

Diann E. Gaalema
CURRICULUM VITAE

Position: Associate Professor
Department of Psychiatry

Address: 1 S. Prospect St, UHC MS 482
Department of Psychiatry
Larner College of Medicine
University of Vermont
Burlington, VT 05405
Voice: (802) 656-9874
Email: diann.gaalema@med.uvm.edu
Website: http://www.researchgate.net/profile/Diann_Gaalema

EDUCATION

Year	Institution	Degree	Area of Degree, Accolades
2010-2012	University of Vermont	Postdoc	Behavioral Pharmacology
2004-2010	Georgia Institute of Technology	PhD	Experimental Psychology
1999-2003	Arizona State University	BA	Psychology

LICENSES, CERTIFICATION - none

FACULTY POSITIONS HELD

Years	Institution	Academic Title	Department
2019-current	University of Vermont	Associate Professor	Psychiatry
2012-2019	University of Vermont	Assistant Professor	Psychiatry
2011 (summer)	Sandia National Labs	Visiting Faculty	Behavioral Neuroscience

OTHER POSITIONS AND MAJOR ADMINISTRATIVE POSITIONS HELD

Years	Location/Program Name	Role
2013-current	Graduate College, University of Vermont	Member
2013-current	University of Vermont Department of Psychological Science	Secondary Appointment

HONORS AND AWARDS

Year	Name of Award
1999	National Merit Scholar
2002	Hughes Program Fellowship Recipient
2008	American Psychological Association dissertation award
2009	Society for the Advancement of Behavior Analysis dissertation award
2009	National Science Foundation EAPSI summer fellowship
2009	Graduate student of the year, Georgia Institute of Technology, School of Psychology

2011 NIDA Women & Sex/Gender Junior Investigator travel award
 2011 APA travel award
 2013 NIDA Early Career Investigator Travel Award
 2016 NISBRE Young Investigator travel award
 2016 NIDA Women & Sex/Gender Junior Investigator travel award
 2016 CVRI-VT travel award
 2015-17 NIDA Tobacco Centers of Regulatory Science (TCORS) Developmental Award
 2021-22 NIDA Tobacco Centers of Regulatory Science (TCORS) Rapid Response Award

KEYWORDS/AREAS OF INTEREST

Vulnerable populations, cardiac rehabilitation, tobacco, secondary prevention, behavioral economics, incentives, health-related behavior change.

SUMMARY OF PROFESSIONAL ACTIVITIES- OVERALL *[optional-needed for promotion and reappointment]* Principle activity (e.g. teaching, research or clinical) *[Focus on activities in last 5 years, but include longer time periods as appropriate. Be concise and limit to 500 words or less.]*

I joined UVM as faculty in 2012 and am currently an Associate Professor in the department of Psychiatry in UVM's Lerner College of Medicine, with a secondary appointment in UVM's Department of Psychology. My principle activity is research with effort also dedicated to teaching and service.

I have been continuously funded by NIH throughout my time as a UVM faculty member. I began my faculty career supported by R01 grants. I quickly transitioned to collaborating on the submission of two large center grants, which were funded (P20 COBRE Award, P50 TCORS Award). I was also involved in the application for competitive renewal for those center grants, which were also funded (P20, U54). I have also secured independent funding having received an R61/33 (R01-level) grant. I have begun to get requests to serve on other researcher's grants as co-I, consultant, and mentor.

During my academic career, I have published 98 peer-reviewed manuscripts. Of these publications, 86 were published during my time on the UVM faculty, averaging 8.6 publications per year. The impact of these publications is evident in the high-impact journals that have housed them (e.g. Circulation IF 29.7; Journal of the American Medical Association-Psychiatry IF 21.6), and in the fact that they have been cited more than 2500 times.

The standing of my research in this field is further demonstrated by invited presentations and requests for dissemination products. I have been invited to give oral presentations at multiple national conferences (Association for Behavior Analysis International [ABAI], American Association of Cardiovascular and Pulmonary Rehabilitation [AACVPR], National Institutes of Health [NIH]) as well as at regional meetings and seminars. Additionally, I have been requested by multiple entities (Centers for Disease Control, AACVPR, International Council of Cardiovascular Prevention and Rehabilitation (ICCPR) to provide expertise in the areas of

cardiac rehabilitation, behavior change, and tobacco use for use in forming guidelines and providing ready to use change strategies.

I also contribute to the teaching and mentoring mission of the university in formal classroom settings, as well as formal and informal mentoring. I am a member of two training grants (NIDA T32 Training Award, TCORS U54 Award) which support 12-16 postdoctoral and predoctoral fellows. As part of these training programs, I provide ongoing informal mentoring and serve as primary course facilitator for a 16-week graduate seminar offered jointly through our T32 and TCORS postdoctoral/predocotrinal training programs each fall and spring semesters covering current topics and foundations in behavioral science, research ethics, and the behavioral pharmacology of addictions. As part of these training programs, I have served as the primary mentor for three postdoctoral fellows and one doctoral-level graduate student. I have also served on five thesis/dissertation committees, twice as chair. I also routinely provide mentoring for undergraduates, graduate students, medical students, and postdoctoral fellows that conduct research in our labs. Additionally, I have developed and twice taught a course in Behavioral Economics, once at the graduate and once at the undergraduate level.

