



The University of Texas at Austin
Pharmacy Addictions Research & Medicine



ANNUAL REPORT

2021 - 2022



SCAN ME

PhARMprogram.org



[@PhARMprogram](https://twitter.com/PhARMprogram)

MEET THE TEAM



Lucas G. Hill
PharmD, BCACP
Director & Lead Instructor

Dr. Hill graduated from the UMKC School of Pharmacy and completed a combined residency/fellowship in the UPMC Department of Family Medicine. He is now a clinical associate professor at The University of Texas at Austin College of Pharmacy where he founded the PhARM Program and Operation Naloxone. Dr. Hill is the principal investigator for a five-year \$25 million TTOR contract to address the opioid crisis in Texas. He also serves on the editorial board of JACCP and as past chair of the AACP SUD Special Interest Group.



Lindsey J. Loera
PharmD
Research Fellow

Dr. Loera graduated from UT Austin College of Pharmacy in 2020 and is completing a two-year fellowship with the PhARM Program. She conducts research related to the pharmacists' role in substance use disorder treatment and harm reduction and provides instruction in pharmacotherapy and interprofessional collaboration courses. Dr. Loera is a past President of the Student Pharmacist Recovery Network and co-founded the P4 Addiction Medicine APPE at UT.



Claire Zagorski
MSc, LP
Coordinator & Harm Reduction Instructor

Ms. Zagorski earned a Bachelor's Degree at The University of Texas at Austin and a Master's Degree at The University of North Texas Health Science Center. She has practiced clinically as a paramedic in multiple treatment settings, including as a member of the Austin Harm Reduction Coalition. She founded Longhorn Stop the Bleed and is committed to supporting healthcare professionals who seek to integrate harm reduction principles in their practice.



Carlos F. Tirado
MD, MPH, FASAM
Medical Consultant & Clinical Instructor

Dr. Tirado earned his MD and MPH degrees at UT Health, completed a residency in psychiatry at UT Southwestern, and completed a fellowship in addiction psychiatry at the University of Pennsylvania. He is board-certified in general and addiction psychiatry, and he is the founder and chief medical officer of CARMAhealth – a primary care medical home for people with substance use and psychiatric disorders.

2021-2022 RESEARCH ASSISTANTS



Kami Johnston

Kami is a P4 student and is the current student director of Operation Naloxone. Her primary research project included delivering and evaluating the impact of interprofessional overdose response education for health professions students.



Morgan Murchison

Morgan is a P4 student and CPNP member. Her primary research project included interviewing the directors of professional recovery programs in Texas to describe their policies related to medications for opioid use disorder.



Chandler Prevatt

Chandler is a former PharmD student and the Founder and Lead Developer of ELIFT Creations. She built the PhARMprogram.org website and this annual report! She is passionate about providing community organizations with the tools they need to advance their goals.



Megan Yeung

Megan is a P4 student and peer outreach chair for CPNP. Her primary research project focused on assessing the availability of buprenorphine-naloxone and naloxone nasal spray in Harris County, TX and Philadelphia County, PA.

2022-2023 RESEARCH ASSISTANTS



Amber Tran

Amber is a rising third-year pharmacy student who attended UT Austin for undergrad where she earned a BS in Psychology. She is interested in interactions between biological, psychological, and social factors that contribute to health outcomes. She has a passion for mental health advocacy, reducing health disparities to promote health equity, and hopes to pursue a career in psychiatric pharmacy.



