

SUMMARY/ABSTRACT

Covid-19 is caused by SARS-CoV-2 that is categorized as a zoonotic infection. The pathogenicity of SARS-CoV-2 is low, which contradicts their transmissibility. More than 1.26 million cases of Covid-19 in > 200 countries and territories, with more than 66.000 human deaths. Most common clinical manifestations of Covid-19 include fever, dry cough, pneumonia, anosmia and ageusia. Risk factors of Covid-19 including older age, hypertension, cardiovascular disease, chronic obstructive pulmonary disease, diabetes, obesity, smoking, and cancer. SARS-CoV-2 is transmitted from person to person through respiratory droplets, close contact, and touching the infected surfaces, and most of the virus has been detected in completely asymptomatic individuals. This background led the study to investigate the correlation between diagnostic tools of Covid-19 which is a rapid test and RT-PCR with patients' clinical manifestations of Covid-19. With the additional information of patients' comorbidities, this study will give more comprehension of the disease progression of Covid-19.

Keywords: *SARS-CoV-2, Covid-19, rapid kit, RT-PCR, stage of infection*