Finally, I participate in numerous service activities. Locally, I serve on the Executive Committee as well as Associate Chair of the Collaboration, Dissemination, and Education Core for the Vermont Center of Behavior and Health COBRE Award. Nationally I serve as chair for the annual meeting of the College on Problems of Drug Dependence (CPDD) Contingency Management Working Group, and serve on standing committees for NIH/FDA, the AACVPR, and CPDD. Recently I have begun serving as an ad-hoc member on study sections for NIH/FDA. Internationally, I serve on the International Council of ICCPR as a member of the steering committee as well as a subject-matter expert on tobacco use. From an editorial standpoint, I have served on the editorial board for two journals and as an ad-hoc reviewer for more than 15 journals. I have also been invited to be a guest editor for an upcoming issue of Journal of Cardiopulmonary Rehabilitation and Prevention.

In summary, I have a national reputation and am building an international reputation with a strong record of achievement in scholarly research, research mentoring, and service at the university, state, national, and international levels.

SUMMARY OF ACCOMPLISHMENTS

- Established national and growing international reputation in the fields of vulnerable populations, cardiac rehabilitation, and tobacco use.
- Continuous NIH funding during my tenure at UVM including current independent funding.
- Strong publication record, including 98 peer-reviewed papers cited over 2600 times.
- Dedication to research mentoring as demonstrated by membership on a prestigious T32 training grant, service on thesis/dissertation committees, mentoring of NIH-supported predoctoral and postdoctoral fellows, and classroom teaching.
- Ongoing service to academia and my field as seen by participation on committees within the university as well as professional and government national and international organizations.

PROFESSIONAL SERVICE

DEPARTMENTAL SERVICE

Years	Department	Committee	Role
2012-current	Psychiatry	Vermont Center for Tobacco Regulatory Science	Executive Committee member
2012-current	Psychiatry	Vermont Center on Behavior and Health	Executive Committee member Associate chair of Collaboration, Dissemination, and Education Core

COLLEGE SERVICES

Years	Service Committee	Role
2013-2018	College of Engineering and Mathematical Sciences IGERT	Member of Admissions Committee

MEDICAL CENTER SERVICE

Years	Service Committee	Role
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UNIVERSITY SERVICE

Years	Service Committee	Role
2015-2017	Neuroscience, Behavior and Health	Member of Steering Committee

GOVERNMENT

Years	Society	Role
2021	National Institute of Health	Member of Scientific Review Panel ZHL1 CSR-G(F1)
2021	National Institute of Health/Federal Drug Administration	Member of Scientific Review Panel ZRG1 RPHB-P(58)
2021	National Institute of Health	Member of Scientific Review Panel ZHL1 CSR-G(01)
2016-2020	National Institute of Health	Member of Early Career Reviewer Program
2016	National Institute of Health/Federal Drug Administration	Member of the Planning Committee for the annual Tobacco Regulatory Science meeting
2014-2018	National Institute of Health/Federal Drug Administration	Co-chair of the Vulnerable Population Working Group within Tobacco Regulatory Science funded members

2014-2018	National Institute of Health/Federal Drug Administration	Member of the Nicotine Reduction Working Group within Tobacco Regulatory Science funded members
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SOCIETY MEMBERSHIPS

Years	Society
2021-current	College on Problems of Drug Dependence, Full Member
2017-current	American Association of Cardiovascular and Pulmonary Rehabilitation, Regular Member
2010-2020	College on Problems of Drug Dependence, Associate Member
2008-current	American Psychological Association (Divisions 25 and 28)
2007-current	Association of Behavior Analysts International, Full member

SERVICE TO PROFESSIONAL ORGANIZATIONS

Years	Service Committee	Role
2015-2016	American Psychological Association Division 28	Early Career Psychologist Representative
2016-current	American Association of Cardiopulmonary Rehabilitation	Member of the Behavioral/Nutrition Committee
2015-2018	College on Problems of Drug Dependence	Member of the Publications Committee
2014-current	Contingency Management Working Group	Co-chair and more recently Chair
2020-current	College on Problems of Drug Dependence	Member of the Program Committee
2021-current	International Council of Cardiovascular Prevention and Rehabilitation	Member of the Steering Committee and Subject Matter Expert on Tobacco Use

SERVICE TO PROFESSIONAL PUBLICATIONS

Years	Publication
2020-current	Editorial Board, Journal of Cardiopulmonary Rehabilitation and Prevention
2022	Guest Editor of Special Issue on Primary Prevention, Journal of Cardiopulmonary Rehabilitation and Prevention
2016-2020	Standing Reviewer, Journal of Cardiopulmonary Rehabilitation and Prevention
2015-2020	Associate Editor, Tobacco Regulatory Science
2021	Guest reviewer, Mayo Clinic Proceedings
2021	Guest reviewer, Experimental and Clinical Psychopharmacology
2015-2021	Guest reviewer, Preventive Medicine
2017, 2019, 2021	Guest reviewer, Nicotine and Tobacco Research
2018	Guest reviewer, Pediatrics
2017	Guest reviewer, American Journal of Preventive Medicine
2016	Guest reviewer, Psychological Record
2016-2017	Guest reviewer, PLoS