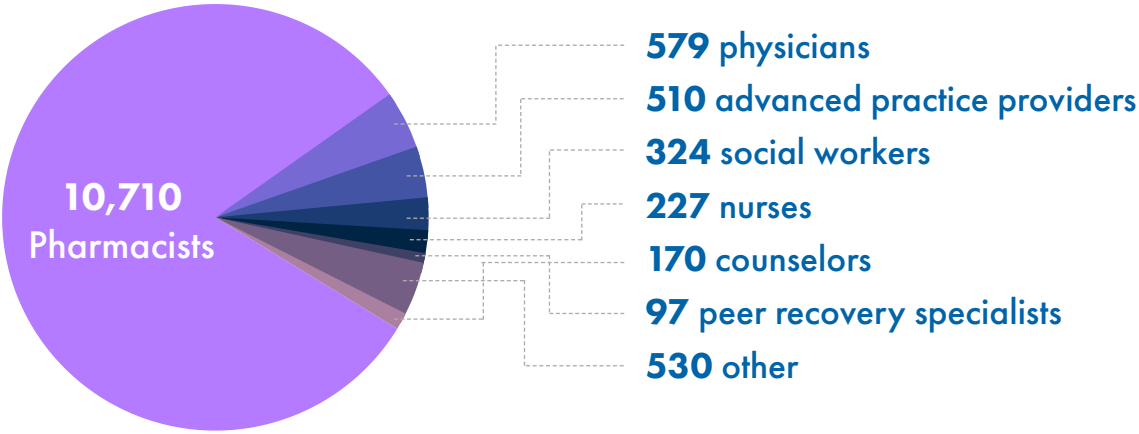
Grace Ukazim

Grace is a rising third-year pharmacy student at UTCOP. She is a pharmacist intern at H-E-B Pharmacy and serves as treasurer and president-elect of SNPhA. She is passionate about serving the underserved and looks forward to learning more about addiction medicine and ways to positively impact healthcare.

TEXAS TARGETED OPIOID RESPONSE

The **Texas Opioid Training Initiative** at TXOTI.org is the hub for opioid-related continuing education and clinical resources developed by our team with support from the Texas Targeted Opioid Response. We owe special thanks to the UT Center for Health Communication for web design and to UT Continuing Pharmacy Education for facilitating development of free online CE programs – 17 hours and counting!

13,147 professionals have completed TXOTI CE programs in the past year alone!



Top Left: Jennifer Potter moderates the opening expert panel / Top Right: Texas Harm Reduction Alliance leads a workshop
Bottom Left: TxSUS attendees observe a plenary session / Bottom Right: Sunset in Corpus Christi, TX

Texas Opioid Training Initiative

AboutCE ProgramsClinical ResourcesNaloxone Standing Order

Free Continuing Education

The Texas Opioid Training Initiative provides free online continuing education for a broad range of health professionals. TXOTI also provides clinical resources to prevent opioid overdoses and other forms of opioid-related harm in Texas. Explore the resources on our site to learn more about how to be part of the solution to the opioid crisis.

Inpatient Focused

Six unique one-hour video modules that cover a broad range of opioid-related topics are available for healthcare professionals who work primarily in inpatient settings. Click to learn more.

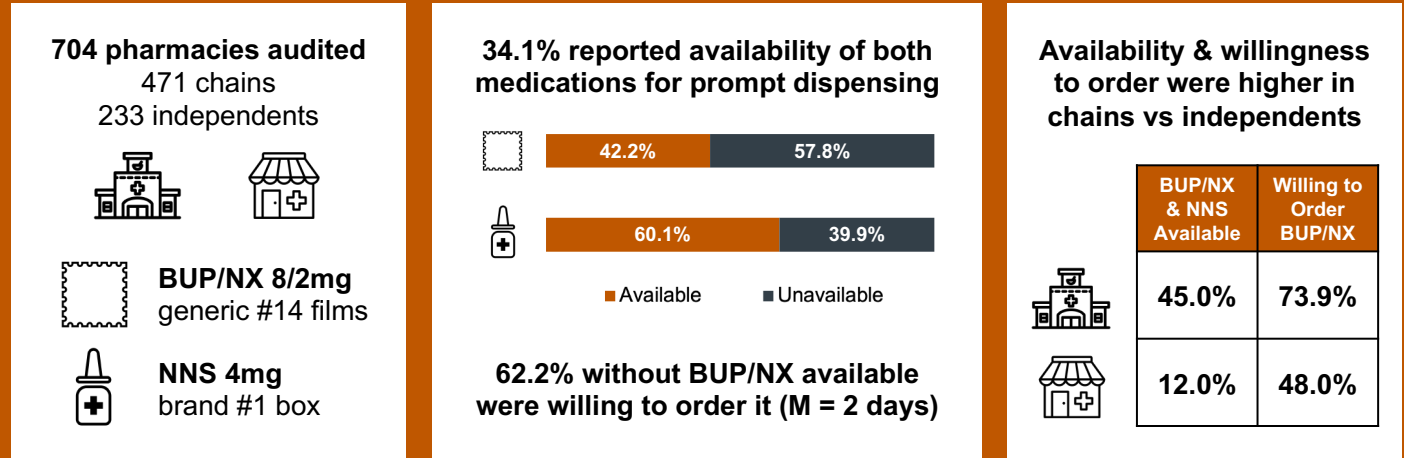
We were honored to partner with Dr. Jennifer Potter and Be Well, Texas to host the first in-person **Texas Substance Use Symposium (TxSUS)**. TxSUS was a remarkable success with 278 live attendees in Corpus Christi and 116 virtual attendees. Recorded plenaries from national and regional experts will be available for free CE at TxSUS.org in June. Keep an eye on the website and mark your calendar for TxSUS 2023 in San Antonio on March 27th and 28th!



