



Elias M. Klemperer, Ph.D.
CURRICULUM VITAE

Position: Assistant Professor
Department of Psychiatry

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EDUCATION

2019-2020	University of Vermont Larner College of Medicine, Burlington, VT	NIH Postdoctoral fellow, Vermont Center on Behavior and Health
2018-2019	Yale University School of Medicine, New Haven, CT	Doctoral Internship in Clinical and Community Psychology (APA accredited)
2013-2019	University of Vermont, Burlington, VT	Ph.D., Clinical Psychology; NIH Predoctoral fellow
2006-2011	Lewis & Clark College, Portland, OR	B.A., Psychology

LICENSES, CERTIFICATION

2022-Present	Licensed Clinical Psychologist	State of Vermont, License No. 048.0134378
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FACULTY POSITIONS HELD

2019-2022	Outpatient Clinician	Vermont Psychological Services, Department of Psychological Science, University of Vermont
2020-Present	Assistant Professor	Departments of Psychiatry (primary) and Psychological Science University of Vermont

LEADERSHIP AND MAJOR ADMINISTRATIVE POSITIONS HELD

Years	Program name	Role
2016-2020	Vermont Correctional Addiction Treatment Program The Vermont Correctional Addiction Treatment Program (VCAP) is a specialty service within UVM's Vermont Psychological Services which provides evidence-based behavioral addiction treatment for people who are incarcerated within two correctional facilities in Vermont. The program involves training, supervision, and practicum experience for graduate student clinicians within the UVM Department of Psychological Sciences and a patient data repository to support research projects, including a doctoral dissertation and graduate student-led peer reviewed publication.	Founder, Supervisor, and Clinician
2020-2023	Center on Biomedical Research Excellence The University of Vermont Center on Biomedical Research Excellence is funded by the National Institute on General Medical Sciences (NIGMS) and supports the establishment and development of innovative, state-of-the-art biomedical and behavioral research. I served as PI and project leader of a large (N=396) national randomized controlled trial titled: <i>A Randomized Controlled Trial of Smoking Cessation Treatment for Young Adult Dual Users of Combustible and Electronic Cigarettes</i> .	Project Leader
2021-Present	UVM Tobacco Center of Regulatory Science The Vermont TCORS was established in 2013 and is funded by an NIH- and FDA-center grant. The Vermont TCORS investigators extend across UVM, Johns Hopkins University, and Brown University with UVM as the coordinating site. Our Center is dedicated to researching reduced nicotine combusted tobacco products and non-	Core Leader: Rapid Response Projects; Co-Investigator

combusted sources of nicotine among vulnerable populations. We also coordinate a series of smaller rapid response research projects to address timely issues related to tobacco regulation. Finally, UVM TCORS also provides a pre- and post-doctoral training program in tobacco regulatory science.

2023-Present	UVM Center on Rural Addiction (CORA)/Rural Center of Excellence on SUD Treatment UVM CORA was established in 2019 and is funded by a \$13.7 million RCORP-RCOE Center of Excellence Award from the Health Resources & Services Administration. The aim of UVM CORA is to disseminate science-based treatments and tools to rural communities, with the overarching goal of expanding opioid use disorder (OUD) treatment capacity and reducing opioid-related morbidity and mortality in the rural areas so disproportionately impacted by the ongoing opioid epidemic.	Co-Director: Education and Outreach
2023-Present	Vermont Center on Behavior and Health (VCBH) The VCBH is an interdisciplinary research center committed to investigating the relationships between behavior patterns and risk for chronic disease and premature death, with a focus on health disparities among vulnerable populations. As Associate Director I manage center activities including research personnel, lecture series, conference preparation, and plans for future grant funding. In addition, in my role as Leader of the Pilot Project Program, I manage a fund of \$250,000/year for pilot research projects to seed larger NIH funded grants within our center.	Associate Director; Leader of Pilot Project Program

HONORS AND AWARDS

Year	Award/Honor
2016	University of Vermont Clinical Science Training Award
2017	University of Vermont Graduate College Most Innovative Research Award
2017	National Institute on Drug Abuse (NIDA) Director's Award
2018	Yale Doctoral Internship in Clinical & Community Psychology Travel Award
2019	University of Vermont Larner College of Medicine Dean's Excellence in Research Award: First Prize

2020	University of Vermont Graduate College Outstanding Dissertation Award
2020	College on Problems of Drug Dependence Early Career Investigator Travel Award
2020	American Psychological Association: Division 28 Outstanding Dissertation Award
2024	University of Vermont Larner College of Medicine Rising Star New Investigator Award

KEYWORDS/AREAS OF INTEREST

Cigarettes; E-cigarettes; Tobacco treatment; Tobacco regulatory science; Smoking cessation; Criminal justice settings; Opioid use disorder; Opioid treatment; Rural health; Substance use disorders; Health behavior change

SUMMARY OF PROFESSIONAL ACTIVITIES- OVERALL

I am an Assistant Professor in the Department of Psychiatry with a secondary appointment in the department of Psychological Science. As a behavioral scientist and licensed clinical psychologist, my research focuses primarily on tobacco control and regulatory science. I completed my doctoral training at the University of Vermont and, after a clinical internship at Yale University, received my PhD in 2019. I then completed one year of a postdoctoral fellowship before joining the faculty at the University of Vermont in 2020 as an NIH-funded Project Leader within the Vermont Center on Behavior and Health (VCBH) Center on Biomedical Research Excellence (COBRE). My current research includes two R01s focused on the dual use of cigarettes and e-cigarettes. The first is a NIH/NIDA and FDA-funded randomized controlled trial to assess nicotine reduction in cigarettes and e-cigarettes. The second is a NIH/NIDA-funded cohort study to examine fine-grained patterns and longitudinal trajectories of cigarette and e-cigarette use among adults who dually use both products compared to those who exclusively use cigarettes or e-cigarettes. Both R01s build directly upon work that I began as a COBRE Project Leader.

Broadly, my research focuses on nicotine reduction, dual use of cigarettes and e-cigarettes, and interventions for people who are not motivated to quit smoking. I have published over 55 papers in well-regarded peer-reviewed journals (including *JAMA Psychiatry*, *Addiction*, and *Tobacco Control*) and given more than 100 local, national, and international scientific presentations on my research in addiction. I have led or collaborated on multiple large national multi-site randomized clinical trials, and have experience conducting both in-person and fully-remote research. In addition to my work in tobacco, I have an emerging line of research examining the treatment of opioid use disorder among incarcerated individuals which includes a recently completed NIH-funded statewide evaluation of the implementation of medication for opioid use disorder in Vermont correctional facilities. I serve as an *ad hoc* NIH grant reviewer on the Interventions to Prevent and Treat Addiction (IPTA) study section. Additionally, I am on the editorial board of *Preventive Medicine* and hold leadership roles within the Society for Research on Nicotine and Tobacco (SRNT) and NAADAC, the Association for Addiction Professionals. My leadership roles within UVM include serving as Associate Director of

the Vermont Center on Behavior and Health, leading our COBRE Pilot Project Program, Co-Directing the Education and Outreach Core in the UVM Center on Rural Addiction (CORA), and serving as a Core Leader and Co-Investigator in the UVM Tobacco Center of Regulatory Science (UVM TCORS). Finally, I am the primary mentor for one Clinical Psychology pre-doctoral fellow, serve on multiple masters thesis and doctoral dissertation committees, and work regularly with pre- and post-doctoral trainees within the Vermont Center on Behavior and Health.

SUMMARY OF ACCOMPLISHMENTS

- As PI or MPI, I have two funded NIH R01s to investigate dual use of cigarettes and e-cigarettes.
- I serve as Associated Director of the Vermont Center on Behavior and Health (VCBH), an NIH-funded center which includes 23 faculty members, 3 post-doctoral fellows, and 5 pre-doctoral trainees conducting behavioral health research.
- I serve as a Co-Director for the UVM Center on Rural Addiction (CORA), a HRSA-funded Rural Center of Excellence which includes 14 faculty and over 15 staff members dedicated to the dissemination of evidence based treatment for addiction in rural communities across all 50 states.
- I have authored 58 publications in well regarded peer-reviewed journals including *JAMA Psychiatry*, *Addiction*, *Tobacco Control*, *Drug and Alcohol Dependence*, *Preventive Medicine*, and *Nicotine & Tobacco Research*.
- I regularly give invited presentations for academic conferences, universities, and healthcare agencies. In total, I have chaired 4 symposia, given 40 oral presentations, and 67 poster presentations at regional, national, and international conferences and events.
- I currently serve on the Editorial Board for *Preventive Medicine*, have served as a Guest Editor for *Nicotine & Tobacco Research*, and serve as an ad hoc reviewer for over 15 peer-reviewed journals
- I am chair of the Treatment Research Network, Communications committee for the Society for Research on Nicotine and Tobacco (SRNT) which is the flagship international organization for tobacco researchers.
- I am an invited member of the National Associations for Alcoholism and Drug Abuse Counselors (NAADAC) Nicotine Dependence Specialist Task Force, which is tasked with setting the national standards for the Nicotine Dependence Specialist certification.