2015, 2018	Guest reviewer, Drug and Alcohol Dependence
2014-2015	Guest reviewer, Addictive Behaviors
2014	Guest reviewer, Journal of Applied Behavior Analysis
2012, 2014	Guest reviewer, Addiction
2013	Guest reviewer, Journal of Neonatal-Perinatal Medicine
2012	Guest reviewer, International Journal of Comparative Psychology
2008	Guest reviewer, Journal of Applied Animal Welfare

PUBLIC SERVICE

Years	Service Role
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SUMMARY OF SERVICE ACTIVITIES

I participate in numerous service activities across all levels, regionally, up to internationally. Locally, I serve on the Executive Committee as well as Associate Chair of the Collaboration, Dissemination, and Education Core for the Vermont Center of Behavior and Health COBRE Award. I also serve on the Executive Committee for the Vermont Center for Tobacco Regulatory Science and as the Associate Chair of the Education and Outreach Core for the Vermont Center on Rural Addictions.

Nationally I serve as chair for the annual meeting of the College on Problems of Drug Dependence (CPDD) Contingency Management Working Group and currently serve on the Program committee for CPDD's annual conference as well. I have served multiple times on committees in service to NIH/FDA around Tobacco Regulatory Science and am a standing member of the Behavioral and Nutrition Committee of AACVPR. I now also get requests to serve as an ad-hoc member on study sections for NIH/FDA and have served on three such sessions. Internationally, I was requested to serve on the The International Council of Cardiovascular Prevention and Rehabilitation as a member of the Program Certification Steering Committee with a goal of providing a platform for low-resource cardiac rehabilitations programs to demonstrate delivery of evidence-based care. I also serve ICCPR as the subject-matter expert on tobacco use.

From an editorial standpoint, I have served on the editorial board for two journals and as an ad-hoc reviewer for more than 15 journals. I have also been invited to be a guest editor for an upcoming issue of Journal of Cardiopulmonary Rehabilitation and Prevention.

TEACHING**FORMAL SCHEDULED CLASSES**

Year	Course Title	Course		Hours	Number of Learners	Learner Level
		R	E			
2008	Introduction to Psychology	x		3	~100	U
2009	Experimental Analysis of Behavior	x		4	~25	U/G
2014	Behavioral Economics	x		3	~15	U/G
2016	Behavioral Economics	x		2	~10	G
2012-current	Trainee Seminar: Research in Behavioral Pharmacology	x		1	12-16	G

R-required; E-elective; Hours-approx. per semester; G-graduate studies (instruction as per the LCOM Teaching Academy Portfolio)

CURRICULUM DEVELOPMENT

Developed the Behavioral Economics course I taught.

POSTGRADUATE AND OTHER COURSES

Years	Department	Responsibility
2012-current	Psychiatry	Oversee weekly Behavioral Pharmacology Journal Club every Fall and Spring semester for 10-14 graduate students and post-docs.

PREDOCTORAL STUDENTS SUPERVISED OR MENTORED

Dates	Name	Program School	Role	Current Position
2015-2016	Hannah Apfelbaum	Honors thesis - Psychology	Chair	Medical school
2015-2016	Daniel Peipert	Honors thesis - Neuroscience	Chair	Graduate school
2017-2018	Alba Gonzalez	University of Oveido	Summer research mentor	Graduate school

DISSERTATION/THESIS COMMITTEE MEMBERSHIP

Dates	Name	Program School	Role	Current Position
2014-2015	Laura Chivers	PhD - Psychology	Chair	Faculty
2013-2014	Alexa Lopez	PhD - Psychology	Member	Researcher - Government
2015-2017	Sheau-Yan Ho	PhD - Clinical Psychology	Chair	Post-doc - VA
2017	Danielle Davis	Masters - Psychology	Member	Post-doc
2021	William Middleton	Masters - Psychology	Mentor	Grad student
2022	Carolyn Evemy	PhD - Preliminary Project	Member	Grad student

POSTDOCTORAL FELLOWS AND RESIDENTS DIRECTLY SUPERVISED OR MENTORED

Dates	Name	Fellow	Faculty Role	Current Position
2015-2016	Zachary Morford	Post-doctoral fellow	Research Mentor	Owner- Zuce Technologies
2017-current	Sherrie Khadanga	Medical Fellow	Research Mentor	Assistant Professor
2016-2018	Irene Pericot-Valverde	Post-doctoral fellow	Research Mentor	Faculty - Clemson
2019-2020	Hypatia Bolivar	Post-doctoral fellow	Research Mentor	Instructor – University of Illinois
2021-current	Brian Katz	Post-doctoral fellow	Research Mentor	Post-doctoral fellow