NATIONAL RECOGNITION

Most Texas pharmacies are not prepared to dispense buprenorphine/naloxone films & naloxone nasal spray

A cross-sectional telephone audit with a secret shopper approach conducted in Spring 2020



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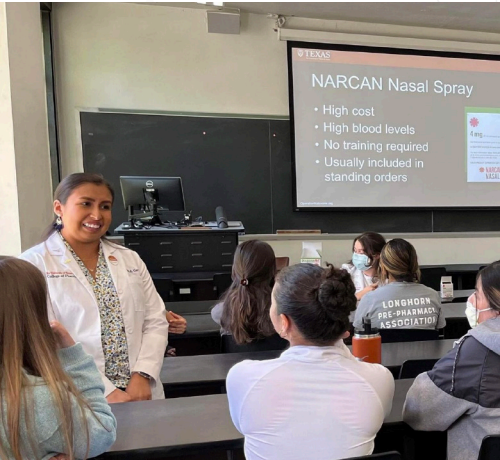
Hill LG, Loera LJ, Evoy KE, Torrez SB, Renfro ML, Zagorski CM, Perez JC, Jones SM, Reveles KR. Availability of buprenorphine/naloxone films and naloxone nasal spray in community pharmacies in Texas, United States. *Addiction*. DOI: 10.1111/ADD.15314



The American College of Clinical Pharmacy recently bestowed the prestigious New Educator Award to Dr. Hill. Our team also received the Ambulatory Care PRN Outstanding Paper Award for our publication in *Addiction*, and Dr. Loera was recognized with the Research Fellow Best Poster Award for an expansion of that study in ten other U.S. states.



OPERATION NALOXONE



Operation Naloxone is an interprofessional collaboration led by student pharmacists that provides overdose education and naloxone distribution on campus. Since 2016, Operation Naloxone has trained 1,733 community members and distributed 1,518 doses of naloxone!



To further enhance naloxone access on the UT Austin campus, Kami Johnston and Claire Zagorski collaborated with faculty and staff across the university to facilitate availability in campus libraries. Since February 2022, naloxone has been available for pickup at the Perry-Castañeda Library, and for emergency access at the Life Sciences Library and Benson Library. We owe particular gratitude to Geoff Bahre for championing this initiative within UT Libraries and to UT SHIFT for providing the funds to purchase naloxone.



Implementing access in UT Libraries led to distribution of 312 naloxone doses!



The University of Texas at Austin College of Pharmacy provides 23.5 hours of required didactic instruction related to substance use disorder and harm reduction. Education is a key component to broadening perspectives and altering beliefs toward people who use drugs, and it is crucial for PharmD curricula to support the development of our students and profession in this domain. Megan, Kami, and Morgan recently led development of a blog post describing our curriculum, and it has been accepted for publication in *Pulses*.



P1 5.5 hours	P2 7 hours	P3 11 hours	P4 250 hours (optional)
New Student Orientation 1.5 hours <ul style="list-style-type: none">Opioid overdose education & naloxone distribution training Foundations of Interprofessional Collaborative Practice 3 hours <ul style="list-style-type: none">Screening, brief intervention and referral to treatment simulation Pathophysiology 1 hour <ul style="list-style-type: none">Substance use disorder pathophysiology lecture	Clinical Skills Lab 2 hours <ul style="list-style-type: none">Addressing substance use at the pharmacy counter lectureOpioid overdose education & naloxone distribution simulation Nonprescription Pharmacotherapeutics 5 hours <ul style="list-style-type: none">Tobacco use disorder lecture and simulation	Pharmacotherapy of Addiction 11 hours <ul style="list-style-type: none">Substance use disordersOpioid use disorderAlcohol use disorderTobacco use disorderIntoxicationWithdrawalStimulant and sedative use disorderHarm reductionBehavioral therapies for substance use disordersManagement of co-occurring disordersSubstance use disorder complex case review	Addiction Medicine Elective APPE 250 hours

Operation Naloxone IPPE Events
2 hours per semester (optional)

PhARM Program
Endowed Lecture



WHAT IS
HEROIN
ANYMORE?

CHEMICAL INSIGHTS FOR PUBLIC HEALTH



Nabarun Dasgupta, PhD, MPH
Senior Scientist & Injury Prevention
Research Center Innovation Fellow
UNC Gillings School of Public Health



Mary Figgatt, MPH
Graduate Research Assistant
UNC Gillings School of Public Health

Dr. Dasgupta and Ms. Figgatt discussed an innovative drug checking service developed by the Opioid Data Lab to inform North Carolina’s public health response to substance use challenges. Dr. Dasgupta is an applied epidemiologist, an associate editor for the American Journal of Public Health, and the founder of Project Lazarus. Ms. Figgatt is a PhD candidate in epidemiology and implemented Philadelphia’s drug overdose fatality review program. A recording of this lecture is available on the events page of our website.



