

عنوان مقاله:

Molecular Diagnosis of COVID-19; Biosafety and Pre-analytical Recommendations

محل انتشار:

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خلاصه مقاله:

From the beginning of the COVID-19 epidemic, clinical laboratories around the world have been involved with tests for detection of SARS-CoV-2. Currently, RT-PCR (real-time reverse transcription polymerase chain reaction assay) is the gold standard for identifying the virus. Many factors are involved in achieving the highest accuracy in this test, including parameters related to the pre-analysis stage. Having instructions on the type of sample, how to take the sample, and its storage and transportation help control the interfering factors at this stage. Studies have shown that pre-analytical factors might be the cause of the high SARS-CoV-2 test false-negative rates. Also, the safety of personnel in molecular laboratories is of utmost importance, and it requires strict guidelines to ensure the safety of exposed individuals and prevent the virus from spreading. Since the onset of the outbreak, various instructions and guidelines have been developed in this field by the institutions and the Ministry of Health of each country; these guidelines are seriously in need of integration and operation. In this study, we try to collect all the information and research done from the beginning of this pandemic in December 2019- August 2022 concerning biosafety and protective measures, sample types, sampling methods, container and storage solutions, sampling equipment, and .sample storage and transportation for molecular testing of SARS-CoV-2

کلمات کلیدی:

bio-safety, pre-analytical, Sampling, transportation, Diagnosis, COVID-19

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