



Mahalul Azam &lt;mahalul.azam@mail.unnes.ac.id&gt;

## Asian J Sports Med | ID 111040, rev[1] | You're Invited to Review

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Wed, Feb 17, 2021 at 4:38 AM

Journal: Asian Journal of Sports Medicine

**Manuscript ID:** Musculoskeletal problems in patients with Covid-19: A review study

**Title:** 111040

**Revision:** [1]

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- **Associate Editor:** Dr. Vahid Ziaee
- **Abstract:**
- Context: SARS-CoV-2 is a coronavirus, belonging to the beta-coronavirus group, that primarily targets the human respiratory system and causes symptoms similar to those of pneumonia. It should be noted that clinical symptoms of patients with Covid-19 vary in different people. These patients do not only experience respiratory problems. In fact, Covid-19 infection may show a variety of symptoms including fever, shortness of breath, dry cough, nasal congestion, sore throat, nausea, vomiting, myalgia, arthralgia, fatigue (muscular and mental), joint swelling, headache, diarrhea as well as some musculoskeletal symptoms. Therefore, the aim of this article was to investigate the major musculoskeletal problems in patients with Covid-19 through a narrative review study. Evidence Acquisition: This study collected the related published studies in the pubmed, Science direct, and google scholar source between 2019-2020. The main keywords were COVID-19, coronavirus and musculoskeletal problem such as muscle fatigue, myalgia, arthralgia and joint swelling. Results: The major musculoskeletal symptoms include muscle fatigue (25.6%), myalgia, and arthralgia (15.5%), joint swelling (as reactive arthritis) and such conditions as joint limitations, tendon shortening and muscle weakness due to prolonged bed rest. Conclusion: Our findings revealed that attention to musculoskeletal rehabilitation of patients with Covid-19 is as essential as their respiratory rehabilitation. Besides, it would be effective in reducing the physical complications of hospitalization, returning to independence and functional activities and improving the quality of the patients' life.

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Mahalul Azam &lt; mahalul.azam@mail.unnes.ac.id &gt;

**Asian J Sports Med | ID: 111040 | Review is submitted**

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