PROFESSIONAL SERVICE

DEPARTMENTAL SERVICE

2016	Psychiatry/VCBH Tobacco Center of Regulatory Science Development Grant Review	Grant Reviewer
2023	Vermont Biomedical Research Network (VBRN) Grant Writing Workshop	Grant-writing Consultation
2020-Present	Dual Use Tobacco Trials Hiring Committee	Principal Investigator

COLLEGE SERVICES

2021-Present	Vermont Center on Behavior and Health (VCBH) pre- and post-doctoral trainee recruitment and hiring	Faculty Interviewer
2023-Present	Vermont Center on Behavior and Health	Associate Director
2023-Present	UVM Center on Rural Addiction (CORA)/Rural Center of Excellence on SUD Treatment	Co-Director of Education and Outreach Core

MEDICAL CENTER SERVICE

N/A

UNIVERSITY SERVICE

2022-Present	University of Vermont Cancer Center	Cancer Population Sciences Member
2024-Present	University of Vermont Faculty Senate	Elected Senator
2024-Present	University of Vermont Cancer Center	Community Ambassador

GOVERNMENT

2015-2016	Vermont Tobacco Evaluation and Review Board	Member
2021-2023	A Statewide Evaluation of the Implementation of Medications for Opioid Use Disorder in Vermont Correctional Facilities and the Impact of COVID-19	Principal Investigator
2023	Vermont Department of Health Grand Rounds	Invited Speaker
2024	NIH Interventions to Prevent and Treat Addictions (IPTA) Study Section	NIH Grant Reviewer

SOCIETY MEMBERSHIPS

2012- Present	College on Problems of Drug Dependence (CPDD)
2013-Present	Society for Research on Nicotine and Tobacco (SRNT)
2013-Present	American Psychological Association (APA)
2013-Present	American Psychological Association (APA) Division 28 – Psychopharmacology and Substance Abuse

2013-Present

American Psychological Association (APA) Division 50
– Society of Addiction Psychology

SERVICE TO PROFESSIONAL ORGANIZATIONS

2017	American Cancer Society: Great American Smokeout	Guest Speaker
2016-2019	Society for Research on Nicotine and Tobacco, Global Health Network Education Committee	Member
2017-2020	College on Problems of Drug Dependence, Membership Committee	Member
2020-2021	Society for Research on Nicotine and Tobacco, Treatment Research Network, Communications Committee	Member
2021	American Psychological Association, Division 28 meeting	Conference Abstract Reviewer
2021	Society for Research on Nicotine and Tobacco, Treatment Research Network Researcher Spotlight	Invited Researcher Spotlight
2022	Tobacco Centers of Regulatory Science Conference	Member, Planning Committee
2021-2023	NIH Tobacco Regulatory Science Meeting	Conference Abstract Reviewer
2021-2023	American Psychological Association,	Conference Abstract Reviewer
2021-2023	NIH Tobacco Regulatory Science Meeting	Conference Abstract Reviewer
2023	American Psychological Association	Conference Abstract Reviewer
2017-Present	Society for Research on Nicotine and Tobacco	Conference Abstract Reviewer
2021-Present	National Certification Commission for Addiction Professionals	Taskforce Member
2021-Present	Society for Research on Nicotine and Tobacco, Treatment Research Network, Communications Committee	Chair

SERVICE TO PROFESSIONAL PUBLICATIONS

2021-2022 *Nicotine & Tobacco Research*
 2023-Present *Preventive Medicine*

Guest Editor
 Editorial Board
 Member

Ad Hoc Journal Reviewer for >15 journals, including: *Addiction; Addictive Behaviors; Annals of Medicine ; Drug and Alcohol Dependence; International Journal of Environmental Research and Public Health; JAMA Network Open; Journal of Behavioral Medicine; Journal of Comparative Effectiveness Research; Journal of Substance Abuse Treatment; Nicotine & Tobacco Research; Patient Education and Counseling; Preventive Medicine; Preventive Medicine Reports; Psychology of Addictive Behaviors; Substance Abuse Treatment, Prevention, and Policy; Tobacco Prevention & Cessation*

PUBLIC SERVICE

2016-2020	Vermont Correctional Addiction Treatment Program	Co-Founder, Supervisor, and Clinician
2017	American Cancer Society: Great American Smokeout	Guest Speaker
2017	Vermont Science, Technology, Engineering, & Math Fair	Judge
2019-2020	Chittenden County Opioid Alliance: CommunityStat Rapid Intervention Action Team	Member
2019-2022	Vermont Psychological Services	Outpatient Clinician
2023	Vermont Tobacco Cessation Learning Series	Expert Panelist
2024	Northwestern University Internship: Examination for Professional Practice in Psychology	Expert Panelist

SUMMARY OF SERVICE ACTIVITIES

I have been dedicated to the service of public health at the local and national levels for the past decade. I serve as Associate Director of the Vermont Center on Behavior and Health (VCBH), which is an NIH-funded center housed within the UVM Department of Psychiatry that includes over faculty as well as numerous trainees and staff. In addition, as a Co-Director of the Education and Outreach Core within the UVM Center on Rural Addiction, I lead a team of faculty and staff to serve providers and patients in rural communities throughout New England. I serve on the Editorial Board for *Preventive Medicine*, I served as a Guest Editor for *Nicotine & Tobacco Research*, and I continue to contribute as an ad hoc reviewer to multiple peer reviewed journals. Additionally, I serve in a leadership role within multiple national scientific societies including the Society for Research on Nicotine and Tobacco, where I currently serve as chair of the Tobacco Research Network Communications subcommittee. I am an invited member of the National Associations for Alcoholism and Drug Abuse Counselors (NAADAC) Nicotine Dependence Specialist Task Force, a panel of national experts who were selected to

establish an accreditation standard for tobacco treatment providers. Importantly, my work with NAADAC has the potential for substantive impact on the field in addition to impacting the recognition of tobacco use treatment as a specialty by the public, employers, health care professionals, educators, researchers, government entities, and third party payers in the US through national certification. With regard to local service, I co-founded the Vermont Correctional Addiction Treatment Program, which provides behavioral treatment for incarcerated individuals in two correctional facilities and training opportunities for graduate students at the University of Vermont. I have served as a clinician and a supervisor of graduate student clinicians, and helped to secure funding to establish and maintain the program. More recently, I completed a state-wide evaluation of the treatment of opioid use disorder in Vermont correctional facilities for the Vermont legislature. Findings from this evaluation were delivered to the Vermont Senate, presented at multiple national scientific conferences, and published in a peer-reviewed journal.

TEACHING

FORMAL SCHEDULED CLASSES

Year	Course Title	Course		Hours	Number of Learners	Learner Level
		R	E			
2013	The Clinical Psychology PhD Application Process, Psychological Science 250: Introduction to Clinical Psychology, University of Vermont College of Arts and Sciences		x	1	~20	U
2014	Substance Use Disorders, Psychological Science 152: Abnormal Psychology, University of Vermont College of Arts and Sciences	x		1	~25	U
2014	Overview of Substance Use Disorders and Treatments, Psychological Science 001: General Psychology, University of Vermont College of Arts and Sciences	x		1	~100	U
2014	Nicotine, Cannabis, and Opioid Use Disorders, Psychological Science 152: Abnormal Psychology, University of Vermont College of Arts and Sciences	x		1	~25	U
2015	Designing and Conducting Randomized Controlled Trials, Psychology SSC350: Research Methods in the Social Sciences Guest Lecture, Burlington College	x		1	~35	U
2015	Behavioral Treatments for Substance Abuse and Co-occurring PTSD, Psychological Science 374:	x		1.5	12	G

	Psychological Intervention, University of Vermont Graduate College					
2016	Principles of Acceptance & Commitment Therapy, PGY1/PGY2: Topics in Psychotherapy Guest Lecture, University of Vermont Larner College of Medicine		x	1	~15	G
2016	Cigarettes: Interventions to Increase Quitting, Psychological Science 152: Abnormal Psychology, University of Vermont College of Arts and Sciences	x		1	~25	U
2016	Research Methodology, Psychological Sciences 053OL 1 & 2, University of Vermont College of Arts and Sciences	x		~30	14	U
2017	Introduction to Counseling, Behavioral Sciences PSY-415-J01, Johnson State College		x	~30	17	U

R-required; E-elective; Hours-approx.; G-graduate students; U-Undergraduate students

CURRICULUM DEVELOPMENT

- 2017 Introduction to Counseling, Behavioral Sciences PSY-415-J01, Johnson State College
- 2024 Vermont Biomedical Research Network (VBRN) Undergraduate Student Summer Research Program for Underrepresented Groups
- 2024 Harm Reduction Toolkit for Rural Medical Providers with Patients Who Use Opioids, Center on Rural Addiction, University of Vermont

POSTGRADUATE AND OTHER COURSES

- 2021 Tobacco Treatment for People Not Ready to Quit, Vermont Psychological Association, Continuing Education Virtual Workshop

