UC Davis

Medical Education

Title

Impact of the COVID-19 Pandemic on Preclinical Student Well-being at UCD SOM

Permalink

https://escholarship.org/uc/item/14k3g0tj

Authors

Ovruchesky, Eric Shah, Nilang Maheshwary, Romir et al.

Publication Date

2021

Data Availability

The data associated with this publication are not available for this reason: N/A

Impact of the COVID-19 Pandemic on Preclinical Student Well-being at UCD SOM



¹Eric Ovruchesky, ¹Nilang Shah, ¹Romir Maheshwary, ²William Jones, and ¹Sharad Jain, M.D.

¹University of California Davis School of Medicine and ²University of California Irvine School of Medicine



BACKGROUND

- Nationally, students in their pre-clerkship years have been abruptly transitioned to a mostly or entirely virtual educational experience. In this research study, we explored the impacts of this radical and sudden change on medical student wellbeing.
- How does the COVID-19 pandemic affect this already staggeringly high burn-out rate? To our knowledge, this question has not been thoroughly explored in the literature.
- We hypothesized that the sudden changes in medical education—including the loss of many timed and anticipated traditions, such as physical exam sessions, shadowing, and preceptorships— may potentially have negative effects on the mental health of medical students.

OBJECTIVES

- Evaluate how students feel about the changes to their curriculum and receive feedback on areas for improvement.
- Assess how students feel about their preparedness for USMLE Step 1 examinations and clinical rotations
- Evaluate student burn-out and receive feedback/suggestions on ways to mitigate it

MATERIALS & METHODS

- A 12-question survey was designed using Qualtrics Survey Software
- The survey was distributed to preclinical students at UC Davis via email
- Survey responses were recorded for a total of 12 weeks
- Survey responses were analyzed using Qualtrics Survey Software
- Study design was approved by an internal review board (IRB)

Inclusion criteria:

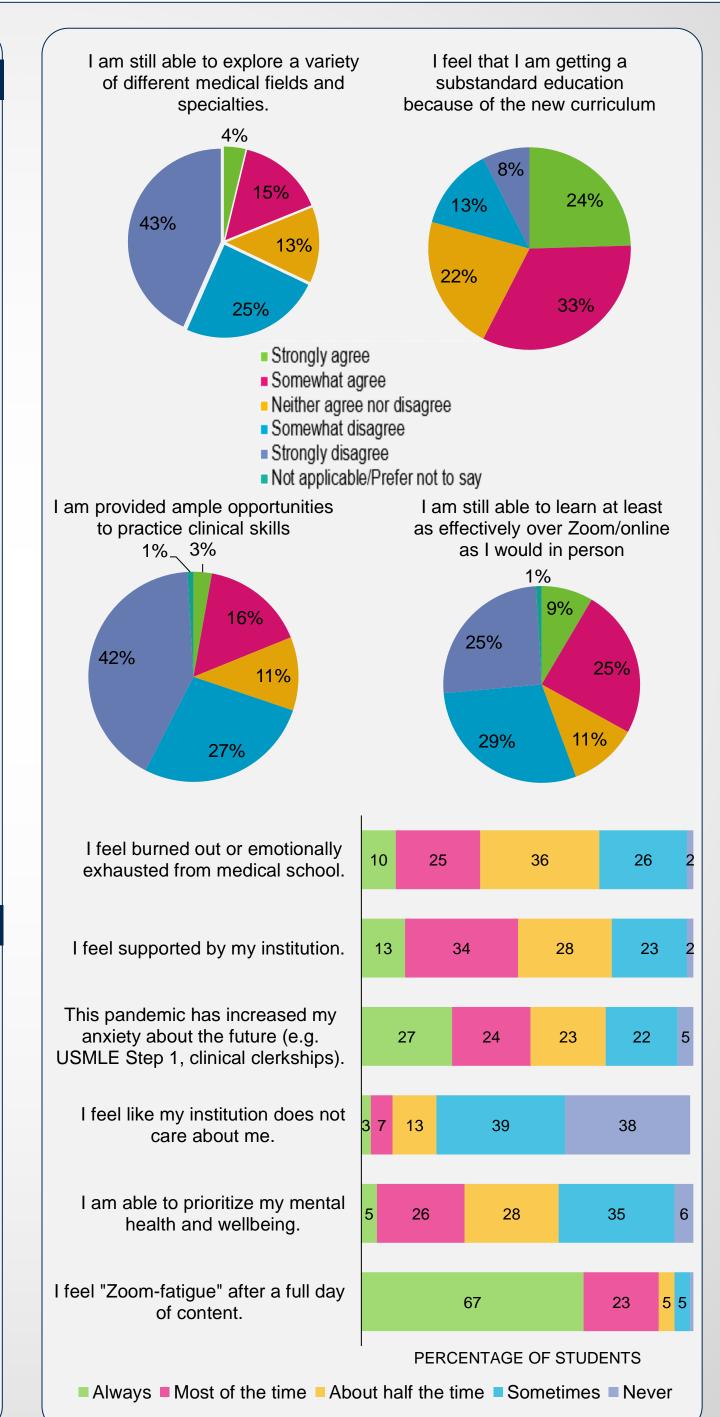
Pre-clinical Students at UC Davis
 School of Medicine were included in this
 study. This school was chosen because
 of the authors' institutional affiliation.
 Other UC schools were not examined
 due to resource and time limitations.

