

COVID-19-Impacted Research and Education in Global Healthcare and STEM: Evaluation of Case Studies

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Abstract

The zoonotic novel coronavirus has posed major challenges to the world's economy, social development, and public health. Effects in the education and research in the field of healthcare and STEM are accentuated in lower-developed countries or communities where the access to technology and a reliable internet connection are luxuries making it difficult to attain education virtually. The Coronavirus Infectious Disease 2019 (COVID-19) has also disrupted research and training in STEM and healthcare. With significant increases in infection rates there is an urge to redirect projects towards virology research and vaccine development. This comprehensive literature review includes case studies highlighting the consequences of COVID-19 on education and research in both STEM and healthcare on a global scale. The study further presents strategies implemented to mitigate the negative effects of the pandemic faced by countries ranging from the least developed to the most developed ones.

Keywords: COVID-19 pandemic, healthcare education, STEM education, healthcare research, STEM research, global case studies