PREDOCTORAL STUDENTS SUPERVISED OR MENTORED

Dates	Name	Program	Role	Outcomes
2022	Shannon O'Connor	Research Assistant, Vermont Center on Behavior and Health	Supervisor	Masters in Complex Systems and Data Science at UVM
2022-2024	Katya Marsh	Research Assistant, Vermont Center on Behavior and Health	Supervisor	Masters in Counseling at UVM
2021-Present	Marc Feinstein	Doctoral Student, Psychological Science, University of Vermont	Mentor, M.A. Advisor, Ph.D. Advisor	Current mentee

2024-Present	Emily Booth	Research Assistant, Vermont Center on Behavior and Health	Supervisor	Current supervisor
2024	Peace Ogadi	Summer Intern, Vermont Biomedical Research Network (VBRN) Undergraduate Student Summer Research Program for Underrepresented Groups	Science Mentor	Current mentee
2024-Present	Lucia Berglund	Summer Intern, Psychological Science, University of Vermont	Science Mentor	Current mentee

DISSERTATION/THESIS COMMITTEE MEMBERSHIP

Dissertation Committees

Dates	Name	Program	Role	Outcomes
2020-2022	Ashley Dobbins	Psychological Science, University of Vermont	Ph.D. Committee Member	Licensed Clinical Psychologist and Postdoctoral Fellow, Mindwell
2022	Nandita Krishnan	Prevention and Community Health, Milken Institute School of Public Health, The George Washington University	Ph.D. Committee Member	Postdoctoral Scholar at Stanford University; Dissertation resulted in two peer-reviewed publications.
2024	Thomas Geist	Psychological Science, University of Vermont	Ph.D. Committee Member	Psychology Resident at Denver Health; Dissertation resulted in two peer-reviewed publications.
2023-2024	Rhiannon Wiley	Psychological Science, University of Vermont	Ph.D. Committee Member	Accepted for Clinical Internship at Rutgers University

Masters Committees

Dates	Name	Program	Role	Outcomes
2020	Julia West	Psychological Science, University of Vermont	M.A. Committee Member	Clinical Psychology Ph.D. candidate at UVM; Masters resulted

				in one peer-reviewed publication
2021	Thomas Geist	Psychological Science, University of Vermont	M.A. Committee Member	Graduated with a Ph.D. in clinical psychology from UVM; Masters resulted in one peer-reviewed publication
2022	Carolyn Evemy	Psychological Science, University of Vermont	M.A. Committee Member	Left graduate school to pursue a different career
2023	Sherry Xu	Department of Pathology and Laboratory Medicine, University of Vermont	M.A. Committee Chair	Graduated from UVM with a Masters of Science in Pathology
2023	Marc Feinstein	Psychological Science, University of Vermont	M.A. Committee, Primary Mentor	Clinical Psychology Ph.D. candidate at UVM; Masters resulted in one manuscript, currently in preparation

POSTDOCTORAL FELLOWS AND RESIDENTS DIRECTLY SUPERVISED OR MENTORED
N/A

INFORMAL TEACHING

2015-2017	Vermont Psychological Services: I provided weekly clinical training and supervision for one clinical psychology doctoral student at the University of Vermont.
2019-2020	Vermont Correctional Addiction Treatment Program: I provided training for pre-doctoral clinicians who were providing behavioral treatment to patients in two correctional facilities.
2020-Present	Vermont Center on Behavior and Health (VCBH) Trainee Seminar: As a faculty member and mentor within the VCBH I attend weekly Trainee Seminars to facilitate discussion and training related to behavioral research.
2021-Present	UVM Tobacco Center of Regulatory Science Rapid Response Core: I supervise 10 pilot studies and provide guidance for the pre- and post-doctoral trainees leading the studies.

FACULTY MENTORED

N/A

OTHER VISITING FACULTY SUPERVISED

N/A

TEACHING AIDS

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| 2010 | Teaching Assistant, Introduction to Statistics, Department of Psychology, Lewis & Clark College, Portland, OR |
| 2011 | Teaching Assistant, Research Methodology, Department of Psychology, Lewis & Clark College, Portland, OR |
| 2011 | Teaching Assistant, Social Psychology, Department of Psychology, Lewis & Clark College, Portland, OR |
| 2023-Present | Coordinator of Vermont Center on Behavior and Health (VCBH) Lecture Series. I collaborate with VCBH faculty and staff to coordinate a monthly lecture series with top researchers in the fields of behavior change, addiction, chronic disease, and health disparities for vulnerable populations. |
| 2023-Present | Co-director of the Education and Outreach Core within the Center on Rural Addiction, University of Vermont. I lead a team of faculty and staff in disseminating evidence based practices and training materials to rural clinicians. Specifically, we produce monthly community rounds workshop series, quarterly newsletters, resource guides, research spotlights, user guides, and in-person or virtual presentations to community partners and rural organizations. |

TEACHING AWARDS AND NOMINATIONS

In 2018 I was granted the University of Vermont Graduate Teaching Program Certificate, which is provided to graduate students and faculty who are admitted to and complete UVM's competitive pedagogy training program.

SUMMARY OF TEACHING ACTIVITIES

The bulk of my recent teaching activities have focused on research mentorship. I am the primary mentor for a University of Vermont clinical psychology doctoral student. In my role as Core Leader of the UVM Tobacco Center of Regulatory Science Rapid Response Projects, I work regularly with pre- and post-doctoral trainees within our center to support them in conducting pilot research projects. Further, I take pride in providing mentorship to research assistants in my lab who are pursuing graduate school and have mentored multiple undergraduate research assistants who have been accepted in or completed graduate training programs. I have also developed curricula and provided scientific mentorship for undergraduate students through the Vermont Biomedical Research Network (VBRN) internship program for students from underrepresented groups and the University of Vermont Department of Psychological Sciences. In addition to mentorship,

I lead an Education and Outreach Core within the UVM Center on Rural Addiction (CORA) which develops resources and provides training in evidence based treatment of addictions to rural clinicians across the United States, including a monthly community rounds series, treatment resources, user guides, and other material. Similarly, in my leadership role within the Vermont Center on Behavior and Health (VCBH), I coordinate and organize a monthly lecture series with national and international experts in behavioral health, which provides continuing medical education to providers and researchers within the University of Vermont College of Medicine.

RESEARCH AND SCHOLARLY ACTIVITIES

RESEARCH AWARDS AND GRANTS

Ongoing Research Support

R01DA061566	Carpenter & Klemperer (MPIs)	07/24 – 04/29
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Dual Use of Combustible and Electronic Cigarettes: A Fine-grained Naturalistic Cohort Study to Investigate Dynamic Use Patterns and Trajectories that Lead to Smoking Cessation

This prospective, longitudinal cohort study will examine the natural course of dual use (combustible and electronic cigarettes), as compared to exclusive combustible cigarette smoking and exclusive e-cigarette use. Using a multi-method assessment approach, the aims are to compare dynamic patterns of use within and across cohorts, as well as to identify the unique and combined patterns of dual use that best predict eventual quitting of combustible cigarettes. Study results will have clinical and regulatory implications for the fast-growing number of alternative tobacco products and those who (co-)use them.

Role: Co-PI

Total Amount: \$3,240,781

Requested:

Funding Source: NIH/National Institute of Drug Abuse (NIDA)

R01DA059562	Klemperer (PI)	01/24 – 12/28
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A Randomized Controlled Trial of Reduced Nicotine Cigarettes and E-cigarettes Among Dual Users

The goal of this multi-site trial is to use a double-blind 2x2 between-subjects factorial design to examine how limits on cigarette and e-cigarette nicotine content affect cigarette smoking among adult dual users.

Role: PI

Total Award: \$3,945,408

Amount:

Funding Source: NIH/National Institute of Drug Abuse (NIDA) and the Food and Drug Administration (FDA)

P30GM149331	Higgins (Center PI)/ Klemperer	08/23-07/28
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(Associate Director; Leader of Pilot Project Program)

Vermont Center on Behavior and Health

Phase 3 of our Center of Biomedical Research Excellence (COBRE) supports the Vermont Center on Behavior and Health's competitiveness in obtaining external grants to foster new research and dissemination initiatives. I will transition from Project Leader to Associate Director of our center on February 1, 2024. Additionally, I direct our center's innovative Pilot Project Program to support early-career investigators in generating preliminary data for grant applications.

Role: Associate Director; Leader of Pilot Project Program
 Total Award Amount: \$5,850,000
 Funding Source: NIH/National Institute of General Medical Science (NIGMS) Center of Biomedical Research Excellence (COBRE)

U54DA036114 Higgins (Center PI)/ Klemperer 01/20-08/24 (NCE)
 (Project Co-PI)

University of Vermont Tobacco Center of Regulatory Science

This center conducts multiple large multisite randomized controlled trials to test the impact of reduced nicotine content cigarettes in vulnerable populations.

Role: Project Co-PI
 Total Award Amount: \$19,381,385
 Funding Source: NIH/National Institute of Drug Abuse (NIDA) and the Food and Drug Administration (FDA)

UD9RH33633 Sigmon (Center PI)/ Klemperer 01/20-08/28
 (Core Co-Director: Education and Outreach)

University of Vermont Center on Rural Addiction/Rural Center of Excellence on SUD Treatment

The goal of this project is to develop the University of Vermont Center on Rural Addiction to identify, translate, disseminate and implement science-based practices to address the rural OUD epidemic, as well as future substance use disorder (SUD) epidemics as they emerge.