As training faculty on a 30+ year NIDA T32 and a more recently-funded P50/U54, I work closely and continuously with our pre- and post-doctoral fellows to shape their scientific thinking and skills, mastery of the scientific literature, and professional development as young investigators. Accordingly, I put high value on publishing in conjunction with my trainees. Below are several example publications from my prior and current trainees (trainees noted in **bold**):

1. Gaalema, DE, Elliott, R, **Morford ZH**, Ades, PA, Higgins, ST. Effect of Socioeconomic Status on Propensity to Change Risk Behaviors Following Myocardial Infarction: Implications for Healthy Lifestyle Medicine. (2017). Progress in Cardiovascular Disease. 10.1016/j.pcad.2017.01.001
2. **Pericot-Valverde, I.**, Gaalema, D. E., Priest, J. S., & Higgins, S. T. (2017). E-cigarette awareness, perceived harmfulness, and ever use among US adults. Preventive Medicine, 104, 92-99.
3. **Pericot-Valverde, I.**, Elliott, R. J., Miller, M., & Tidey, J., & Gaalema, D.E. (2018). Posttraumatic stress disorder and tobacco use: A systematic review and meta-analysis. Addictive Behaviors, 84, 238-247
4. **González-Roz, A.**, Gaalema, D.E., Pericot-Valverde, I., Elliott, R.J., Ades, P.A. A Systematic Review on the Diagnostic Accuracy of Depression Questionnaires for Cardiac Populations: Implications for Cardiac Rehabilitation. (2019). Journal of Cardiopulmonary Rehabilitation and Prevention
5. **Pericot-Valverde, I.**, Priest, JS, Wagener, TL, Gaalema, DE. (2019). Examination of a Mouthpiece-Based Topography Device for Assessing Relative Reinforcing Effects of E-Cigarettes: A Preliminary Study. Experimental and Clinical Psychopharmacology
6. **Pericot-Valverde, I.**, Elliott, RJ, Priest, JS, Barret, T, Yoon, JH, Miller, CC, Okoli, CT, Haliwa, I, Ades, PA, Gaalema, DE. (2019). Patterns of Tobacco Use Prior to Hospitalization for an Acute Cardiac Event: Use of Combusted and Non-Combusted Products. Preventive Medicine
7. **Pericot-Valverde, I.**, Yoon, JH., Gaalema, DE. (2020). Single- and Cross-Commodity Delay Discounting of Money and E-cigarette Liquid in Experienced E-Cigarette Users. Drug and Alcohol Dependence, 206
8. Gaalema, DE, **Bolívar, HA**, Khadanga, S, Priest, JS, Higgins, ST, Ades, PA. Current Smoking as a Marker of a High-Risk Behavioral Profile after Myocardial Infarction. (2020). Preventive Medicine
9. **Bolívar, HA**, Elliott, RJ, **Middleton, W**, Yoon, JH, Okoli, CTC, Haliwa, I, Miller, III, CC, Ades, PA, & Gaalema, DE. (2021). Social smoking environment and associations with cardiac rehabilitation attendance. Journal of Cardiopulmonary Rehabilitation and Prevention, 41, 46-51
10. **Pericot-Valverde, I.**, Heo, M, Litwin, AH, Niu, J, Gaalema, DE. Modeling the Effect of Stress on Vaping Behavior among Young Adults: A Randomized Cross-Over Pilot Study

- (2021). Drug and Alcohol Dependence
11. **Melbostad HS**, Savage PD, Mahoney K, Gaalema DE, Ades PA, Shepard DS. (2021). Financial impact of COVID-19 on phase 2 cardiac rehabilitation service delivery. Journal of Cardiopulmonary Rehabilitation and Prevention
 12. Gaalema, DE, O'Neill, S, Savage, P, **Bolívar, HA**, Denkmann, D, Khadanga, S, Ades, PA. (2021). The Association of Patient Educational Attainment with Cardiac Rehabilitation Adherence and Benefits of Cardiac Rehabilitation. Journal of Cardiopulmonary Rehabilitation and Prevention.
 13. **Middleton, WA**, Savage, PD, Khadanga, S, Rengo, JL, Ades, PA, Gaalema, DE. (2021). Benchmarking Depressive Symptoms in Cardiac Rehabilitation. Journal of Cardiopulmonary Rehabilitation and Prevention.

INFORMAL TEACHING

Year	One Sentence Description of Informal Teaching
2012-present	I regularly provide research and career mentoring to a subset of the T32/TCORS predoctoral and postdoctoral fellows in our research group (12-16), even if I do not directly supervise them.
2012-present	During the summer I hold weekly writing gatherings for these same fellows focusing on manuscripts and grant submissions.
2012-present	I collaborate with and mentor a variety of medical students, residents, and graduate students.
2014-present	I sponsor monthly webinars on Tobacco Regulatory Science, providing learning opportunities for fellows as well as our research assistants.
2014-present	There are always 2-3 undergraduate RAs/medical students/fellows working in my lab who I provide with research and career guidance.
2013-present	Allow dissemination of information from our yearly conference to a large audience by livestreaming talks.