Mary Figgatt instructing Kasey Claborn (Assistant Professor, Steve Hicks School of Social Work) to collect and package a sample for testing



Nabarun Dasgupta providing historical perspective on opioid manufacturing and testing

We extend special thanks to Dean Poloyac for supporting this lecture and other critical PhARM Program activities through the Bergen Brunswig Corporation Centennial Endowed Fellowship.

STAFF TRANSITIONS

Lindsey J. Loera, PharmD



As the inaugural PhARM Fellow, and coiner of the PhARM acronym, Dr. Loera has been central to our program's recent success. Since 2019, she has authored six peer-reviewed manuscripts and 34 peer-reviewed posters. She has also been recognized with prestigious research awards from ACCP, AACP, and UTCOP. In 2022, Dr. Loera was the lead author for a research brief in *Am J Pharm Educ* describing the Addiction Medicine APPE that she created. She will continue her career in a faculty role at UTCOP beginning Fall 2022!

Sorina Torrez, PharmD



Sorina Torrez served as one of the first PhARM Program research assistants in 2020–2021, and she will rejoin us in Summer 2022 as she pursues a MS in pharmaceutical science. Sorina will complete clinical rotations throughout Central Texas and plans to focus her research on implementation of SUD treatment in community pharmacies.

Claire Zagorski, MSc, LP



In addition to serving as our Program Coordinator, Claire is an accomplished scholar in peer-reviewed and popular media. In 2020, she was the lead author for a viewpoint in *Int J Drug Policy* exploring the dangers of isotonitazene. Claire is also well known for her Etsy Shop featuring high-quality pins and stickers with harm reduction messaging. In Summer 2022, Claire will begin completing a PhD in translational science. She plans to focus her research on implementation and evaluation of a low-barrier methadone program.

Chandler Prevatt, B.S.



Chandler Prevatt recently transitioned from a research assistant role to become our digital content manager. She created our outstanding new website and this annual report! Visit eliftcreations.com to see more of Chandler's work, and hire her to build your next website.

PUBLICATIONS

1. Loera LJ, Hill LG, Zagorski CM, Jermain ML, Tirado CF. (2022). Description and evaluation of a pilot advanced pharmacy practice experience in addiction medicine. *Am J Pharm Educ.* 8926.
2. Gugala E, Briggs O, Moczygemba LR, Brown CM, Hill LG. (2022). Opioid harm reduction: A scoping review of physician and system-level gaps in knowledge, education, and practice. *Subst Abus.* 43(1):972-987.
3. White KM, Hill LG, Perez JC, Torrez SB, Zagorski CM, Loera LJ. (2022). Policies regarding use of medications for opioid use disorder in professional recovery programs: A scoping review. *Subst Abus.* 43(1):749-755.
4. Hill LG, Zagorski CM, Loera LJ. (2022). Increasingly powerful opioid antagonists are not necessary. *Int J Drug Policy.* 99:103457.
5. Hill LG, Loera LJ, Evoy KE, Torrez SB, Renfro ML, Zagorski CM, Perez JC, Jones SM, Reveles KR. (2021). Availability of buprenorphine/naloxone films and naloxone nasal spray in community pharmacies in Texas, USA. *Addiction.* 116(6):1505-1511.
6. Bottner R, Weems J, Hill LG, Ziebell C, Long S, Young S, Sasser M, Ferguson A, Tirado C. (2021). Addiction treatment networks cannot withstand acute crises: Lessons from Winter Storm Uri in Texas. *NAM Perspectives.*
7. Peckham AM, Ball J, Colvard MD, Dadiomov D, Hill LG, Nichols SD, Tallian K, Ventricelli DJ, Tran TH. (2021). Leveraging pharmacists to maintain and extend buprenorphine supply for opioid use disorder amid COVID-19 pandemic. *Am J Health Syst Pharm.* 78(7):612-618.
8. Evoy KE, Hill LG, Davis CS. (2021). Considering the potential benefits of over-the-counter naloxone. *Integr Pharm Res Pract.* 10:13-21.
9. Coon SA, Hill LG, Hutchison RW, et al. (2020). Mobilizing pharmacists to address the opioid crisis: A joint opinion of the ambulatory care and adult medicine practice and research networks for the American College of Clinical Pharmacy. *J Am Coll Clin Pharm.* 3(8):1493-1513.
10. Tran T, Ball J, Bratberg JP, DeSimone EM, Franko TS, Hill LG, Koh-Knox Sharp CP, Palombi L, Ventricelli D, Farrell D, Gandhi N, Moore T. (2020). Report of the 2020 special committee on substance use and pharmacy education. *Am J Pharm Educ.* 84(11):8421.
11. Litten K, Hill LG, Garza A, Srinivasa M. (2020). Increasing naloxone knowledge and use through direct-to-patient education. *J Pharm Technol.* 36(6):237-242.
12. Renfro ML, Moczygemba LR, Baumgartner J, Baumgart G, Hill LG. (2020). Opioid-related education provided by continuing education divisions at US pharmacy schools. *Am J Pharm Educ.* 84(10):8001.
13. Renfro ML, Loera LJ, Tirado CF, Hill LG. (2020). Lofexidine for acute opioid withdrawal: A clinical case series. *Ment Health Clin.* 10(5):259-263.
14. Zagorski CM, Myslinski JM, Hill LG. (2020). Isotonitazene as a contaminant of concern in the illegal opioid supply: A practical synthesis and cost perspective. *Int J Drug Policy.* 86:102939.

