

Grant funding

Sigma Theta Tau International – Epsilon Sigma at-Large chapter Funded \$500

RCD small grant Funded \$2,000

SNRS Grant
Not funded



The Pandemic

On March 11, 2020, The World Health Organization (WHO) declared COVID-19 a global pandemic (WHO, 2020).

"Pandemic is not a word to use lightly or carelessly. It is a word that, if misused, can cause unreasonable fear, or unjustified acceptance that the fight is over, leading to unnecessary suffering and death" (WHO, 2020, para 7).

Never had a coronavirus caused a pandemic.

In Tennessee - March 12, 2020

Governor Bill Lee declared a state of emergency in response to COVID-19 (TN Office of the Governor, 2020).

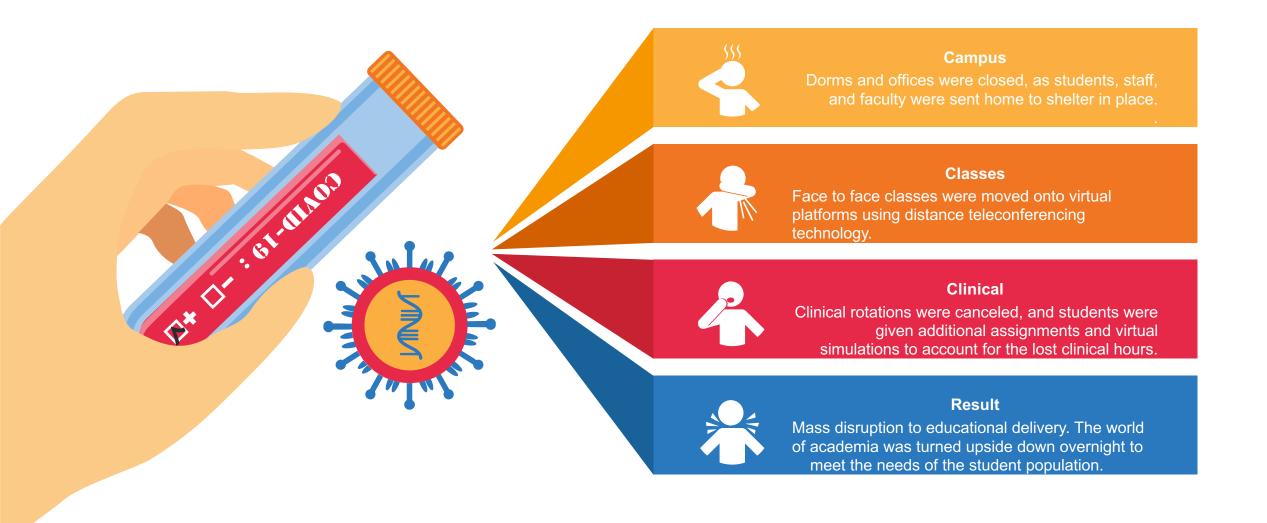
The world of academia was turned upside down as face-to-face instruction shifted to online instruction overnight.

Nonclinical courses were suspended to protect students, faculty, and staff.

The American Association of Colleges of Nursing (AACN, 2020) advised student clinical placements and interactions with known or suspected COVID-19 infection patients be limited.



