

## The natural history of COVID-19 disease among Sudanese patients in Sudan October 2020-February 2021

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**Problem Statement:** In December 2019 a novel coronavirus has been emerged in Wuhan city, China. To date COVID 19 has spread to almost every continent in the world, infecting millions and producing thousands of deaths. Although it was anticipated that Africa would suffer a huge loss of life, the number of COVID-19 cases have been proportionately low across the continent.

**Methodology:** This analytical cross sectional, community based study that carried in Sudan during the 2<sup>nd</sup> wave of COVID-19, patients who were diagnosed using RT-PCR, CT Chest or blood tests and gave an ethical consent to participate were included, using Slovin's Formula the sample size was calculated and 100+15 % (n=444) was collected. Data was entered and analysed using SPSS version 23.

**Results:** This study set out to study the natural history of COVID-19 disease. It included 444 patients; their mean age was 32.77 years. 51.4% had a history of contact 14 days prior to their infection; despite that 62% of them have a good adherence to the preventive measures. Fever is the most common symptoms, unlike the published literature on common symptoms headache and anosmia and aguesia were identified to be more prevalent in 64%. 63.7% had a mild or asymptomatic course of disease while 14% had severe or critical illness. Nearly 2\3 of the patients had a good functional outcome and there is significant correlation between functional outcome and disease severity (p=0.000). Respiratory and cardiovascular complications have been demonstrated by the patients, interestingly some of them suffered problem in taste and smell, chronic headache and malaria following their infection.

**Conclusion:** Fever has identified as the most common symptom, loss of smell and taste was prevalent in 63.4%. Further studies need to be carried out in order to validate the nature of COVID-19 in Sudan.

### Biography

Malaz I. Ibrahim, a 24 years old female and a 6<sup>th</sup> year medical student at university of Khartoum, faculty of medicine. Have 2 published papers and one oral presentation in the international level. She has been also credited with contributions in much volunteer work and been a head of one of the programs of SAMER which is student's research organization.