Role: Core Co-Director: Education and Outreach
 Total Award Amount: \$17,032,580
 Funding Source: Health Resources and Services Administration (HRSA)

R01DA057308 Peck (PI)/Klemperer (Co-I) 07/2023-06/2028

Novel Telemedicine-Delivered Prolonged Exposure Therapy for Treating PTSD in Individuals with OUD

The goal of this project is to rigorously evaluate the efficacy of a novel telemedicine-delivered prolonged exposure (PE) therapy protocol for improving PE attendance and reducing posttraumatic stress disorder symptom severity in individuals with concurrent opioid use disorder.

Role: Co-Investigator
 Total Award Amount: \$3,827,469
 Funding Source: NIH/National Institute of Drug Abuse (NIDA)

Completed Research Support

1U2CDA050097	Taxman and Rudes (Center MPI)/Klemperer (Project PI)	3/24-9/24
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Technology Assisted Buprenorphine Plus Contingency Management to Improve Continuation of Medication for Opioid Use Disorder After Release From Incarceration: A Pilot Randomized Clinical Trial

The aim of this pilot study is to assess the feasibility of conducting a randomized clinical trial of technology assisted buprenorphine with contingency management to improve continuation of medication for opioid use disorder after release from incarceration in rural communities in Vermont.

Role: Project PI

Total Award Amount \$13,652

Requested:

Funding Source: NIH HEAL Justice Community Opioid Innovation Network (JCOIN) Supplemental funding

5P20GM103644-07	Higgins (Center PI)/ Klemperer (Project PI)	08/20-01/24
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A Randomized Controlled Trial of Smoking Cessation Treatment for Young Adult Dual Users of Combustible and Electronic Cigarettes

The goal of this randomized clinical trial is to test two versions of a nicotine replacement therapy-aided smoking cessation intervention for young adults who use both electronic cigarettes and combustible cigarettes.

Role: Project PI

Total Award Amount: \$11,312,337

Funding Source: NIH/National Institute of General Medical Science (NIGMS) Center of Biomedical Research Excellence (COBRE)

1U2CDA050097	Taxman and Rudes (Center MPI)/Klemperer (Project PI)	02/21-11/23
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A Statewide Evaluation of the Implementation of Medications for Opioid Use Disorder in Vermont Correctional Facilities and the Impact of COVID-19

The goal of this project is to evaluate the implementation and effectiveness of medication for opioid use disorder in Vermont's correctional facilities and the impact of the ongoing COVID-19 pandemic.

Role: Project PI

Total Award Amount: \$106,673

Amount:

Funding Source: NIH HEAL Justice Community Opioid Innovation Network (JCOIN) Rapid Innovation Grant

5P20GM103449-21	Francklyn (Center PI)/ Klemperer (Project Co-I)	06/22-05/23
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Vermont Biomedical Research Network Administrative Supplement: Emotional and Motivational Aftermath of Electronic Nicotine Delivery Systems (ENDS) Exposure

The goal of this study is to examine how nicotine alters brain-reward sensitivity by examining whether acute exposure to e-cigarettes increases reward-sensitivity among young adults who do not regularly use e-cigarettes.

Role: Project Co-I

Total Award Amount: \$190,184

Funding Source: NIH/National Institute of General Medical Sciences (NIGMS)
IDeA Networks of Biomedical Research Excellence

UD9RH33633-01-00 Sigmon (Center PI)/Klemperer 02/22-01/23
(Project PI)

A Qualitative Assessment of Access and Barriers to Medications for Opioid Use Disorder Among Incarcerated People from Rural Versus Non-rural Vermont Communities

The overarching goal is to qualitatively assess Vermont Department of Corrections residents' experience with medication for opioid use disorder (MOUD) while incarcerated, and how this differs between individuals from rural versus non-rural communities prior to incarceration.

Role: Project PI

Total Award \$47,111

Amount:

Funding Source: Health Resources and Services Administration (HRSA) Center on Rural Addiction (CORA)

U54 DA036114 Higgins (Center PI)/Klemperer 09/20 - 08/21
(Project PI)

Electronic Nicotine Delivery Systems' Influence on Combustible Cigarette Smoking and Demand: A Randomized Controlled Trial

The goal of this randomized controlled trial was to assess the impact of switching to reduced nicotine content e-cigarettes or reducing the number of e-cigarettes used per week on cigarette smoking among dual users.

Role: Project PI

Total Award \$96,975

Amount:

Funding Source: NIH/National Institute of Drug Abuse (NIDA) and the Food and Drug Administration (FDA) Tobacco Center of Regulatory Science (TCORS) Rapid Response Project

U54 DA036114 Higgins (Center PI)/Klemperer 02/16 - 02/18
(Project PI)

A Randomized Trial to Compare Switching to Very Low Nicotine Content Cigarettes Versus Reducing Cigarettes Per Day

The goal of this randomized trial was to compare reducing nicotine by switching to very low nicotine content cigarettes vs reducing the number of cigarettes smoked per day on changes in nicotine dependence.

Role: Project PI

Total Award \$108,000

Amount:

Funding Source: NIH/National Institute of Drug Abuse (NIDA) and the Food and Drug Administration (FDA) Tobacco Center of Regulatory Science (TCORS) Developmental Project

SCHOLARSHIP

Publications in Peer Reviewed Journals

**Indicates trainee status*

- 1 Nilsen, E., LeDonne, R., **Klemperer, E.**, Olund, S., (2011). Conflict resolution with a serious game for peace. In *Proceedings of the 7th international conferences on Games + Learning + Society Conference* (pp. 175-184). ETC press.
- 2 **Klemperer, E.**, & Nilsen, E. (2011) Promoting human rights when polarizing political perceptions with a serious game. In *Proceedings of the 7th international conferences on Games + Learning + Society Conference* (pp. 161-167). ETC press.
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In Review

1. Carpenter, M. J., Smith, T. T., Walters, K. J. Wahlquist, A. E., *Koval, K. R., & **Klemperer, E. M.** Evaluation of dual use as it develops in real time: reductions in combustible cigarette smoking during co-occurring use of e-cigarettes. *Manuscript under review*.
2. *Barrows, A., **Klemperer, E. M.**, Garavan, H., Allgaier, N., Lindson, N., & Taylor, G. Smoking reduction trajectories and their association with smoking cessation: A secondary analysis of longitudinal clinical trial data. *Manuscript under review*.
3. Chen, F. F. **Klemperer, E. M.**, Leventhal, M. A. & Higgins, S. T. Age, cumulative psychosocial risk factors, and cigarette smoking related health disparities in the United States between 2002-2019: a comprehensive analysis. *Manuscript under review*.
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In Preparation

1. *Feinstein, M. P., *Erath, T., Thrailkill, E., DeSarno, M., Medina, N., Higginst, S. T., & **Klemperer, E. M.** Investigating the substitutability of little cigars and cigarillos (LCCs) and e-cigarettes for cigarettes using the Experimental Tobacco Marketplace. *Manuscript in preparation*.
2. **Klemperer, E. M.**, Coleman, S. R. M., Baker, T., & Cook, J. W. When does smoking reduction counseling decrease attempts to quit smoking? An exploratory analysis of a randomized factorial trial. *Manuscript in preparation*.
3. **Klemperer, E. M.**, Skelly, J., *Marsh, K., *Meyers, S., *Feinstein, M. J. P., Carpenter, M. J., Villanti, A. C., & Higgins S. T. A factorial randomized clinical trial of nicotine replacement therapy for smoking cessation with treatment

recommendations to quit or continue e-cigarette use among young adult dual users. *Manuscript in preparation.*

Non-Peer Reviewed Publications

Review Articles

N/A

Books and Chapters

N/A

Other Scholarly Publications

- 1 **Klemperer, E. M.**, Wreschnig, L., Crocker, A., King-Mohr, J., Ramniceanu, A., Evans, E. A., & Rawson R. A. (2022). A statewide evaluation of the implementation and effectiveness of medications for opioid use disorder in Vermont correctional facilities and the impact of COVID-19. *Vermont House Committee on Corrections and Institutions and the Senate Committee on Institutions*.
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Abstracts

Regional

- 1 Garvey, K. T., Andrich, L., **Klemperer, E. M.**, Gregg, J., Hudson, L., & Rieckmann, T. (2013, October). *The Vivitrol pilot program: Workforce attitudes regarding the implementation of extended-release naltrexone to treat opioid dependence*. Poster presented and abstract published at the 69th Oregon Public Health Association conference, Eugene, OR.
- 2 Schaubhut, G. J., **Klemperer, E. M.**, Hruska, B., Price, M., & Fondacaro, K. (2014, October). *Concurrent substance use and post-traumatic stress disorder: Treatment model and research*. Poster presented and abstract published at the New England Rural Health conference, Westford, MA.
- 3 *Feinstein, M. P., *Erath, T., Thrailkill, E., DeSarno, M., Medina, N., Higgins, S. T., & **Klemperer, E. M.** (2024, March). *Do women vs men differ in nicotine product substitution for cigarettes using the experimental tobacco marketplace?* Poster presented and abstract published at the University of Vermont Cancer Center Scientific Retreat, Burlington, VT.

