UC San Diego

Herbert Wertheim
School of Public Health and
Human Longevity Science

The Impact of Instructional Modalities among College Students in San Diego County during COVID-19



Somil Bhushan,¹ Samantha Bland,¹ Natalie Licup,¹ Giovanni K. Parrilla,¹ Cassidy Samovar¹

B.S. in Public Health

Introduction

- An estimated 84% of American college students reported to have some or all their classes moved to online instruction during the spring 2020 quarter, due to the COVID-19 pandemic.¹
- The limited research indicates that there was a 6.1% decrease in course completion rates for students enrolled in virtual instruction during COVID-19 in comparison to students enrolled in in-person instruction before the pandemic.²
- Data is needed on the overall impact of virtual instruction on university students' quality of life (QoL) and overall well-being.

Objective

To determine if various instructional modalities during the COVID-19 pandemic affected the quality of life for college students in San Diego County.

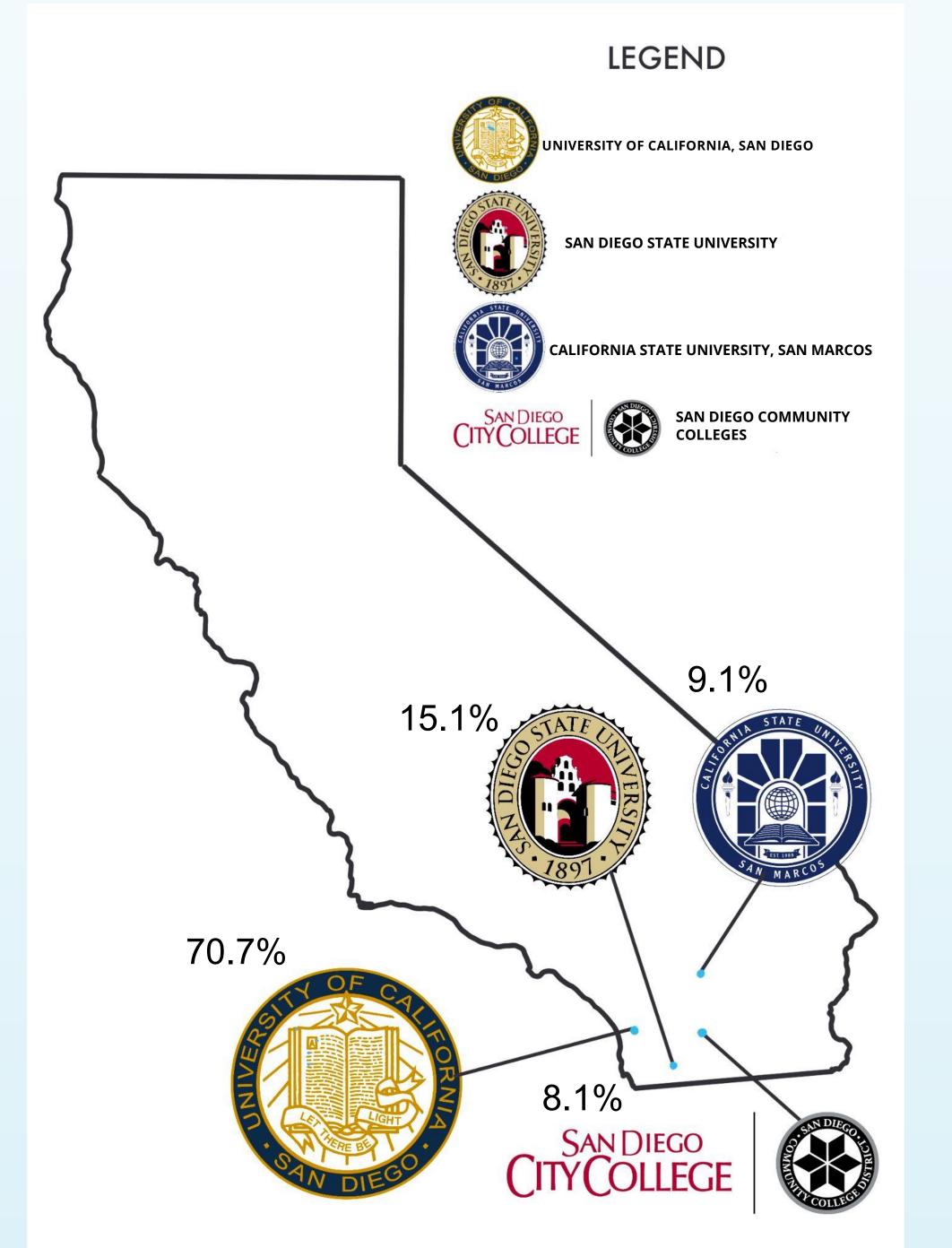
Methods

- <u>Data Collection</u>: In April-May 2022, a total of 99 students participated in a cross-sectional study examining the impact of instructional modalities during COVID-19.
- The survey was collected via Google Forms and was shared through Facebook groups and Reddit pages.
- Eligibility criteria included: 1) being 18 years or older; 2) enrolled as an undergraduate student at a public San Diego university or college
- Measures: Data were collected on sociodemographic characteristics. Students were surveyed on their quality of life and class modality experiences. The PATH Study Wave 1 questions on QoL survey were used as well.