Description and Evaluation of a Novel Advanced Pharmacy Practice Experience (APPE) in Addiction Medicine

BACKGROUND

- The U.S. faces a substantial burden of societal harms related to substance use disorders (SUD)
- The 2019 AACP environmental scan identified a concerning shortage of APPEs in this domain
- Addressing this deficit is essential to ensure pharmacists are prepared to provide optimal care
- In Summer 2019, the University of Texas at Austin College of Pharmacy began offering an elective APPE in addiction medicine

APPE DESCRIPTION

250-260 hours over 6 weeks

4 Medication Education Groups with Clients

1 Journal Club
1 Topic Discussion
1 Case Presentation

1 Research Project Per Student

4 Practice Sites

- Outpatient medical home for SUD and psychiatric disorders
- 90-day residential program
- SUD treatment center (detox, residential, outpatient)
- Opioid treatment program

ASSESSMENT METHODS

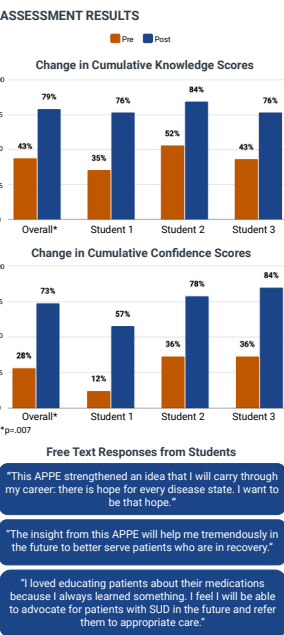
A 62-item assessment was administered to Summer 2020 students (n=3). The assessment had 51 items to assess knowledge (47 short answer, 4 multiple choice) and 11 Likert-scale items to assess confidence.

Pre/Post-APPE Assessment	
1	Neurobiology
2	Opioid use disorder
3	Alcohol use disorder
4	Stimulant use disorder
5	Tobacco use disorder
6	Harm reduction
7	Depression/anxiety
8	Bipolar disorder
9	Schizophrenia
10	Sleep disorder

A pilot APPE in addiction medicine addressed a current gap in pharmacy education, earned positive evaluations from students, and increased SUD-related knowledge and confidence.

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CARMA^{Ch}health



CONCLUSIONS

U.S. colleges of pharmacy that do not yet offer APPEs in this clinical domain should consider this model.

Lindsey J. Loera, PharmD, RPh
Carlos F. Tirado, MD, MPH, FASAM
Claire M. Zagorski, MSc, LP
Lucas G. Hill, PharmD, BCPS, BCACP

Dr. Tirado has served as a consultant for Alkermes, Inc. and US World Meds, LLC. Dr. Hill has served on the Hikma Specialty Inc. Community Advisory Board in December 2020. No other authors have any potential conflicts of interest or funding to report.