National

- 1 Rieckmann, T., & **Klemperer, E. M.** (2012, October). *Network participation and adoption of medications in substance abuse treatment over time*. Poster presented

and abstract published at the Addiction Health Services Research conference, New York, NY.

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- 3 Rieckmann, T., Srikanth, P., Garvey, K.T., Andrich, L., **Klemperer, E. M.**, & Hudson, L. (2014, October). *The Vivitrol pilot program (VPP): Predicting patient success in an injectable naltrexone treatment program*. Poster presented and abstract published at the Addiction Health Services Research conference, Boston, MA.
- 4 **Klemperer, E. M.**, & Hughes, J.R. (2014, October). *Does the magnitude of reduction in cigarettes per day predict smoking cessation? A literature review*. Poster presented and abstract published at the Behavior Change, Health, and Health Disparities conference, Burlington, VT.
- 5 **Klemperer, E. M.**, Hughes, J. R., & Naud, S. J. (2015, October). *Change in reported effectiveness of medications for alcohol abuse*. Poster presented and abstract published at the Behavior Change, Health, and Health Disparities conference, Burlington, VT.
- 6 **Klemperer, E. M.**, Hughes, J. R., & Callas, P. W. (2015, October). *Reducing nicotine by reducing cigarettes per day is associated with reduced dependence: A secondary data analysis*. Poster presented and abstract published at the National Institute of Health Tobacco Centers of Regulatory Science in-person meeting, Bethesda, MD.
- 7 **Klemperer, E. M.**, Hughes, J. R., Callas, P.W., & Solomon, L. J. (2016, October). *A mediation analysis of motivational, reduction, and usual care interventions for smokers who are not ready to quit*. Poster presented and abstract published at the Behavior Change, Health, and Health Disparities conference, Burlington, VT.
- 8 **Klemperer, E. M.** & Hughes, J. R. (2017, March). *A mediation analysis of brief interventions for smokers who are not ready to quit*. Poster presented and abstract published at the Collaborative Perspectives on Addiction conference, Albuquerque, NM.
- 9 **Klemperer, E. M.**, Hughes, J. R., & Naud, S. (2017, October). *Reduction in cigarettes per day prospectively predicts making a quit attempt: A fine-grained secondary analysis of a natural history study*. Poster presented and abstract published at the Behavior Change, Health, and Health Disparities conference, Burlington, VT.
- 10 **Klemperer, E. M.**, Verplaetse, T. L., & McKee, S. A. (2018, October). *Prevalence and description of natural recovery from opioid use disorder using the National Epidemiologic Survey on Alcohol and Related Conditions*. Poster presented and

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- 11 **Klemperer, E. M.**, Verplaetse, T. L., & McKee, S. A (2019, April). *Who recovers from opioid use disorder without treatment? Findings from the National Epidemiologic Survey on Alcohol and Related Conditions*. Poster presented and abstract published at the Collaborative Perspectives on Addiction conference, Providence, RI.
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- 13 Falcón, A., K., Dobbins, A. E., Geist, T., **Klemperer, E. M.**, & Fondacaro, K. (2020, March). *Vermont correctional addiction treatment program (VCAP): A novel approach to substance use treatment in corrections*. Poster presented and abstract published at the Association of Psychology Training Clinics conference, Albuquerque, NM.
- 14 *West J. C., Peasley-Miklus C., **Klemperer E. M.**, Roemhildt M., Trites J., Trutor M., & Villanti A. C. (2020, October). *Knowledge of State Marijuana Policy as a Measure of Exposure to Changes in Legal Status*. Poster presented and abstract published at the Vermont Center on Behavior and Health virtual conference.
- 15 **Klemperer, E. M.**, Hughes, J. R., Callas, P. W., West, J. C., & Villanti, A. C. (2020, October). *Characterizing US adult electronic cigarette users who are never combustible tobacco smokers in Wave 4 (2016-2018) of the Population Assessment of Tobacco and Health Study*. Poster presented and abstract published at the Behavior Change, Health, and Health Disparities conference, Burlington, VT.
- 16 Peck, K., Pagan, D., **Klemperer, E. M.**, Badger, G., & Sigmon, S. (2020, November). *Prolonged exposure for treating PTSD among individuals receiving methadone or buprenorphine for opioid use disorder*. Poster presented and abstract published at the Association for Behavioral and Cognitive Therapies conference.
- 17 *West, J. C., *Pomichter, E., *LePine, E., Ganz, O., **Klemperer, E. M.**, Mays, D., Mermelstein, R. J., & Villanti, A. C. (2021, October). *Harnessing mass media substance use prevention campaigns to inform polytobacco use prevention in US adolescents and young adults: a systematic review*. Poster presented and abstract published at the Behavior Change, Health, and Health Disparities conference, Burlington, VT.
- 18 *LePine, E., **Klemperer, E. M.**, Peasley-Miklus, C., *West, J. C., & Villanti, A. C. (2021, October). *Evaluating a smoking cessation text message intervention for socioeconomically-disadvantaged young adults: what is helpful and what can be improved?* Poster presented and abstract published at the Behavior Change, Health, and Health Disparities conference, Burlington, VT.

- 19 **Klemperer, E. M.**, Ramniceanu, A., King-Mohr, J., Wreschnig, L., Rawson, R., & Evans, E. A. (2022, October). *Contingency management: An opportunity to improve treatment outcomes for incarcerated individuals receiving medication for opioid use disorder in Vermont*. Poster presented and abstract published at the Behavior Change, Health, and Health Disparities conference, Burlington, VT.
- 20 *West, J. C., Pomichter, E., Ganz, O., **Klemperer, E. M.**, Mays, D., Mermelstein, R. J., & Villanti, A. C. (2022, October). *Testing polytobacco public education messages adapted from effective tobacco prevention mass media campaigns: Results from an online message testing trial*. Poster presented and abstract published at the Tobacco Centers of Regulatory Science (TCORS) virtual conference.
- 21 **Klemperer, E. M.**, Wreschnig, L., Crocker, A., King-Mohr, J., Ramniceanu, A., Evans, E. A., & Rawson, R. (2022, December). *The impact of COVID-19 and implementation of medication for opioid use disorder in a statewide correctional system on treatment engagement, post-release continuation of care, and overdose*. Poster presented and abstract published at the National IDeA Symposium of Biomedical Research Excellence (NISBRE) virtual conference.
- 22 *Batchelder, S. R., Napoles, J., Peasley-Miklus, C., Shaw, J., **Klemperer, E. M.**, Peck, K. R., Heil, S., Sigmon, S. C., & Villanti, A. C. (2023, October) *Supporting smoking cessation among rural patients via Tobacco Toolkit provision to rural healthcare providers* Poster presented and abstract published at the Vermont Center on Behavior and Health conference, Burlington, VT.
- 23 *Marsh, K., *Feinstein, M. P., Skelly, J., & **Klemperer, E. M.** (2023, October). *Attempts to quit smoking and vaping among a treatment seeking sample of young adult women who dually use cigarettes and e-cigarettes*. Poster presented and abstract published at the Vermont Center on Behavior and Health conference, Burlington, VT.
- 24 *Feinstein, M. P., *Erath, T., Thrailkill, E., DeSarno, M., Medina, N., Higgins, S. T., & **Klemperer, E. M.** (2023, October). *Do women vs men differ in nicotine product substitution for cigarettes using the experimental tobacco marketplace?* Poster presented and abstract published at the Vermont Center on Behavior and Health conference, Burlington, VT.
- 25 *West, J. C., Ganz, O., **Klemperer, E. M.**, Mays, D., Mermelstein, R. J., & Villanti, A. C. (2023, October). *Who uses multiple tobacco products? Psychosocial characteristics unique to adolescent and young adult polytobacco users*. Poster presented and abstract published at the Vermont Center on Behavior and Health conference, Burlington, VT.
- 26 *Wiley, R. C., *Middleton, W. A., *O'Connor, S. D., Skelly, J., Sigmon, S., & **Klemperer, E. M.** (2023, October). *The association between sweet and cooling e-cigarettes and concurrent combusted cigarette abstinence in a prospective natural history study*. Poster presented and abstract published at the NIH Tobacco Regulatory Science Meeting, Washington, DC.

- 27 *Berglund, L. C., *Feinstein, M. P., *Ogadi, P., *O'Connor, S., & **Klemperer, E. M.** (2024, October). *Investigating reasons for first product use after waking among young adults who dually use cigarettes and e-cigarettes: A secondary analysis of baseline responses among participants in a randomized clinical trial*. Poster presented and abstract published at the Vermont Center on Behavior and Health conference, Burlington, VT.
- 28 *Feinstein, M. P., *Marsh, K., Higgins, S. T., & **Klemperer, E. M.** (2024, October). *A secondary analysis of smoking cessation treatment for young adults who dually use cigarettes and e-cigarettes: Investigating e-cigarette abstinence as a mediator of smoking cessation*. Poster presented and abstract published at the Vermont Center on Behavior and Health conference, Burlington, VT.
- 29 McDaniel, J. T., Coleman, S. R. M., **Klemperer, E. M.**, Redner, R., Chen, F., & Higgins, S. T. (2024, October) *Exploring the intersectionality of disparities in cigarette smoking among US adults by gender, rurality, and military status, 2013-2019*. Poster presented and abstract published at the Vermont Center on Behavior and Health conference, Burlington, VT.