- Analysis: Chi-Squared tests were used to analyze the correlation between quality of life and class modality, and student school year and overall satisfaction with virtual instruction.

Results

- Majority of participants were from from UC San Diego and San Diego State University (Figure 1).
- 67% identified as female, 29% as male, and 91.9% (n=91) were between the ages of 18-22.
- There was data representation for students in all school years (Table 1).
- Most students reported their quality of life as not overly good or bad, (Figure 2).
- There was indifference or slight satisfaction with virtual learning (Figure 3).
- Students' quality of life was dependent on the induced instructional modalities (p = .366) (Table 2).
- Students' individual school year was dependent on their overall satisfaction with the instructional modalities (p = .032) (Table 3).

Figure 1. Map of participating institutions in San Diego County



Results

Table 1. Participant Characteristics (n=99)					
Variable	N=99 (100%)				
Age 18-22 23-25	91 (91.9%) 8 (8.1%)				
Year First Second Third Fourth Fifth or higher	13 (13.1%) 21 (21.2%) 28 (28.3%) 31 (31.3%) 6 (6.1%)				

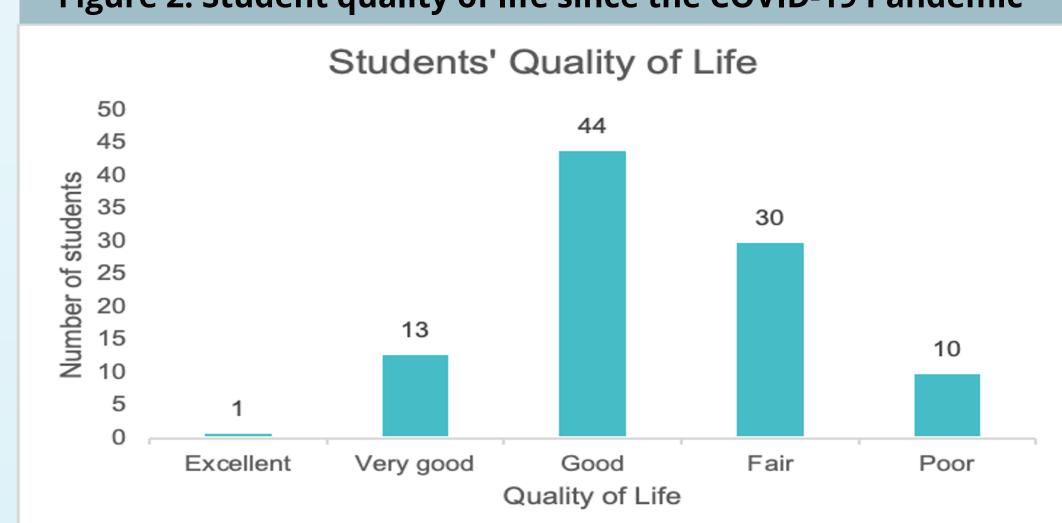
Table 2. Quality of Life and Instructional Modality Preference

	Instructional Modalities Preferences, n (%)					
	100% Remote	Hybrid	In-Person	No Preference		
Quality of Life	$\chi^2 = 125.047$, $P = 0.366$					
Excellent	1	0	0	0		
Very Good	2	9	2	0		
Good	4	24	16	0		
Fair	1	15	13	0		
Poor	1	6	3	0		

