

#### Introduction

There are an estimated 165 million Americans with substance use disorders (SUD), yet only 1.46 million received medication assisted treatment (MAT) in 2019.<sup>1,2</sup> Increasing access to SUD services to decrease this gap is essential to address this crisis. Physician Assistants/Associates (PAs) are vital to this effort, prompting Physician Assistant Education Association (PAEA) to develop a curriculum to help standardize SUD education across PA programs.

#### Purpose

An aim of this curriculum is expansion of access to SUD treatment services. The purpose of this survey distribution is to explore PA student attitudes around and confidence in treating patients with SUD.

# **Methods**

2019-2021, PAEA From developed and implemented an 8-hour online instructional module students designed PA to encourage for standardization of SUD curriculums nationally. This curriculum module was designed by a consortium of faculty from 10 PA programs and implemented as a pilot project for students in those 10 programs (N=399). Students from 10 additional PA programs were added in the second year of the pilot (N=880). A survey was administered to all students prior to starting the curriculum and immediately after completion to collect demographic information, measure attitudes around SUD, and assess the quality of the curriculum using a Likert scale. A separate questionnaire was sent to the 20 participating programs to collect program demographic data and to determine how the curriculum module was implemented.

Tran None Amer Asia Blac

# Assessing PA Student Attitudes and Confidence: The Results of a Substance Use Disorder Curriculum Module Pilot Project

Cheryl Vanderford<sup>1</sup>, Paul Christensen<sup>2</sup>, Kristi Collins<sup>3</sup>, Priscilla Marsicovetere<sup>3</sup>, Jennifer Zorn<sup>4</sup>, Richard Dehn<sup>5</sup>

1. University of Kentucky, 2. Grand Valley State University, 3. Franklin Pierce University, 4. Butler University, 5. Northern Arizona University

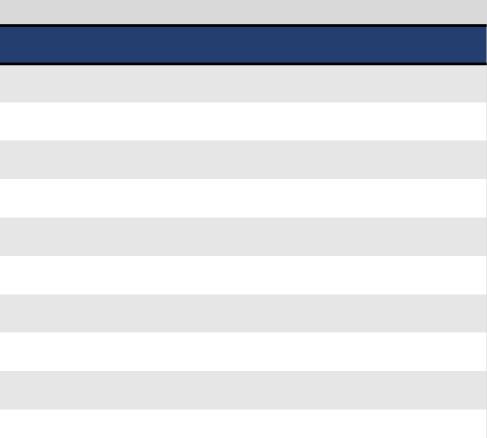
#### Results

A total of 1279 students from the 20 piloting PA programs completed the pre-curriculum survey and 739 completed the post-curriculum survey for a 62% response rate. Of the 739 students who completed the post-curriculum survey, 73.8% were female and 69.7% were white. 93% of participating students were very satisfied or satisfied with the curriculum module. Student attitudes on the diagnosis and treatment of SUD and regarding patients with SUD improved after module completion on 9 of the 12 Likert survey questions. On 3 of the Likert survey questions pertaining to statements that infer a reluctance to treat SUD patients there was a small decrease in score from pre- to post-curriculum surveys, indicating that some PA students may seek to avoid SUD patients even after completing the SUD curriculum. Additional analysis will assess whether program variations in the curriculum module implementation impacted student curriculum evaluation and attitudes towards SUD.

<u>ple 1. Survey Demographics</u>	
nale	74.1%
le	25.8%
nsgender	0%
ne of these	0.1%
erican Indian or Alaska Native	0.8%
an	13.9%
ck or African American	5.2%
panic or Latino	10.0%
tive Hawaiian or Other Pacific Islander	0.5%
ite	69.7%