FACULTY MENTORED

Dates	Name	Position while Mentored	Faculty Role	Current Position
2017-2020	Allison Kurti	Assistant Professor	Research Mentor	FDA
2020-current	Sherrie Khadanga	Assistant Professor	Research Mentor	Assistant professor

OTHER VISITING FACULTY SUPERVISED - none

TEACHING AIDS - none

TEACHING AWARDS AND NOMINATIONS - none

SUMMARY OF TEACHING ACTIVITIES

I contribute to the teaching and mentoring mission of the university in formal classroom settings, as well as formal and informal mentoring. I am a member of two training grants (NIDA T32 Training Award, TCORS U54 Award) which support 12-16 postdoctoral and predoctoral

Vermont Center on Rural Addictions

This center serves as a scientific resource for HRSA for supporting the treatment of rural population with opioid-use disorder.

Role: Co-I
Annual Direct Costs \$1,333,000

Completed Research Support

R61 HL143305 Gaalema (PI) 08/25/18-07/31/19

Improving Participation in Cardiac Rehabilitation among Lower-Socioeconomic Status

Patients: Efficacy of Early Case Management and Financial Incentives

This study investigates the efficacy of case management and financial incentives (alone and in combination) on improving cardiac rehabilitation participation among low-income patients.

Role: PI
Annual Direct Costs \$469,179

P20 GM103644 Higgins (PI) 09/15/13-07/31/18

Vermont Center on Behavior and Health

This center investigates relationships between personal behavior patterns (e.g., substance abuse, sedentary lifestyle, medication non-adherence) and risk for chronic disease and premature death.

Role: Co-I

P50 DA036114 Higgins (PI) 09/30/13-08/31/18

Vermont Center on Tobacco Regulatory Science

This center served as a scientific resource for the Food and Drug Administration (FDA) in carrying out its tobacco regulatory responsibilities by researching tobacco products in vulnerable populations.

Role: Co-I

R01 DA031928 Heil (PI) 09/15/12-07/31/15

The aim of this project was to test the reliability and discriminant, concurrent, construct, and predictive validity of pupil diameter as a measure of opioid effects in neonates exposed to opioids in utero.

Role: Co-I

DOE WO#M610000767 Marshall (PI) 03/31/11-08/07/11

The aim of this project was to examine energy usage as it relates to smart-grid deployment.

Role: Co-PI

NSF EAPSI-0913094 Gaalema (PI) 06/01/09-09/30/09

The aim of this project was to analyze time allocation of behavior on concurrent variable interval schedules.

Role: PI

Selected Submitted/Unfunded Grant Submissions

R01 NIH/NHLBI Rollman (PI) Submitted: 11/5/21

Telehealth-Enabled and Social Determinant-Informed Collaborative Care to Promote Adherence with a Home-Based Cardiac Rehabilitation Program for Patients Living with Heart Failure

Role: Consultant

K01 NIH/NIDA Pericot-Valverde Submitted 6/21/21

E-cigarettes as an Aid to Smoking Cessation in those with Opioid-use Disorder.

Role: Co-mentor

R01 HL137111 Gaalema (PI) Submitted: 6/20/16 Score 40 (31%)

Improving Adherence to Secondary Prevention Guidelines Among Medicaid Cardiac Patients

The goal of this project is to assess the efficacy of an incentive-based intervention to increase secondary-prevention in low-socioeconomic status cardiac patients.

Role: PI

R21 Gaalema (PI) Submitted: 02/13/13 Score: n/a

Experimental Examination of the Effects of Smoking on Breastfeeding

The goal of this application was to identify the effects of experimentally induced smoking abstinence on breastfeeding in recently postpartum smokers.

Role: PI

SCHOLARSHIP

Peer Reviewed Publications

Original Research

1. Hamilton, PS, **Gaalema, DE**, Laage, SL and Sullivan, BK. (2005). A photographic method for quantifying color characteristics and color patch dimensions in lizards. *Herpetological Review*, 36(4), 402-406.
2. Rutowski, RL, Macedonia, JM, Merry, JW, Morehouse, N, Yturralde, K, Taylor-Taft, L, **Gaalema, DE**, Kemp, DJ, and Papke, RS. (2007). Iridescent ultraviolet signal in the Orange Sulphur butterfly (*Colias eurytheme*): Spatial, temporal, and spectral properties. *Biological Journal of the Linnean Society*, 90, 349–364.
3. **Gaalema, DE** and Benboe, D. (2008). Positive reinforcement training of Aldabra tortoises (*Geochelone gigantea*) to facilitate husbandry procedures at Zoo Atlanta. *Herpetological Review*, 39 (3), 331-334.
4. Hamilton, PS, **Gaalema, DE** and Sullivan, BK. (2008). Short-term changes in dorsal reflectance for background matching in Ornate Tree Lizards (*Urosaurus ornatus*) *Amphibia-Reptilia*, 29, 473-477
5. Perdue, BM, **Gaalema, DE**, Martin, AL, Dampier, SM and Maple, TL. (2010). Factors affecting aggression in a captive flock of Chilean flamingos (*Phoenicopterus chilensis*). *Zoo Biology*, 29, 1-6. PMID: 20186725