A qualitative report of fentanyl exposure among people who use drugs in Austin, Texas

BACKGROUND

- Black tar heroin is a tacky, tar-like substance
- From Nov 2020 to Oct 2021, the CDC reported overdose deaths due to synthetic opioids increased in Texas by 70%
- Little is known about the emergence of fentanyl in states where black tar heroin predominates

OBJECTIVE

To describe fentanyl exposure, methods of fentanyl identification, and harm reduction practices among people who use opioids

METHODS

Interviews conducted July 16-23, 2021 of 30 clients accessing harm reduction services at two mobile outreach syringe services programs in Austin, TX

Clients reported heroin or fentanyl use within the prior week

Responses were analyzed using a deductive (via NVivo 12.0) and inductive hybrid approach

CONCLUSIONS

The emergence of fentanyl exposure despite the predominance of black tar heroin calls for public health initiatives that aim to reduce associated harms for people who use drugs

This project is supported by Texas Targeted Opioid Response, a public health initiative operated by the Texas Health and Human Services Commission through federal funding from the Substance Abuse and Mental Health Services Administration grant award number 1H79T003288

People who use opioids in Austin, TX report increased exposure to fentanyl and related adverse events despite regional predominance of black tar heroin

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RESULTS

Participant Characteristics

56.7% male, 33.3% female, 10% nonbinary
41.7 years median age
50% Caucasian
66.7% unhoused or in transitional living

Emerging Themes

Increased exposure to fentanyl
Methods of detecting and identifying fentanyl
Harm reduction strategies to mitigate risks

"They'll sell it as heroin, but it's not heroin..."

"I'm pretty much always using fentanyl because they're putting it in... everything now"

Methods of Fentanyl Identification

Use of fentanyl strips
Physical inspection
Experiencing increased effects

Harm Reduction Recommendations

Use of fentanyl test strips
Try a smaller amount first
Keep naloxone on hand

Sorina B. Torrez, PharmDc 2022¹ | sorinatorrez@utexas.edu
Austin Buck, PharmDc 2022²; Lindsey J. Loera, PharmD³; Claire M. Zagorski, MSc⁴; Jessica D. Canice, MPH, PhD⁵; Amanda Bingham⁶; Heather Kane, PhD⁷; Sara Hargrove⁸; Lucas G. Hill, PharmD¹
1. The University of Texas at Austin, Austin, TX; 2. RTI International, Research Triangle Park, NC.

Buprenorphine/naloxone film and naloxone nasal spray pharmacy deserts in Harris County, Texas and Philadelphia County, Pennsylvania

Megan S. Yeung, PharmDc 2023¹; Lindsey J. Loera, PharmD²; Margaret R. Peterson, MSc²; Morgan L. Murchison, PharmDc 2023³; Kami E. Johnston, PharmDc 2023³; Chandler A. Prevatt¹; Andrew M. Peterson, PharmD, PhD²; Kelly R. Reveles, PharmD, PhD²; Lucas G. Hill, PharmD³

Background

- Persons with opioid use disorder (OUD) must be able to obtain buprenorphine/naloxone films (BUP/NX) and naloxone nasal spray (NNS) in a timely manner to reduce the risk for recurrence of use, morbidity, and mortality
- This study was a focused assessment in two highly populated and demographically diverse counties

Methods

- Telephone audit conducted from 4/1/2021 to 9/30/2021
- Primary outcomes included availability of a one-week supply of generic BUP/NX 8/2mg and a single unit of NNS
- Secondary outcomes included willingness to order BUP/NX if unavailable and estimated timeframe
- Pharmacies were excluded if unreachable after three attempts, refused to disclose information, or were not a community pharmacy

300 pharmacies 130 pharmacies

1. The University of Texas at Austin, Austin, TX; 2. The George Washington University, Washington, D.C.; 3. University of the Sciences Philadelphia, Philadelphia, Pennsylvania

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Figure 1. Availability of BUP/NX

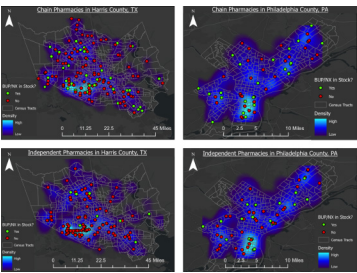
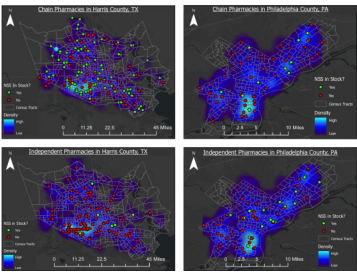


Figure 2. Availability of NNS

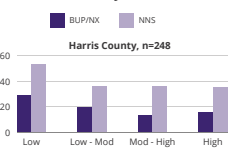


Results

Medication Availability by County

Medication, n (%)	Harris County	Philadelphia County
BUP/NX	47 (19.0)	42 (38.5)
NNS	100 (40.3)	31 (28.4)

Medication Availability by Social Vulnerability Index



Conclusions

Few pharmacies in these metropolitan counties are prepared to dispense BUP/NX and NNS, with greater deficiencies in independent pharmacies.

