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Extended Abstract

Target testing and specificity of nucleic acid based diagnostics for COVID-19

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Abstract

The objective of study is to provide an indication on features of diagnostic testing of SARSCoV-2 by RT-PCR, including parameters of sensitivity, specificity, positive and negative likelihood ratios. Coronavirus Disease is the fifth international emergency after 1918, Spanish flu pandemic, triggered by Severe Acute Respiratory Syndrome Coronavirus2 (SARS-CoV2). On 30 January the WHO acknowledged COVID-19 to be a global health disaster of international importance and a pandemic on 11 March 2020. In vitro analysis of the data shows that for SARS-CoV-2 the RT-PCR test is highly specific, as it is not counter react with nucleic acid of other viruses. Oral pharyngeal and nasopharyngeal swabs were collected into a 3 ml viral transport media (VTM) and transported to Laboratory. Extraction of the viral RNA was done by Qiasymphony DSP Virus/ Pathogen mini kit (Qiagen GmbH, Germany). For amplification process of RT-PCR qualitative detection of SARSCoV-2 RNA utilizing with SYSTAAQ 2019-Novel Coronavirus (COVID-19) Real time PCR kit using a BIORAD-CFX 96. Our findings contribute to the evolving understanding of the sophisticated interaction between this emerging SARS-CoV-2 virus and nucleic acid based target testing of COVID-19.

Biography

Ghazala Rubi is working in Molecular Genetics Research Lab. this is the Central Research Lab of Post Graduate Medical Institute, Lahore General Hospital.This Lab caters all facilities of Molecular & Genetics to all Researchers of Post Graduate Medical Institute and post graduates research Projects.

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