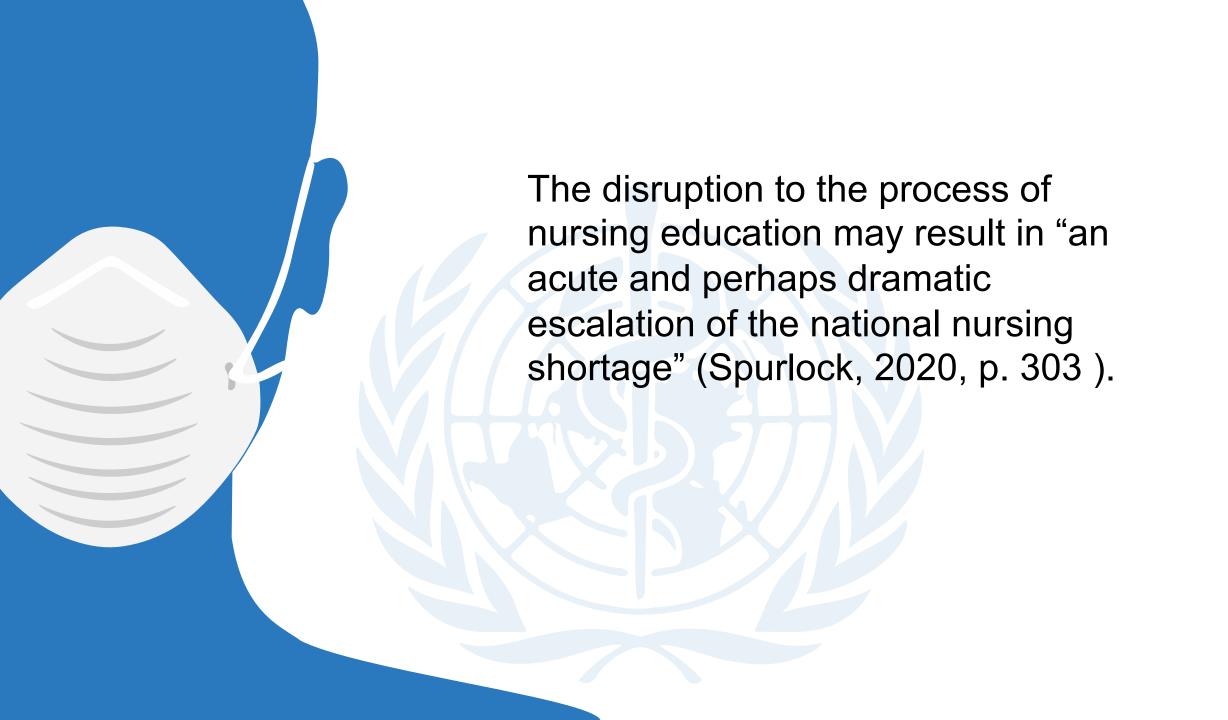
Impact on Students



Educational Disruption and Delivery Redesign (EDDR)

Dose is defined as the number of semesters of educational disruption since March 2020

- Emergency remote teaching & learning
- Rapid forced closures
- Crisis
- Digital education
- Consistent access to internet and computers required
- Differences in motivation, preparation, learning





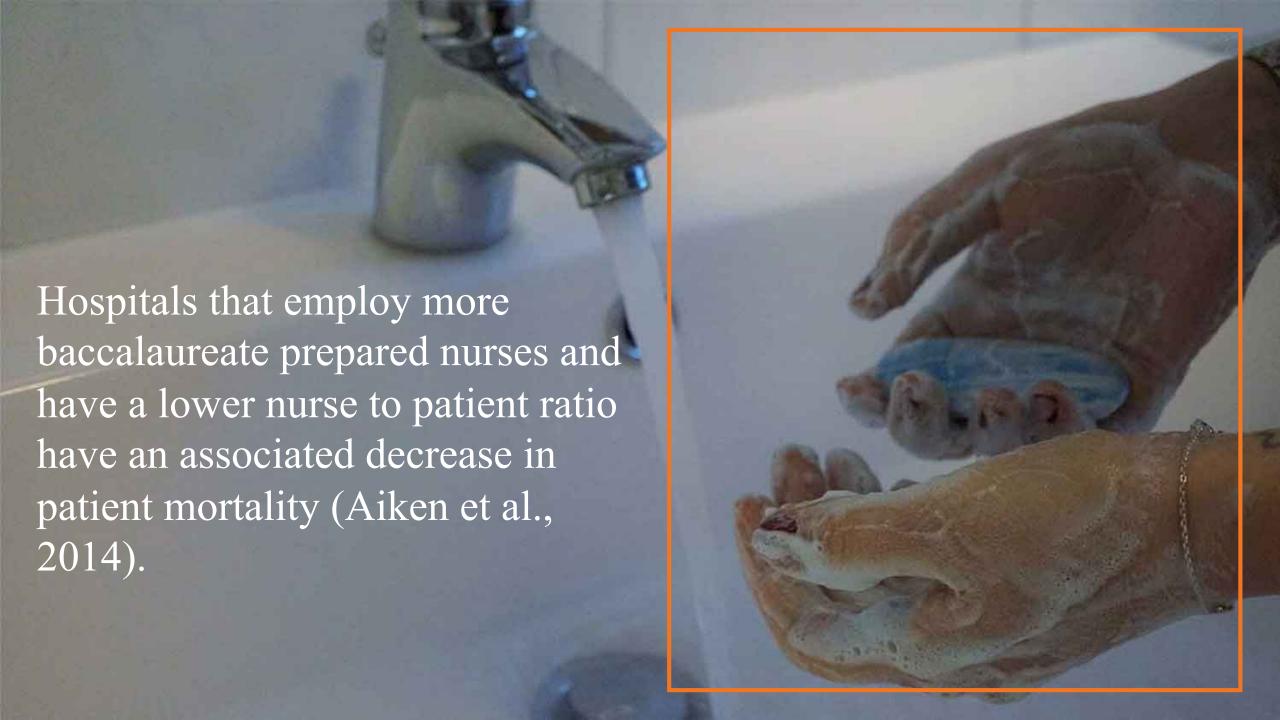
The impact of COVID-19 on prelicensure nursing education has yet to be determined (Spurlock, 2020, p 1824).