Availability of buprenorphine/naloxone films and naloxone nasal spray in community pharmacies in eleven U.S. states

INTRODUCTION

Patients with opioid use disorder must be able to obtain prescribed buprenorphine/naloxone films and naloxone nasal spray from a community pharmacy promptly to reduce a risk for recurrence of use and subsequent morbidity and mortality

STUDY QUESTION

Are community pharmacies in 11 U.S. states prepared to promptly dispense buprenorphine/naloxone films and naloxone nasal spray?

- STUDY DESIGN
- Telephone audit conducted May 2020 to May 2021
 - 5734 randomly selected pharmacies in eleven U.S. states
 - States: AZ, CA, FL, MA, ME, ND, NJ, OH, PA, SD, TX

METHODS

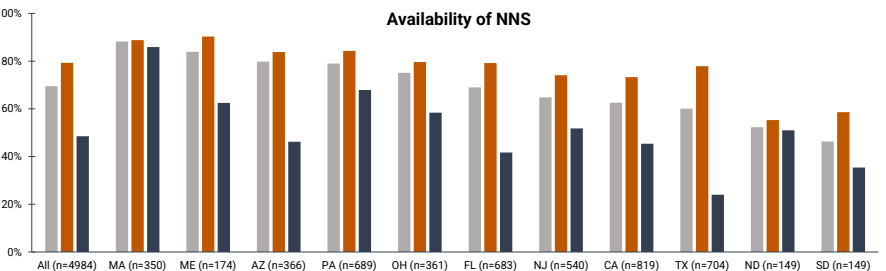
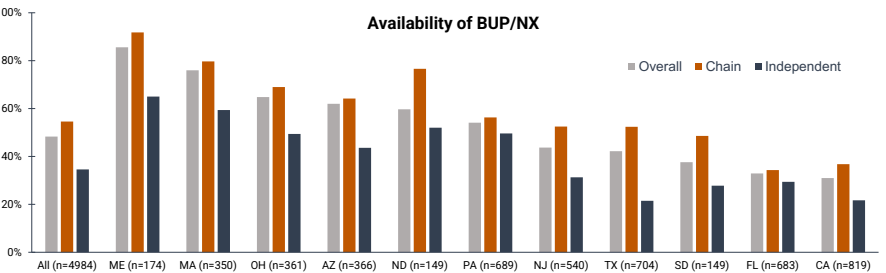
- BUP/NX: #14 generic buprenorphine/naloxone films
- NNS: a single unit of branded naloxone nasal spray
- Assessed availability of each medication, as well as willingness and timeframe to order the buprenorphine product
- Compared by pharmacy type, county metropolitan status, state Medicaid expansion status, and state drug overdose death rate

CONCLUSIONS

BUP/NX and NNS are not readily available in many U.S. pharmacies, demonstrating a barrier to timely access of these vital medications. Deficits are most pronounced in independent pharmacies, states that have not expanded Medicaid, and states with relatively low drug overdose rates.

Lindsey J. Loera¹, Lucas G. Hill¹, Sorina B. Torrez², Talia Puzantian³, Daniel J. Ventrone⁴, Heidi N. Euke⁵, Kirk E. Evey⁶, Alyssa M. Peckham⁷, Clement Chen⁸, Valerie S. Ganetsky⁹, Megan Yeung¹, Claire M. Zagorski¹, Kelly R. Reveles¹

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Medication	Metro (n=4431)	Non-Metro (n=553)	P-value	High OD (n=3163)	Low OD (n=1821)	P-value	Expansion (n=3448)	Non-Expansion (n=1536)	P-value
BUP/NX + NNS	1816 (41.0)	238 (43.0)	0.3557	1489 (47.1)	565 (31.0)	<0.0001	1579 (45.8)	475 (30.9)	<0.0001
BUP/NX	2096 (47.3)	310 (56.1)	0.0001	1710 (54.1)	696 (38.2)	<0.0001	1828 (53.0)	578 (37.6)	<0.0001
NNS	3122 (70.5)	344 (62.2)	<0.0001	2383 (75.3)	1083 (59.5)	<0.0001	2503 (72.6)	963 (62.7)	<0.0001

64.0% of pharmacies that did not have BUP/NX available were willing to order it

Median Order Time for BUP/NX

2 Days

Contact Information: Lindsey J. Loera, PharmD
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1. The University of Texas at Austin College of Pharmacy 2. KGI School of Pharmacy and Health Sciences 3. University of the Sciences Philadelphia College of Pharmacy 4. North Dakota State University School of Pharmacy 5. Massachusetts General Hospital Substance Use Disorders Initiative 6. Rutgers New Jersey Medical School 7. Cooper University Healthcare Division of Addiction Medicine

