of this novel infection on our vulnerable patient population.

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