According to the NCSBN (2020) there were 252,311 U.S. educated and international graduate nurses who took the NCLEX in 2019 with 72.80% of them passing and progressing into practice.

According to Buerhaus et al. (2017), these numbers are not sufficient to cover the predicted practice exit of an aging workforce.

These projections were made pre COVID-19.





COVID Numbers at a Glance as of April 4, 2021

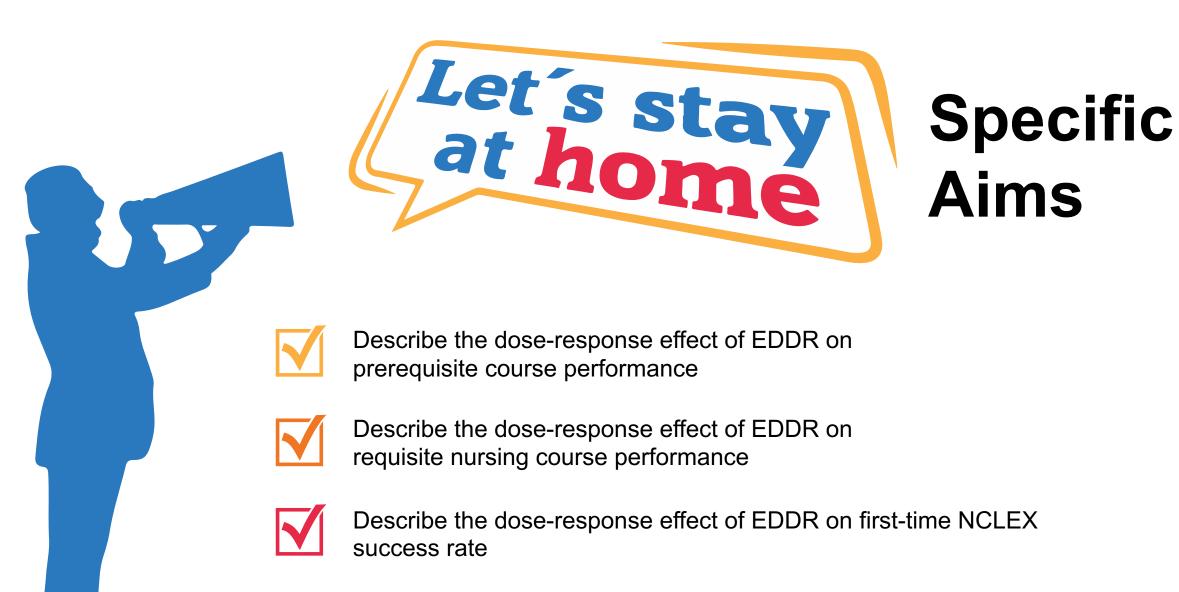
Confirmed cases: 130, 422, 190

Confirmed deaths: 2, 842, 135

Countries affected: 223 (WHO, n.d.)