PEER REVIEWED NATIONAL POSTERS

1. Yeung M, Loera LJ, Peterson MR, Murchison ML, Johnston KE, Prevatt CA, Peterson AM, Reveles KR, Hill LG. Buprenorphine/naloxone film and naloxone nasal spray pharmacy deserts in Harris County, Texas and Philadelphia County, Pennsylvania. College of Psychiatric & Neurologic Pharmacists Annual Meeting; April 2022.
2. Torrez SB, Buck A, Zagorski CM, Loera LJ, Cance JD, Bingaman A, Kane H, Hairgrove S, Hill LG. A qualitative report of fentanyl exposure among people who use drugs in Austin, Texas. College of Psychiatric & Neurologic Pharmacists Annual Meeting; April 2022.
3. Buck A, Bird J, Tirado CF, Loera LJ, Hill LG. Analysis of clinical characteristics of Travis County patients in a Central Texas outpatient substance use clinic. American Society of Health-System Pharmacists Midyear Clinical Meeting; December 2021.
4. Houser E, Bicker AM, Torrez SB, Loera LJ, Hill LG. Availability of buprenorphine/naloxone films and naloxone nasal spray in community pharmacies in Arizona. American Society of Health-System Pharmacists Midyear Clinical Meeting; December 2021.
5. Pac W, Haley A, Nieman M, Notarianni V, Son D, Roy S, Ventricelli DJ, Torrez SB, Loera LJ, Hill LG. Availability of buprenorphine/naloxone films and naloxone nasal spray in community pharmacies in Pennsylvania. American Society of Health-System Pharmacists Midyear Clinical Meeting; December 2021.
6. Puzantian T, Karapetyan N, Safari MJ, Shaw BA, Singh S, Bokhari F, Reveles KR, Torrez SB, Loera LJ, Hill LG. Availability of buprenorphine/naloxone films and naloxone nasal spray in community pharmacies in California. Association for Multidisciplinary Education and Research in Substance Use and Addiction Annual Meeting; November 2021.
7. Torrez SB, Perez JC, White KM, Loera LJ, Reveles KR, Evoy KE, Zagorski C, Bird J, Buck A, Burgess M, Charles A, Gonzalez G, Tran A, Wijeratne A, Yeung M, Ukazim G, Nguyen N, Clague M, Hill LG. Availability of buprenorphine/naloxone films and naloxone nasal spray in community pharmacies in Florida. Association for Multidisciplinary Education and Research in Substance Use and Addiction Annual Meeting; November 2021.
8. Perez JC, Torrez SB, White KM, Loera LJ, Reveles KR, Evoy KE, Hill LG. Availability of buprenorphine/naloxone films and naloxone nasal spray in community pharmacies in South Dakota. Association for Multidisciplinary Education and Research in Substance Use and Addiction Annual Meeting; November 2021.
9. Loera LJ, Hill LG, Torrez SB, Puzantian T, Ventricelli DJ, Eukel HN, Evoy KE, Peckham AM, Chen C, Ganetsky VS, Yeung M, Zagorski CM, Reveles KR. Availability of buprenorphine/naloxone films and naloxone nasal spray in community pharmacies in eleven U.S. states. American College of Clinical Pharmacy Annual Meeting; October 2021. Research Fellowship Best Poster.

10. Loera LJ, Tirado CF, Zagorski CM, Hill LG. Description and evaluation of a novel advanced pharmacy practice experience in addiction medicine. American Association of Colleges of Pharmacy Annual Meeting; July 2021. Finalist – Best Poster by a Resident, Fellow, or Postdoc.
11. Vogt CM, Burgess MM, Charles AN, Loera LJ, Tirado CF, Hill LG. Analysis of patient-reported satisfaction with long-acting injectables for opioid and alcohol use disorder in a Central Texas outpatient clinic. College of Psychiatric & Neurologic Pharmacists Annual Meeting; April 2021.
12. Loera LJ, Hill LG, Zagorski CM, Castleberry AN. Analysis of student pharmacists' intention to provide harm reduction resources after brief education and a simulated patient encounter. College of Psychiatric & Neurologic Pharmacists Annual Meeting; April 2021.
13. White KM, Hill LG, Perez JC, Torrez SB, Zagorski CM, Loera LJ. A scoping review of policies regarding use of medications for opioid use disorder in professional recovery programs. College of Psychiatric & Neurologic Pharmacists Annual Meeting; April 2021.
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