Exclusion Criteria:

MS3/MS4 students

RESULTS

- A total 140 UC Davis preclinical students responded to the survey with 106 students fully completing the survey
- Seventy-four (52%) students self-reported to be MS1's, and 66 (47%) of students were MS2's
- For the question "how would you rate your overall satisfaction in medical school on a scale of 1-10?" average score for before the pandemic was 8.06±1.49 (n=50), satisfaction during the pandemic was 5.9±2.34 (n=51).



CONCLUSIONS

- A majority of students (55%) feel they are getting a substandard education overall
- Areas of greatest deficit were in professional development/career exploration and clinical skills
- Seventy-one percent of students reported feeling burned out at least half of the time or more with 99% of students also encountering some level of "Zoom Fatigue"
- Students had increased anxiety surrounding future milestones (clerkships, USMLE Step 1) which could be due to lost clinical opportunities or experiences
- Students mostly (75%) felt supported by their institution at least half of the time
- Most students (94%) were able to prioritize mental health at least some of the time

REFERENCES

- 1. Borsheim, B., Ledford, C., Zitelny, E. et al. Preparation for the United States Medical Licensing Examinations in the Face of COVID-19. Med.Sci.Educ. 30, 1267–1272 (2020) https://doi.org/10.1007/s40670-020-01011-1.
- 2. Irby DM, Cooke M, O'Brien BC. Calls for reform of medical education by the Carnegie Foundation for the Advancement of Teaching: 1910 and 2010. Acad Med. 2010;85(2):220-227.
- 3. Frajerman A, Morvan Y, Krebs MO, Gorwood P, Chaumette B. Burnout in medical students before residency: A systematic review and meta-analysis. Eur Psychiatry. 2019;55:36-42. doi:10.1016/j.eurpsy.2018.08.006
- 4. Rose S. Medical Student Education in the Time of COVID-19. JAMA. 2020;323(21):2131–2132. doi:10.1001/jama.2020.5227
- 5. Skochelak SE, Stack SJ. Creating the medical schools of the future. Acad Med. 2017;92(1):16-19.
- 6. Wayne, Diane B., et al. "Medical Education in the Time of COVID-19." Science Advances, American Association for the Advancement of Science, 1 July 2020, advances.sciencemag.org/content/6/31/eabc7110.abstract.
- 7. Roger Y. Wong, MD, FRCPC, FACP, FCAHS. Medical education during COVID-19: Lessons from a pandemic. BCMJ, Vol. 62, No. 5, June, 2020, Page(s) 170-171 Special Feature, COVID-19
- 8. Yasmeen M. Byrnes, Alyssa M. Civantos, Beatrice C. Go, Tara L. McWilliams & Karthik Rajasekaran (2020) Effect of the COVID-19 pandemic on medical student career perceptions: a national survey study, Medical Education Online

ACKNOWLEDGEMENTS

We would like to acknowledge Dr. Sharad Jain for providing mentorship throughout the course of the project, and the UCDSOM Classes of 2023 and 2024 for their participation in this survey.