Table 2. SUD Attitudinal Survey Pre- and Post- curriculum	Year 1 Pre- curriculum	Year 1 Post curriculum		Year 2 Pre- curriculum	Year 2 Post- curriculum	Year 2 Change in
Statement	Mean N=399		6 Mean Score		Mean N=516	Mean Score
(Strongly Agree=5; Agree=4; Neutral=3; Disagree=2; Strongly Disagree=1)						
I am familiar with the term "substance use disorder" (SUD)	4.47	4.72	+0.25	4.42	4.68	+0.26
SUD is a serious medical problem that results in substantial financial, social, and societal costs	4.81	4.83	+0.02	4.80	4.74	-0.06
I believe that it is important that the PA program curriculum includes instruction about SUD	4.68	4.77	+0.09	4.78	4.73	-0.05
My PA program has already provided me curriculum pertaining to SUD	3.79	4.33	+0.54	3.65	4.23	+0.58
I currently feel confident in screening acute and chronic patients for SUD	2.98	4.13	+1.15	2.71	3.96	+1.25
I currently feel confident in treating acute and chronic patients for SUD	2.46	3.78	+1.32	2.31	3.69	+1.38
I currently feel confident in referring acute and chronic patients for SUD	3.17	4.32	+1.17	2.96	4.23	+1.27
I currently feel confident in managing acute and chronic patients with SUD	2.45	3.72	+1.27	2.36	3.73	+1.37
I would prefer to not treat patients with SUD	2.07	2.28	+0.21	2.06	2.17	+0.11
There are specific specialties where the providers do not need to be concerned with whether their patients have SUD (*Negative score change means increased disagreement)	1.58	1.50	0.00 *	1.56	1.71	+0.15 *
I feel I will need additional instruction and experience in order to identify, treat, and manage patients with SUD (*Negative score change means increased disagreement)	4.14	3.62	-0.52 *	4.16	3.65	-0.51 *
SUD is a patient's choice (*Negative score change means increased disagreement)	2.18	1.91	-0.27 *	2.12	1.94	-0.18 *
Table 3. SUD Instructional Module Evaluation Survey   Statement   (Strongly Agree=5; Agree=4; Neutral=3; Disagree=2; Strongly Disagree=3; Strongl	isagree=1)		N=276	Year 1 Standard Deviation	Year 2 Mean N=516	Year 2 Standard Deviation
The content and instructional methods of this module significantly increased my understanding of SUD		erstanding	4.32	0.84	4.22	0.89
The learning objectives for this module were clearly stated			4.62	0.66	4.50	0.79
The curriculum met the learning objectives of this module			4.62	0.64	4.48	0.81
The curriculum delivery process was effective and easy to navigate			4.63	0.72	4.45	0.88
The content of the module substantially increased my knowledge of SUD			4.39	0.88	4.40	0.87
The evaluation process was fair and matched the learning objectives and the information that was presented		ation that	4.62	0.70	4.50	0.80





### Discussion

Accreditation standards used to guide PA curriculum development include education specific to SUD and its application to clinical practice.<sup>3</sup> Piloting a standardized online modular SUD curriculum increased PA student confidence in screening, diagnosing, and providing treatment for patients with SUD. Qualitative data suggests completion of the SUD modules reduced stigma associated with SUD. It is recommended that future studies document the effectiveness of various types of SUD curriculum and curriculum placement, in addition to identifying the reasons why some students may be resistant to caring for patients with SUD.

# Conclusion

SUD is a highly prevalent, undertreated condition in the US population. Improving patient outcomes requires a multiprong approach to reducing stigma and educating providers on diagnosis and treatment paradigms. PAs can play a vital role caring for patients with SUD. This study demonstrates that an online SUD curriculum can reduce SUD stigma and improve PA student confidence in diagnosing and managing patients with SUD.

#### References

- 1. Amiri S, Hirchak K, McDonell MG, Denney JT, Buchwald D, Amram O. Access to medication-assisted treatment in the United States: Comparison of travel time to opioid treatment programs and office-based buprenorphine treatment. Drug Alcohol Depend. 2021 Jul 1;224:108727. doi: 10.1016/j.drugalcdep.2021.108727. Epub 2021 Apr 29. PMID: 33962300.
- 2. National Center for Drug Abuse Statistics. Drug Abuse Statistics. 2022. https://drugabusestatistics.org/. Accessed January 15, 2022.
- 3. ARC-PA. Accreditation Standards for Physician Assistant Education© Fifth Edition. 2020. http://www.arc-pa.org/wpcontent/uploads/2021/03/Standards-5th-Ed-March-2021.pdf. Accessed January 16, 2022.

# Acknowledgements

This research was supported by SAMHSA of the U.S. Department of Health and Human Services (HHS) as a part of a financial assistance award. The contents are those of the authors and do not necessarily represent the official views of nor an endorsement, by SAMHSA/HHS, or the U.S. Government.