6. **Gaalema, DE**, Perdue, BM, and Kelling, AS. (2011). Food preference, keeper ratings, and reinforcer effectiveness in exotic animals: the value of systematic testing. *Journal of Applied Animal Welfare Science*, 14, 33-41. PMID: 21191846
7. **Gaalema, DE**. (2011). Visual discrimination and reversal learning in monitor lizards (*Varanus spp.*). *Journal of Comparative Psychology*, 125(2), 246-249. PMID: 21604857
8. Clay, AW, Perdue, BM, **Gaalema, DE**, Dolins, FL, and Bloomsmith, MA. (2011). The use of technology to enhance zoological parks. *Zoo Biology*, 30, 487-497. PMID: 20954253
9. Kelling, AS and **Gaalema, DE** (2011) Post-occupancy evaluations in zoological settings. *Zoo Biology*, 30, 597-610. PMID: 21608023
10. **Gaalema, DE**, Higgins, ST, Bradstreet, M, Heil, SH, Bernstein, I. (2011) Using NicAlert strips to validate smoking status among pregnant cigarette smokers. *Drug and Alcohol Dependence*, 119, 130-133. PMCID: PMC3205243
11. Perdue, BM, Clay, AW, Stoinski, TS, **Gaalema, DE**, and Maple, TL. (2012). Technology at the zoo: the influence of a touchscreen computer on orangutans and zoo visitors. *Zoo Biology*, 31, 27-39. PMID: 21319214
12. Kelling, N.J., **Gaalema, D.E.**, & Kelling, A.S. (2012). Elephant in the Break Room: The use of modified operational sequence diagrams for the determination of zoo exhibit inefficiencies. Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting. Boston, MA: Human Factors and Ergonomics Society.
13. Heil, S.H., **Gaalema, D.E.**, Johnston, A.M., Sigmon, S.C., Badger, G.J., & Higgins, S.T. (2012). Infant pupillary response to methadone administration during treatment for neonatal abstinence syndrome: A feasibility study. *Drug and Alcohol Dependence*, 126, 268-271 PMCID: PMC3467317
14. Ades, PA and **Gaalema, DE** (2012). Coronary heart disease as a case study in prevention: Potential role of incentives. *Preventive Medicine*, 55, S75-79. PMID: 22285317
15. **Gaalema, DE**, Scott, TL, Heil, SH, Coyle, MG, Kaltenbach, K, Badger, GJ, Arria, A, Stine, SM, Martin, PR, Jones, HE. (2012). Differences in the profile of neonatal abstinence syndrome signs in methadone- vs. buprenorphine-exposed infants. *Addiction*, 107, S53-62. PMCID: PMC4165073
16. Higgins, ST, Washio, Y, Heil, SH, Solomon, LJ, **Gaalema, DE**, Higgins, TM, Bernstein, IM. (2012). Financial incentives for smoking cessation among pregnant and newly postpartum women. *Preventive Medicine*, 55, S33-40. PMCID: PMC3399924
17. Heil, SH, **Gaalema, DE**, Herrmann, E. (2012). Incentives to promote family planning. *Preventive Medicine*, 55, S106-112. PMCID: PMC3578697
18. **Gaalema, DE**. (2013). Sexual conditioning in the dyeing dart frog. *International Journal*

of Comparative Psychology, 26, 5-18.