International

- 1 **Klemperer, E. M.**, Rieckmann, T., Vandersloot, D., & Garvey, K. (2013, June). *Organizational dynamics and the integration of technology in substance abuse treatment: A shift in workforce perception*. Poster presented and abstract published at the College on Problems of Drug Dependence conference, San Diego, CA.
- 2 Andrich, L., Garvey, K. T., **Klemperer, E. M.**, & Rieckmann, T. R. (2014, June). *Workforce attitude regarding the implementation of extended release naltrexone to treat opioid dependence*. Poster presented and abstract published at the College on Problems of Drug Dependence conference, San Juan, Puerto Rico.
- 3 **Klemperer, E. M.** & Hughes, J.R. (2015, February). *Does the efficacy of medications for treating tobacco use decrease over time?* Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, Philadelphia, PA.
- 4 **Klemperer, E. M.** & Hughes, J.R. (2015, February). *Does the magnitude of reduction in cigarettes per day predict smoking cessation? A qualitative review*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, Philadelphia, PA.
- 5 **Klemperer, E. M.** & Hughes, J.R. (2015, June). *Treatment expectations for non-pharmacological interventions predict quit attempts and readiness to quit in smokers who were not ready to quit*. Poster presented and abstract published at the College on Problems on Drug Dependence conference, Phoenix, AZ.
- 6 Kurti, A. N., **Klemperer, E. M.**, Zvorsky, I. A., Redner, R., Priest, J., & Higgins, S. (2016, June) *Some context for understanding the place of the GED in the relationship between educational attainment and smoking prevalence*. Poster

presented and abstract published at the College on Problems on Drug Dependence conference, Palm Springs, CA.

- 7 **Klemperer, E. M.** & Hughes, J. R. (2017, March). *Reducing nicotine levels increases obtainment of nicotine replacement therapy: A secondary analysis*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, Florence, Italy.
- 8 **Klemperer, E. M.** & Hughes, J. R. (2017, March). *Greater magnitude and duration of reduction in cigarettes per day prospectively predict increased quit attempts: A secondary analysis of a natural history study*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, Florence, Italy.
- 9 **Klemperer, E. M.**, Hughes, J. R. & Naud, S. (2018, February). *Distal measurements can produce false negative results: A secondary analysis of a natural history study*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, Baltimore, MD.
- 10 West, J. C., Villanti, A., **Klemperer, E. M.**, Graham, A. L., Mays, D., Mermelstein, R., & Higgins, S. T. (2019, February). Smoking cessation interventions for U.S. young adults: New evidence from a systematic review. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, San Francisco, CA.
- 11 Nighbor, T. D., **Klemperer, E. M.**, Reed, E. N., Simone, S., West, J. C., & Hughes, J. R. (2020, March). *Both Reducing Cigarettes per Day and Transitioning to Very Low Nicotine Content Cigarettes Decrease Demand for Usual-Brand Cigarettes*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, New Orleans, LA.
- 12 **Klemperer, E. M.**, West, J. C., Peasley-Miklus, C., Williams R., Vallencourt, C., Roemhildt, M., Carman, C., & Villanti, A. C. (2020, March). *Prevalence and reasons for reducing or quitting vaping in young adults: Findings from the PACE Vermont Study* Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, New Orleans, LA. [Electronic presentation due to COVID 19 travel restrictions]
- 13 **Klemperer, E. M.**, Hughes, J. R., Cook, J. W., Peasley-Miklus, K., Streck, J. M., Callas, P. W., & Morley, N. E. (2020, March). *Is low positive affect a symptom of tobacco withdrawal? A meta-analysis*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, New Orleans, LA. [Electronic presentation due to COVID 19 travel restrictions]
- 14 **Klemperer, E. M.**, Baker, T. B., & Cook, J. W. (2020, June). *Predictors of smoking cessation attempts and success following motivation-phase interventions among people initially unwilling to quit smoking*. Poster presented and abstract published at the College of Problems on Drug Dependence virtual conference. [In-person conference canceled due to COVID-19]

- 15 **Klemperer, E. M.**, Hughes, J. R., Callas, P.W., West, J. C., & Villanti A. C. (2021, February). *Tobacco use among US adult “never smokers” in Wave 4 (2016-2018) of the Population Assessment of Tobacco and Health Study*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco virtual conference.
- 16 *West J. C., Burt K., **Klemperer E. M.**, Chen H. L., & Villanti A. C. (2021, June). *Perceived addictiveness of marijuana, tobacco and alcohol use in Vermont youth and young adults: associations between addiction perceptions, sociodemographics, and substance use*. Poster presented and abstract published at the College on Problems on Drug Dependence virtual conference.
- 17 **Klemperer, E. M.**, Streck, J. M., Hughes, J. R., & Lindson, N. (2021, June) A *systematic review of interventions to induce attempts to quit tobacco among adults not ready to quit*. Poster presented and abstract published at the College on Problems on Drug Dependence virtual conference.
- 18 DeBellis, D. & **Klemperer, E. M.** (2022, March) *Change in Internet searches for smoking cessation during the COVID-19 pandemic in the United States*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco, Baltimore, MD.
- 19 **Klemperer, E. M.**, Bunn, J. Y., Carpenter, M. J., Cummings, K. M., Smith, T. T., & Palmer, A. M. (2022, March) *Past year vaping quit attempts and cessation among US adults with current or past electronic nicotine delivery systems (ENDS) use: Findings from Wave 4 (2016-2018) of the Population Assessment of Tobacco and Health Study*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco, Baltimore, MD.
- 20 **Klemperer, E. M.**, Streck, J. M., Lindson, N., & Carpenter, M. J. A *systematic review and meta-analysis of interventions to induce attempts to quit tobacco among adults not ready to quit*. (2022, March) Poster presented and abstract published at the Society for Research on Nicotine and Tobacco, Baltimore, MD.
- 21 *Feinstein, M. P., Hughes, J. R., Peasley-Miklus, C. E., Naud, S., & **Klemperer, E. M.** (2022, March). *A systematic review and meta-analysis of electronic versus tobacco cigarette dependence*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco, Baltimore, MD.
- 22 Peasley-Miklus C., **Klemperer E. M.**, *LePine S. E., *West J. C., & Villanti A. C. (2022, March). *Perceived ability to handle stress and depressive mood without smoking predicts abstinence in socioeconomically-disadvantaged young adult smokers*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco, Baltimore, MD.
- 23 Villanti A. C., Peasley-Miklus C., **Klemperer E. M.**, *LePine S. E., *West J. C., Cha S., Mays D., Mermelstein R., Higgins S. T., & Graham A. L. (2022, March). *Randomized controlled trial of a tailored web and text message intervention for smoking cessation in socioeconomically-disadvantaged young adult cigarette*

- smokers*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco, Baltimore, MD.
- 24 *West J. C., *Pomichter E., *LePine S. E., Ganz O., **Klemperer E. M.**, Mays D., Mermelstein R. J., & Villanti A. C. (2022, March). *Potential effects of study design on mass media tobacco prevention campaigns evaluations: A systematic review*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco, Baltimore, MD.
 - 25 **Klemperer, E. M.**, Wreschnig, L., Crocker, A., King-Mohr, J., Ramniceanu, A., Evans, E. A., & Rawson, R. (2022, June). A statewide evaluation of the implementation and effectiveness of medications for opioid use disorder in Vermont correctional facilities and the impact of COVID-19. Poster presented and abstract published at the College on Problems of Drug Dependence, Minneapolis, MN.
 - 26 *Feinstein, M. P., Meyers, S., Skelly, J., & **Klemperer, E. M.** (2022, June). *An exploratory analysis of tobacco use and demographic characteristics among treatment-seeking adult dual users who prefer to quit cigarettes only vs cigarettes and e-cigarettes simultaneously*. Poster presented and abstract published at the College on Problems of Drug Dependence, Minneapolis, MN.
 - 27 *Feinstein, M. P., Marsh, K., Gaalema, D. E., & **Klemperer, E. M.** (2023, March). *The association between cumulative vulnerabilities and cigarette smoking in the United States: A review of nationally representative studies*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco, San Antonio, TX.
 - 28 *Wiley, R. C., *Middleton, W. A., O'Connor, S. D., Skelly, J., Sigmon, S., & **Klemperer, E. M.** (2023, June). *Fine-grained patterns of combusted cigarette and e-cigarette use among dual users who intend to quit smoking*. Poster presented and abstract published at the College on Problems of Drug Dependence conference, Denver, CO.
 - 29 *Barrows, A., **Klemperer, E. M.**, Garavan, H., Allgaier, N., Lindson, N., & Taylor, G. (2024, March). *Smoking reduction trajectories and their association with smoking cessation*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, Edinburgh, Scotland.
****Selected for Treatment Research Network poster tour****
 - 30 **Klemperer, E. M.**, *Kock, L., *Feinstein, M. J. P., *Marsh, K., Gaalema, D., & Higgins, S. T. (2024, March). *Sex differences in dual use and smoking cessation in the United States: Longitudinal findings from the Population Assessment of Tobacco and Health Study*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, Edinburgh, Scotland.
 - 31 **Klemperer, E. M.**, Coleman, S., Baker, T. B., & Cook, J. W. (2024, March). *When does smoking reduction counseling decrease cessation? An exploratory analysis of a randomized factorial trial of motivation-phase interventions for people who are not ready to quit*. Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, Edinburgh, Scotland.