Purpose

Explore the dose-response effects of COVID-19 related to the educational disruption and delivery redesign (EDDR) on the educational performance, progress, and first-time National Council Licensure Exam for Registered Nurses (NCLEX-RN) pass rates of Baccalaureate of Science in Nursing (BSN) students at ETSU, as well as to ensure that an adequately prepared supply of nurses is prepared to address the predicted nursing shortage.



Explore the mediating/moderating effects of intrinsic socio-economic variables on overall nursing education performance during the COVID era

Methods

- A descriptive longitudinal design with a doseresponse analysis will be used.
- A purposive convenience sample will include the educational records of all traditional BSN students entering the program between Spring 2017 and Fall 2020.
- The primary outcome variable is first-time NCLEX pass rate.
- COVID-related EDDR will be the primary independent variable.



Statistical Analysis

- SPSS will be used for all statistical analyses.
- T-test and chi-square (X2) analyses will be used to compare continuous and categorical variables among groups.
- The dose-response effect of EDDR will be examined with linear regression and logistic regression analysis will be conducted to determine the predictive relationship of the independent variable(s) to the dependent variable.
- Total sample size is estimated at 500 students at a 95% power and medium effect size (0.15) with 10 predictors.

PANDEMIC COVID-19



Results

Forthcoming, as this study has just received IRB approval to begin data collection.

IRB approval has been obtained # c0321.16sw





Study Benefit

PAST > Explore the effects of COVID on undergraduate nursing students

PRESENT > Prepare students to enter nursing profession

FUTURE Help address nursing shortage

Provide foundational data to support future nursing education delivery redesign



Significance of Project



Healthcare Settings

COVID exacerbated the need for bedside nurses

Academia

Rapid shift of educational delivery methods to virtual classrooms and clinical experiences is unknown

Nursing Shortage

22% registered nurse deficit is predicted for TN by 2030 (Hightower, 2019).

Students

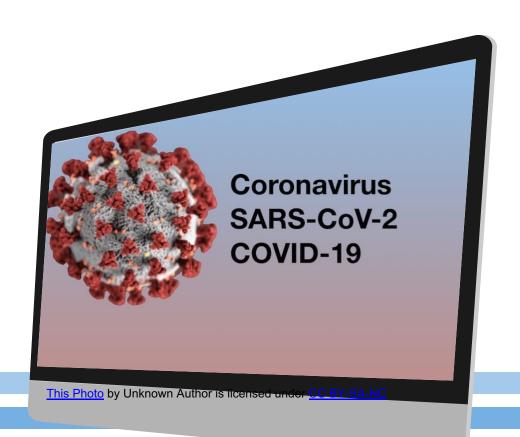
Many considered at-risk, disadvantaged, struggling to adjust.

Please Use Hand Sanitizer



Study Limitations

- O1 Single College of Nursing
- 02 Convenience sample
- One geographical region

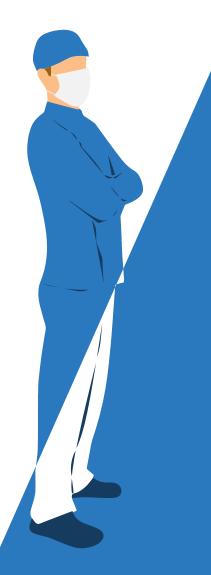




Conclusion

The impact of COVID-19 on traditional BSN student education and associated outcomes must be better understood in an effort to prepare students for success in the nursing profession, as well as to assure an adequately prepared pipeline of nurses to address predicted nursing shortages.

References



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