19. **Gaalema, DE**, Heil, SH, Badger, GS, Metayer, JS, Johnston, AM. (2013). Time to Initiation of Treatment for Neonatal Abstinence Syndrome in Neonates exposed in utero to Buprenorphine or Methadone. *Drug and Alcohol Dependence*, 133(1), 266-269. PMID: 23845658
20. **Gaalema, DE**, Higgins, ST, Pepin, C, Heil, SH, Bernstein, IM. (2013). Illicit drug use among pregnant women enrolled in treatment for cigarette smoking. *Nicotine & Tobacco Research*, 15(5), 987-991. PMCID: PMC3621582
21. Kelling, NJ, **Gaalema, DE**, Kelling, AS. (2014). A Modified Operational Sequence Methodology for Zoo Exhibit Design and Renovation: Conceptualizing Animals, Staff and Visitors as Interdependent Coworkers. *Zoo Biology*. 33(4), 336–348. PMID: 24838689
22. **Gaalema, DE**, Higgins, ST, Shepard, DS, Suaya, JA, Savage, PD, Ades, PA. (2014). State by State Variations in Cardiac Rehabilitation Participation are Associated with Educational Attainment, Income, and Program Availability. *Journal of Cardiopulmonary Rehabilitation and Prevention*. 34(4), 248-54. PMID: 24820451
23. Krupa, JS, Rizzo, DM, Eppstein, MJ, Lanute, DB, **Gaalema, DE**, Lakkaraju, K, Warrender, CE. (2014). Plug-in hybrid electric vehicles (PHEVs); Analysis of a consumer survey on plug-in hybrid electric vehicles. *Transportation Research Part A: Policy and Practice*, 64, 14–31.
24. Higgins, ST, Kurti, AN, Redner, R, White, TJ, **Gaalema, DE**, Roberts, ME, Doogan, NJ, Tidey, JW, Miller, ME, Stanton, CA, Henningfield, JE. (2015). A Literature Review on Prevalence of Gender Differences and Intersections with Other Vulnerabilities to Tobacco Use in the United States, 2004-2014. *Preventive Medicine*, 80, 89-100.
25. **Gaalema, D. E.**, Cutler, A. Y., Higgins, S. T., & Ades, P. A. (2015). Smoking and cardiac rehabilitation participation: Associations with referral, attendance and adherence. *Preventive Medicine*, 80, 67-74.
26. **Gaalema, D. E.**, Miller, M. E., & Tidey, J. W. (2015). Predicted Impact of Nicotine Reduction on Smokers with Affective Disorders. *Tobacco Regulatory Science*, 1(2), 154-165.
27. **Gaalema, DE**, Savage, P, Rengo, J, Cutler, A, Elliott, R, Priest, J, Ades, PA, Higgins, ST. Patient Characteristics Predictive of Cardiac Rehabilitation Adherence. (2016). *Journal of Cardiopulmonary Rehabilitation*. doi: 10.1097/HCR.0000000000000225
28. Stanton, C.A., Keith, D.R., **Gaalema, D.E.**, Bunn, J.B., Doogan, N.J., Redner, R., Kurti, A.N. Roberts, M.E., Higgins S.T. (2016). Trends in tobacco use among US adults with chronic health conditions: National Survey on Drug Use and Health 2005-2013. *Preventive Medicine*, 92, 160-168.
29. Roberts, M.E., Doogan, N.J., Stanton, C.A., **Gaalema, D.E.**, Kurti, A.N., Redner, R.,

- White, T.J., Higgins, S.T. (2016). Rural Tobacco Use across the United States: How rural and urban areas differ, broken down by census regions and divisions. *Health and Place*, 39, 153-159.
30. James, TA, Kreiger, L, Zia, A, **Gaalema, D**, Jones, CA (2016). A Practical Framework for Incentive-Based Cancer Prevention. *Population Health Management*, 19, 377-379.
31. Higgins S.T., Kurti, A.N., Redner, R., White, TJ, Keith, D.R., **Gaalema, D.E.**, Stanton, C.A., Roberts, M.E., Doogan, NJ, Priest, JF. (2016) Co-Occurring Risk Factors for Current Cigarette Smoking in a U.S. Nationally Representative Sample. *Preventive Medicine*, 92, 110-117.
32. **Gaalema, DE**, Savage, P, Rengo, J, Cutler, AY, Ades, PA, Higgins, ST. (2016). Financial Incentives to Promote Cardiac Rehabilitation Participation and Adherence among Medicaid Patients. *Preventive Medicine*, 92, 47-50.
33. **Gaalema, DE**, Elliott, R, Morford ZH, Ades, PA, Higgins, ST. Effect of Socioeconomic Status on Propensity to Change Risk Behaviors Following Myocardial Infarction: Implications for Healthy Lifestyle Medicine. (2017). *Progress in Cardiovascular Disease*. 10.1016/j.pcad.2017.01.001
34. Higgins ST, Heil SH, Sigmon SC, Tidey JW, **Gaalema DE**, Stitzer ML, Durand H, Bunn JY, Priest JS, Arger CA, Miller ME, Bergeria CL, Davis DR, Streck JM, Zvorsky I, Redner R, Vandrey R, Pacek LR. (2017). Response to Varying the Nicotine Content of Cigarettes in Vulnerable Populations: An Initial Experimental Examination of Acute Effects. *Psychopharmacology*, 234, 89-98
35. Keith, D. R., Stanton, C. A., **Gaalema, D. E.**, Bunn, J. Y., Doogan, N. J., Redner, R., ... & Roberts, M. E. (2017). Disparities in US Healthcare Provider Screening and Advice for Cessation Across Chronic Medical Conditions and Tobacco Products. *Journal of General Internal Medicine*, 32(9), 974-980.
36. Doogan NJ, Roberts ME, Wewers ME, Stanton CA, Keith DR, **Gaalema DE**, Kurti AN, Redner R, Cepeda-Benito A, Bunn JY, Lopez AA, Higgins ST. (2017). A growing geographic disparity: Rural and urban cigarette smoking trends in the United States. *Preventive Medicine*, 104, 79-85.
37. Pericot-Valverde, I., **Gaalema, D. E.**, Priest, J. S., & Higgins, S. T. (2017). E-cigarette awareness, perceived harmfulness, and ever use among US adults. *Preventive Medicine*, 104, 92-99.
38. Arger, C.A., Heil, S.H., Sigmon, S.C., Tidey, J.W., Stitzer, M.L., **Gaalema, D.E.**, Durand, H.J., Bunn, J.Y., Ruggieri, E.K., & Higgins, S.T. (2017). Preliminary validity of the modified Cigarette Evaluation Questionnaire in predicting the reinforcing effects of cigarettes that vary in nicotine content. *Experimental and Clinical Psychopharmacology*, 25(6), 473-478.
39. Roberts, M.E., Doogan, N.J., Stanton, C.A., Quisenberry, A.J., Villanti, A., **Gaalema, D.E.**, Keith, D.R., Kurti, A.N., Lopez, A.A., Redner, R., Cepeda-Benito, A. & Higgins,