- 32 *Wiley, R. C., *Middleton, W. A., *O'Connor, S. D., Skelly, J., Sigmon, S., & **Klemperer, E. M.** (2024, March). *Do dual users use their e-cigarettes more after achieving short-term combustible cigarette abstinence? Findings from an 8-week observational study.* Poster presented and abstract published at the Society for Research on Nicotine and Tobacco conference, Edinburgh, Scotland.
- 33 *Feinstein, M. P., *Erath, T., Thrailkill, E., DeSarno, M., Medina, N., Higgins, S. T., & **Klemperer, E. M.** (2024, June). *A test of nicotine product substitution for cigarettes and differences by vulnerabilities to smoking using the Experimental Tobacco Marketplace.* Poster presented and abstract published at the College on Problems of Drug Dependence conference, Montreal, Quebec, Canada.
- 34 *Wiley, R. C., *Middleton, W. A., *O'Connor, S. D., Chen, F. F., Sigmon, S., & **Klemperer, E. M.** (2024, June). *The association between e-cigarette use and concurrent combusted cigarette cessation-related outcomes in a prospective natural history study* Poster presented and abstract published at the College on Problems of Drug Dependence conference, Montreal, Quebec, Canada.
- 35 **Klemperer, E. M.**, Coleman, S., & Cook, J. W. (2024, June). *Exploring unexpected adverse effects from an intervention to reduce cigarette smoking: a secondary analysis of a randomized factorial trial.* Poster presented and abstract published at the College on Problems of Drug Dependence conference, Montreal, Quebec, Canada.

Patents Issued or Pending

N/A

Other Creative Activities

N/A

Quality Improvement and Patient Safety Activities

N/A

SUMMARY OF SCHOLARLY ACTIVITIES

Broadly, my research focuses on nicotine reduction, dual use of cigarettes and e-cigarettes, and interventions for people who are not motivated to quit smoking. I have two ongoing NIH-funded R01s. The first is a multi-site RCT testing nicotine reduction among adults who dually use cigarettes and e-cigarettes. The second is a large naturalistic cohort study to investigate longitudinal patterns of dual use of cigarettes and e-cigarettes. Both R01s build upon my previous work within the Vermont Center on Behavior and Health as an NIH funded Project Leader in our Center of Biomedical Research Excellence (COBRE). With over 55 publications in well-regarded peer-reviewed journals (including *JAMA Psychiatry*, *Addiction*, and *Tobacco Control*) and over 100 scholarly presentations, my research has made substantive scholarly contributions at the local, state, and national levels. I have led or collaborated on multiple large national and multi-site randomized controlled trials and have experience conducting both in-person and fully-remote

research. In addition to my work in tobacco, I have an emerging line of research examining the treatment of opioid use disorder among incarcerated individuals, which includes a recently completed NIH-funded statewide evaluation of the implementation of medication for opioid use disorder in Vermont correctional facilities. My ongoing leadership roles within three federally funded research centers as well as my growing body of independent research grant funding has positioned me well to continue to build my program of research in addiction and behavioral health interventions.

INVITED PRESENTATIONS

Regional Talks

- 1 **Klemperer, E. M.** (2016, August). A mediation analysis of motivational, reduction, and usual care interventions for smokers who are not ready to quit. Paper presentation at the annual Training in Behavioral Pharmacology of Drug Dependence Scientific Retreat, Vergennes, VT.
- 2 **Klemperer, E. M.** (2017, August). Reduction in cigarettes per day prospectively predicts making a quit attempt: a fine-grained secondary analysis of a natural history study. Paper presentation at the annual Training in Behavioral Pharmacology of Drug Dependence Scientific Retreat, Vergennes, VT.
- 3 **Klemperer, E. M.** (2019, July). Who remits from opioid use disorder without treatment? Findings from the National Epidemiologic Survey on Alcohol and Related Conditions. Paper presentation at the annual Training in Behavioral Pharmacology of Drug Dependence Scientific Retreat, Vergennes, VT.
- 4 **Klemperer, E. M.** (2019, August). Remission from opioid use disorder without treatment in the United States. Paper presentation for the University of Vermont Larner College of Medicine Excellence in Research Symposium, Burlington, VT.
- 5 **Klemperer, E. M.** (2020, July). Dual use and smoking cessation: recent and upcoming research. Paper presentation at the annual Training in Behavioral Pharmacology of Drug Dependence Scientific Retreat, Vergennes, VT.
- 6 **Klemperer, E. M.** (2021, August). Preliminary findings from a statewide evaluation of the implementation of medications for opioid use disorder (MOUD) in Vermont correctional facilities. Paper presentation and abstract publication at the Northeast Regional Institutional Development Award (IDeA) Conference.
- 7 **Klemperer, E. M. & Lyon-Horne, J.** (2022, May). Nicotine replacement therapy tobacco treatment toolkits to promote smoking cessation among people receiving medication for opioid use disorder. Oral presentation for the Maine Health Center for Tobacco Independence Conference, virtual presentation.
- 8 **Klemperer, E. M. & Lyon-Horne, J.** (2022, August). Tobacco treatment toolkits to promote smoking cessation in rural Vermont communities. Oral presentation for the Vermont Department of Health Tobacco Control Group, virtual presentation.

- 9 **Klemperer, E. M.** (2022, November). Applying motivation-phase interventions to treat tobacco use among people with opioid use disorder. Oral presentation for the Center on Rural Addiction (CORA) Community Rounds Workshop Series, virtual presentation.
- 10 **Klemperer, E. M.** (2022, December). Tobacco and our rural community. Oral presentation for the Healthy Lamoille Valley Tobacco and Vape Taskforce Meeting, virtual presentation.
- 11 **Klemperer, E. M.** (2023, April). Harm reduction panel. Center on Rural Addiction (CORA) Scholarship Program, Burlington, VT.
- 12 **Klemperer, E. M. & Villanti A. C.** (2023, May). Tobacco treatment toolkits for people living in rural communities. Oral presentation for the Vermont Department of Health Grand Rounds, Burlington, VT.
- 13 **Klemperer, E. M.** (2023, June). Nicotine replacement therapy and tobacco-related health disparities. Oral presentation for the Center for Population Health - Cheshire Medical Center, Keene, NH.
- 14 **Klemperer, E. M., Bourne, D., & Brown, T.** (2023, December). *National and local reflections on the integration of tobacco cessation in behavioral health systems.* Paper presentation and abstract publication at the New Hampshire Behavioral Health Summit, Manchester, NH.
- 15 **Klemperer, E. M.** Tobacco treatment for people living with mental health or substance use disorders. (2024, October) Presentation at the Vermont Department of Health Behavioral Health Meeting, Waterbury, VT.

National Talks

- 1 **Klemperer, E. M., Nielsen, E.** (2011, June). *Conflict resolution with a serious game for peace.* Paper presentation and abstract publication at the Games, Learning, and Society conference, Madison, WI.
- 2 **Klemperer, E. M., Rieckmann, T., & Campbell, A.** (2012, October). *Factors influencing the use of technology in substance abuse treatment.* Paper presentation and abstract publication at the Addiction Health Services Research conference, New York, NY.
- 3 **Klemperer, E.M., Hughes, J. R., Callas, P. W., & Morley, N.** (2018, June). *A randomized trial to compare switching to very low nicotine content cigarettes vs reducing cigarettes per day.* Plenary paper presentation and abstract publication at the National Institute of Health's Tobacco Regulatory Science meeting, Washington D.C.
- 4 **Klemperer, E. M.** (2021, August). Interventions for adults who are not motivated, not willing, or not ready to quit smoking. Oral presentation for the NIDA Nicotine & Tobacco Research Team (NTRT).