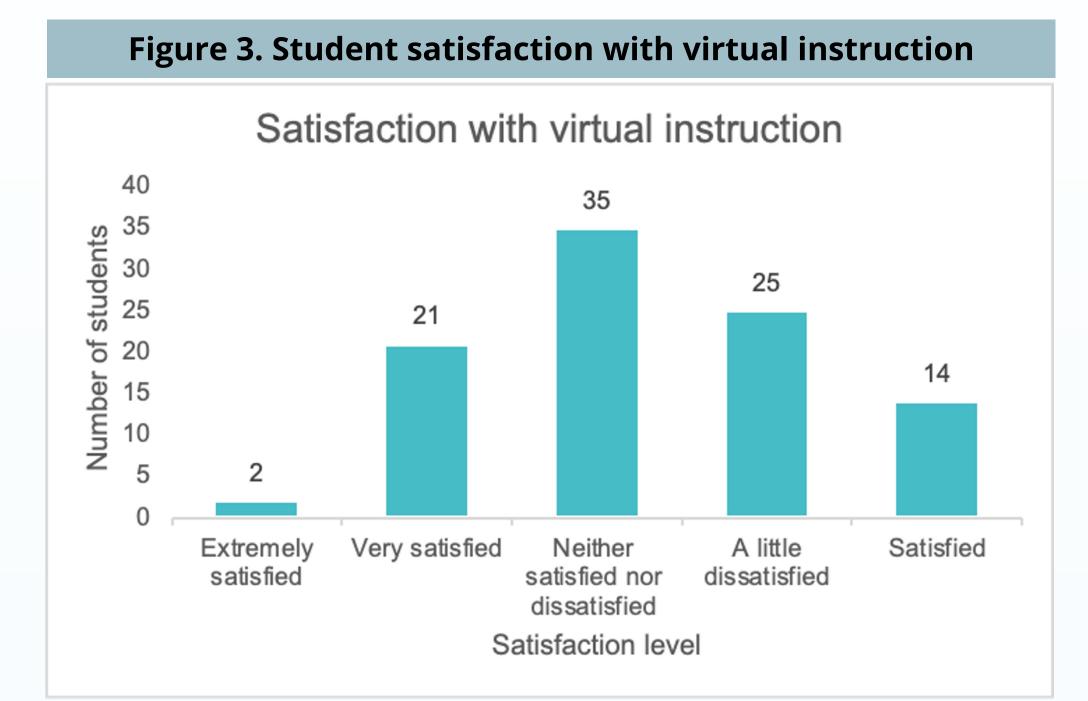
Table 3. Student' School Year and Satisfaction

	Instructional Modalities Satisfaction, n (%)					
	Extremely Satisfied	Very Satisfied	Neither satisfied nor dissatisfied		Dissatisfied	
Student School Year	$\chi^2 = 35.955$, $P = 0.032$					
1st	0 (0)	1 (7.7)	7 (53.9)	4 (30.8)	0 (0)	
2nd	0 (0)	3 (14.3)	4 (19.1)	8 (38.1)	6 (28.6)	
3rd	0 (0)	9 (42.9)	10 (35.7)	7 (25)	3 (10.7)	
4th	2 (6.5)	4 (12.9)	14 (45.2)	6 (19.4)	5 (16.1)	
5th+	0 (0)	5 (83.3)	1 (16.7)	1 (16.7)	0 (0)	

Figure 2. Student quality of life since the COVID-19 Pandemic



Results



Conclusion

- There was a significant difference between quality of life and class modality instruction.
- Ultimately, the quality of life and class modalities were determined to be dependent on one another.
- Students who reported having a "good" quality of life coincided with the hybrid instructional modality learning based on flexibility in attending class.

Policy Implications

- University administrators should consider adopting student-centered resources and methods of hybrid instruction in order to promote both student satisfaction and quality of life.
- Professors could provide supplemental video sessions to support student learning

References

- 1. National Center for Education Statistics (2021). 84% of All Undergraduates Experienced Some Or All Their Classes Moved to Online-only Instruction Due to the Pandemic. Retrieved from https://nces.ed.gov/whatsnew/p1ress_releases/06_16_2021.asp
- 2. Bird, K. A., Castleman, B. L., & Lohner, G. (2022). Negative Impacts From the Shift to Online Learning During the COVID-19 Crisis: Evidence From a Statewide Community College System. AERA Open.

 https://doi.org/10.1177/23328584221081220