Mental Health and Substance Use in Colorado Healthcare and Graduate Students During COVID-19: A Mixed-Methods Investigation

by


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I. Abstract

Background: The COVID-19 pandemic continues to impact mental health by exacerbating anxiety, fear, and substance use worldwide. Several studies have demonstrated increased substance use and declining mental health in students abroad, but no investigation has assessed the COVID-19 pandemic’s effects on mental health and substance use in graduate and healthcare students in the United States.

Objective: Researchers sought to quantify and qualify the ongoing COVID-19 pandemic’s impacts on Colorado graduate and healthcare students’ mental health and substance use.

Methods: Investigators utilized an online, institutionally-distributed survey to assess changes in various mental health metrics and substance use in Colorado healthcare and graduate students during the COVID-19 pandemic from June 2020 to February 2021. An augmented Fear of COVID-19 Scale (FCV-19S) academic survey served as the primary data collection vessel. Researchers utilized mixed methods to describe results both quantitatively and qualitatively.

Results: Students who reported higher levels of depression, exhaustion, loneliness, nervousness, and anger had significantly higher FCV-19S scores. Higher FCV-S19 scores were also significantly associated with increased levels of alcohol consumption, binge drinking, and cannabis use. Qualitative analysis elucidated recurring themes regarding use frequency, substances used, and the reasons underlying use. Finally, further qualitative analysis revealed three common student concerns: worries regarding the length of the pandemic, its impact on education/finances, and its social impact.

Conclusions: The COVID-19 pandemic has negatively impacted the wellbeing of Colorado healthcare and graduate students, directly causing increases in substance use while simultaneously exacerbating their feelings of fear, anxiety, and helplessness.