- 5 **Klemperer, E. M.** (2021, September). Preliminary findings from a statewide evaluation of the implementation of medications for opioid use disorder (MOUD) in Vermont correctional facilities and the impact of COVID-19. Oral presentation for the NIH HEAL Justice Community Opioid Innovation Network (JCOIN).
- 6 **Klemperer, E. M.** (2021, December). A statewide evaluation of the implementation of medications for opioid use disorder (MOUD) in Vermont correctional facilities and the impact of COVID-19. Oral presentation for the Center of Biomedical Research Excellence (COBRE) on Opioids and Overdose, Rhode Island.
<https://www.youtube.com/watch?v=3cK0mBm2qkg>
- 7 **Klemperer, E. M.** (2022, August). The influence of e-cigarette reduction on combusted cigarette smoking: A pilot randomized controlled trial. Oral presentation for the CASEL Tobacco Centers of Regulatory Science (TCORS) Webinar Series.
- 8 **Klemperer, E. M.,** Luo, X., Jensen, J., al'Absi, M., Cinciripini, P. M., Robinson, J. D., Drobos, D. J., McClernon, J., Strasser, A. A., Strayer, L. G., Vandrey, R., Benowitz, N. L., Donny, E. C., & Hatsukami, D. K. (2022, October). *Smoking abstinence and cessation-related outcomes one month after an immediate versus gradual reduction in nicotine content of cigarettes*. Plenary paper presentation and abstract publication at the Tobacco Centers of Regulatory Science (TCORS) virtual conference.
- 9 **Klemperer, E. M.** (2023, April). Emerging evidence to inform tobacco treatment for dual users. Oral presentation for the Promoting Advancements for Cancer Control and Health Equity Seminar (PACES). Charleston, SC.
- 10 **Klemperer, E. M.** (2023, June). The impact of the implementation of medication for opioid use disorder and COVID-19 in a statewide correctional system on treatment engagement, post-release continuation of care, and overdose. Oral presentation for the NIH HEAL Justice Community Opioid Innovation Network (JCOIN) steering committee.
- 11 **Klemperer, E. M.** (2023, August). *Implementing medication for opioid use disorder and the impact of COVID-19 on treatment engagement and post-release overdose in a statewide correctional system*. Paper presentation and abstract publication at the Northeast Regional IDeA Conference (NERIC), Wilmington, DE.
- 12 **Klemperer, E. M.,** *Kock, L., *Feinstein, M. P., *Marsh, K., & Higgins, S. T. (2023, October). *Dual use of cigarettes and e-cigarettes among women in the United States: Nationally representative findings from the Population Assessment of Tobacco and Health Study*. Paper presentation and abstract publication at the Vermont Center on Behavior and Health conference, Burlington, VT.
- 13 **Klemperer, E. M.** (2023, October). *Implementing medication for opioid use disorder in a statewide correctional system*. Paper presentation and abstract publication at the Vermont Center on Behavior and Health conference, Burlington, VT.

- 14 **Klemperer, E. M.** (2024, May). *Preliminary evidence from a randomized controlled trial of nicotine replacement therapy for smoking cessation with advice to continue vs quit e-cigarettes among dual users*. Oral presentation for the University of Wisconsin Center for Tobacco Research and Intervention, Madison, WI.
- 15 **Klemperer, E. M.** (2024, October). *Frequency of e-cigarette use as a mediator of effects in three randomized controlled trials of reduced nicotine content cigarettes with tobacco- vs preferred-flavored e-cigarettes in high-risk populations*. Paper presentation and abstract publication at the Vermont Center on Behavior and Health conference, Burlington, VT.

International Talks

- 1 **Klemperer, E. M.** & Hughes, J.R. (2014, June). *Does the efficacy of medications for substance abuse treatment decrease over time?* Paper presentation and abstract publication at the College on Problems of Drug Dependence conference, San Juan, Puerto Rico.
- 2 **Klemperer, E. M.**, Hughes, J. R., Solomon, L. J., Callas, P. W., & Fingar, J. R. (2016, March). *A randomized controlled trial of motivational and reduction interventions for smokers who are not ready to quit*. Paper presentation and abstract publication at the Society for Research on Nicotine and Tobacco conference, Chicago, IL.
- 3 **Klemperer, E.M.** & Hughes, J. R. (2016, May). *Study characteristics account for the majority of variance in clinical trials of medications for alcohol use disorders: A meta-analysis*. Paper presentation and abstract publication at the Society for Clinical Trials conference, Montreal, Quebec, Canada.
- 4 **Klemperer, E.M.** & Hughes, J. R. (2016, June). *Reduction in cigarettes per day prospectively predicts quit attempts and cessation in smokers who are not ready to quit*. Paper presentation and abstract publication at the College of Problems on Drug Dependence conference, Palm Springs, CA.
- 5 **Klemperer, E.M.**, Hughes, J. R., & Naud, S. (2017, May). *Nonpharmacological study characteristics account for the majority of variance in clinical trials of medications for tobacco and alcohol use disorders: a meta-analysis*. Paper presentation and abstract publication at the College of Problems on Drug Dependence conference, Montreal, Quebec, Canada.
- 6 **Klemperer, E.M.**, Hughes, J. R., & Callas, P. (2019, February). *Clinical outcomes from a randomized trial to compare reducing nicotine with very low nicotine content cigarettes versus reducing number of cigarettes per day*. Paper presentation and abstract publication at the Society for Research on Nicotine and Tobacco conference, San Francisco, CA.

- 7 **Klemperer, E. M.**, Lamberson, M., Bidad, R., Dubuque, A., Morgan, C., Herrington, R., Mahler, B., Jackson, P., Maruti M., Wolfson, D., Goedde, M., Dewitt, K., Rawson R., & Mackey, S. (2020, July). *Implementation, recruitment, and retention for an emergency department initiated buprenorphine intervention for opioid use disorder*. Paper presentation and abstract publication at the Society for Clinical Trials contributed session virtual presentation. [In-person conference canceled due to COVID-19]
- 8 **Klemperer, E. M.** & Villanti, A. C. (2021, February). *Why and how do dual users quit electronic cigarettes? Findings from a cross-sectional internet survey*. Paper presentation and abstract publication at the Society for Research on Nicotine and Tobacco virtual conference.
- 9 **Klemperer, E. M.**, Bunn, J. Y., Palmer, A. M., Smith, T. T., Toll, B. A., Cummings, K. M., & Carpenter, M. J. (2023, March). *E-cigarette cessation and transitions in combusted tobacco smoking status: Longitudinal findings from the US FDA PATH Study*. Paper presentation and abstract publication at the Society for Research on Nicotine and Tobacco conference, San Antonio, TX.
- 10 **Klemperer, E. M.**, *Feinstein, M. J., Skelly, J., O'Connor, S., *West, J. C., Peasley-Miklus, C., Hatsukami, D. K., & Higgins, S. T. (2023, June). *The influence of e-cigarette reduction on combusted cigarette smoking among dual users: A pilot randomized controlled trial*. Paper presentation and abstract publication at the College on Problems of Drug Dependence conference, Denver, CO.

CHAired SYMPOSIA

- 1 Mashhoon, Y. & **Klemperer, E. M.** (2016, June) Cigarettes: Nicotine. Co-chaired symposium at the College on Problems of Drug Dependence (CPDD) conference, Palm Springs, CA.
- 2 **Klemperer, E. M.** (2021, October). Paper Session 2. Chaired symposium at the Vermont Center on Behavior and Health (VCBH) conference, virtual meeting.
- 3 **Klemperer, E. M.** (2022, October). ENDS and Cigarette Smoking Cessation. Chaired symposium at the Tobacco Centers of Regulatory Science (TCORS) conference, virtual meeting.
- 4 **Klemperer, E. M.** & Bold, K. W. (2023, June). Nicotine Clinical Treatments. The College on Problems of Drug Dependence conference, Denver, CO.

INVITED MEDIA INTERVIEWS

- 1 **Klemperer, E. M.** (2021, April). UVM Brings Therapy to Federal Prisoners. Invited interview on the Vermont Correctional Addiction Treatment Program (VCAP) for an article in *Seven Days*: <https://www.sevendaysvt.com/vermont/inmates-interrupted-uvm-brings-therapy-to-federal-prisoners/Content?oid=5061596>

- 2 Higgins S. T. & **Klemperer, E. M.** (2022, August). UVM Researchers Contributing to FDA Nicotine Studies. Invited interview for a story on tobacco regulatory science research on UVM on *WCAX Channel 3*.
- 3 **Klemperer, E. M.** (2023, June). UVM research on the implementation of medication assisted treatment in Vermont's correctional facilities. Invited radio interview on *Vermont Public*.
- 4 **Klemperer, E. M.** (2023, August). Treatment for opioid use disorder in Vermont's prisons. Invited interview for a story on *ABC Channel 22*.
- 5 **Klemperer, E. M.** (2023, August). Study finds success in prison opioid treatment program. Invited interview for an article in *VT Digger*: <https://vtdigger.org/2023/08/10/study-finds-successes-in-prison-opioid-treatment-program/>
- 6 **Klemperer, E. M.** (2023, December). In Putney, harm reduction takes a rural focus. Invited interview for an article in *VT Digger*: <https://vtdigger.org/2023/12/11/in-putney-harm-reduction-takes-a-rural-focus/>
- 7 **Klemperer, E. M.** (2024, March). UVM researcher studies how to best help smokers cut nicotine. Invited interview for a story on *WCAX Channel 3*: <https://www.wcax.com/2024/03/06/uvm-researcher-studies-how-best-help-smokers-cut-nicotine/>
- 8 **Klemperer, E. M.** (2024, April). New UVM tests nicotine reduction in cigarettes and e-cigarettes. Invited interview for a story aired on *ABC Channel 22 and Fox Channel 44*: <https://www.mychamplainvalley.com/news/your-best-life/your-best-life-uvm-nicotine-study/>