

## **Covid-19 Frontliners Survey: Assessing Complications and Quality of Life in Health Care Workers in District Swat, Khyber Pakhtunkhwa, Pakistan**

**Authors :** Mohsin Shahab, Shagufta Rehmat, Faisal F. Khan

**Abstract :** Background: The global COVID-19 pandemic has generated health problems worldwide. Health care workers are the front-line warriors against the pandemic. The aim of this study was to find out the prevalence of COVID-19 (7th May 2021 to 3rd August 2021) amongst Health Care Workers (HCWs) and to assess the complications associated with it and its effects on their quality of life. Material and Method: The study was conducted in healthcare facilities which serve as pandemic hospitals in district Swat. A total of 140 healthcare workers, who were employed in the COVID-19 health care facilities, including the department of Pulmonology, Intensive Care Unit (ICU), and COVID-19 wards. Participants were tested for COVID-19 using RT PCR test. A Case Report Form (CRF) for conditions during and post COVID-19 was filled to assess the complications and quality of life of health care workers. Results: A total of 140 Health Care Workers were studied, out of which 40% were doctors, 22% nursing staff, 17% paramedic staff, 9% cleaning staff, lab technologist 6%, 2% operation theater staff, administration staff, and pharmacist. The respondents were also investigated for pre-existing illness prior to SARS-CoV-2 infection, hypertension was the most prevalent, followed by chronic heart diseases and neurological disorders. Fever was the most common symptom, recorded 76.42% in the participants, while 55.71% of participants had dry cough, 55% had a sore throat, following by chest pain 43.56%. Reinfection rate was 10%, with chest pain being recorded in 85.71%. Post disease complication analysis showed that 47.14% of the participants were diagnosed with a new diagnosis after the COVID-19 recovery. Pulmonological diseases were recorded the most as a new diagnosis in, followed by gastrointestinal and psychological problems. Conclusions: The results of the study illustrates how COVID-19 has affected the overall health and quality of life of HCWs in District Swat of Khyber Pakhtunkhwa, Pakistan.

**Keywords :** SARS-CoV-2, COVID-19, HCW's, symptoms, questionnaire, post COVID-19

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