Evaluation of Lower Urinary Tract Symptoms in patients with COVID-19 Infection



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INTRODUCTION

The main symptoms in patients infected with SARS-CoV-2 (Covid-19) novel virus are respiratory such as cough, hypoxia and shortness of breathing. However, some studies found involvement with other organs, such as cardiovascular, gastrointestinal and urinary systems.

Lower Urinary Tract Symptoms (LUTS) mainly Urinary urgency and frequency related to Covid-19 infection was also described and reported in addition to hematuria..

RESULT

- A total of 407 people with a mean±SD age of 43±12 years (range 18 to 75) agreed to participate.
- 252 (62%) were females and 155 were male (38%).
- Of the participants, 13% have cardiac problems, 11% have diabetes mellitus, and 72% were healthy.
- 179 (44%) reported to have Covid-19 infection, from which 53 (30%) were health care providers. Among those infected, 19% reported feeling of an urgency, 27% increase in frequency, 15% woke up at night to urinate more frequently; 10% reported experiencing increased in overall LUTS during the infection, but 13% reported experiencing these symptoms following recovery.

OBJECTIVES

To assess and identify the effect of Covid-19 infection on lower urinary tract symptoms manifestation on the patient with COVID-19

METHODS AND MATERIALS

Study design and setting

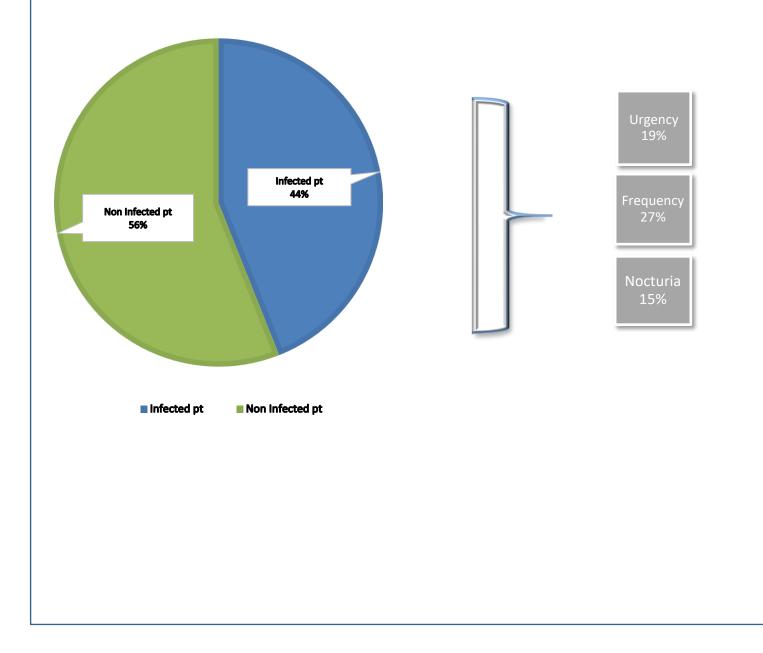
A cross-sectional observational study.

Study subject

General population, adult age group.

Data collection and measurement

 Compared to those infected, none of the non-infected ones experienced the aforementioned symptoms.
Only 15% from those infected sought medical advice, and the majority (91%) said that their urinary symptoms did not affect their social lives.



CONCLUSION

A validated predesigned questionnaire about overactive bladder symptoms was modified to evaluate the effect of Covid-19 infection on lower urinary tract symptoms.

It was distributed as an electronic software questionnaire during May 2022.

According to our findings, Covid-19 positive cases may suffer from an increase incidence in lower urinary tract symptoms with different levels of severity compared to the non-Covid-19 patients . More studies with larger sample size are required to explore this issue.

References

1. World Health Organization. COVID-19 clinical management: living guidance, 25 January 2021. No. WHO/2019- nCoV/clinical/ 2021.1. World Health Organization, 2021.

2. Marand, Aida Javan Balegh, et al. Lower urinary tract signs and symptoms in patients with COVID-19. BMC Infectious Diseases, 2021.

3. Bani-Hani M, Alnifise M, Al-Zubi M, Albazee E, Al-Balawi M, Majeed H, et al. Evaluation of lower urinary tract symptoms among male COVID-19 patients during the second wave: An observational study. Urol Ann 2022;14:372-6.