- S.T. (2017). Rural vs. Urban Use of Traditional and Emerging Tobacco Products in the United States, 2013-2014. *American Journal of Public Health*.
40. Higgins, S. T., Heil, S. H., Sigmon, S. C., Tidey, J. W., **Gaalema, D. E.**, Hughes, J. R., ... & Arger, C. A. (2017). Addiction Potential of Cigarettes With Reduced Nicotine Content in Populations With Psychiatric Disorders and Other Vulnerabilities to Tobacco Addiction. *JAMA Psychiatry*, *74*(10), 1056-1064.
41. Kurti, A. N., Redner, R., Lopez, A. A., Keith, D. R., Villanti, A. C., Stanton, C. A., **Gaalema, D.E.**, Bunn, J.Y., Doogan, N.J., Cepeda-Benito, A. & Roberts, M. E. (2017). Tobacco and nicotine delivery product use in a national sample of pregnant women. *Preventive Medicine*, *104*, 50-56.
42. Riley, H., Headley, S., Winter, C., Mazur, S., **Gaalema, D. E.**, Goff, S., ... & Pack, Q. R. (2017). Effect of Smoking Status on Exercise Perception and Intentions for Cardiac Rehabilitation Enrollment Among Patients Hospitalized With an Acute Cardiac Condition. *Journal of Cardiopulmonary Rehabilitation and Prevention*. DOI: 10.1097/HCR.0000000000000288
43. Ades, PA and **Gaalema, DE**. (2018). Geographic Variations in Cardiac Rehabilitation Use: Regional Variations in Medical Care or in Patient Behaviors? *Circulation*, *137*, 1909-1911.
44. Cepeda-Benito, A, Doogan, NJ, Redner R, Robert ME, Kurti AN, Villanti AC, Lopez AA, Quisenberry AJ, Stanton CA, **Gaalema DE**, Keith DR, Parker MA, Higgins ST. (2018). Trend differences in men and women in rural and urban U.S. settings. *Preventive Medicine*. doi.org/10.1016/j.ypmed.2018.04.008
45. Lopez, A.A., Redner, R., Kurti, A.N., Keith, D.R., Villanti, A.C., Stanton, C.A., **Gaalema, D.E.**, Bunn, J.Y., Doogan, N.J., Cepeda-Benito, A. and Roberts, M.E., (2018). Tobacco and nicotine delivery product use in a US national sample of women of reproductive age. *Preventive Medicine*. doi.org/10.1016/j.ypmed.2018.03.001
46. Pericot-Valverde, I., Elliott, R. J., Miller, M., & Tidey, J., & **Gaalema, D.E.** (2018). Posttraumatic stress disorder and tobacco use: A systematic review and meta-analysis. *Addictive Behaviors*, *84*, 238-247.
47. Miller ME, Tidey, JW, Bunn, JY, **Gaalema, DE**, Scott-Sheldon, LA, Pericot-Valverde, I, Japuntich, SJ (2018). Self-perceived Mental Health and Population-level Tobacco Use Disparities. *Tobacco Regulatory Science*, *4*, 3-11.
48. **Gaalema DE**, Pericot-Valverde, I., Bunn JY, Villanti AC, Cepeda-Benito, A, Doogan, NJ, Keith DR, Kurti AN, Lopez AA, Nighbor T, Parker MA, Quisenberry AJ, Redner R, Robert ME, Stanton CA, Ades PA, Higgins ST. (2018). Tobacco Use in Cardiac Patients: Perceptions, Use, and Changes after a Recent Myocardial Infarction among US Adults in the PATH Study (2013-2015). *Preventive Medicine*. doi: 10.1016/j.ypmed.2018.05.004
49. Villanti, A., **Gaalema, D. E.**, Tidey, J. W., Kurti, A. N., Sigmon, S. C., Higgins, S. T. (2018). Co-occurring vulnerabilities and menthol use in U.S. young adult cigarette

smokers: Findings from Wave 1 of the PATH Study, 2013-2014. *Preventive Medicine*. doi.org/10.1016/j.ypmed.2018.06.001

50. Tidey, JW, Davis, D, Miller ME, Pericot-Valverde, I, Denlinger-Apte, RL, **Gaalema, DE** (2018). Modeling nicotine regulation: A review of studies in smokers with mental health conditions. *Preventive Medicine*. doi.org/10.1016/j.ypmed.2018.07.003
51. Higgins, S. T., Bergeria, C. L., Davis, D. R., Streck, J. M., Villanti, A. C., Hughes, J. R., Sigmon, S. C., Tidey, J. W., Heil, S. H., **Gaalema, D. E.**, Stitzer, M. L., Priest, J. S., Skelly, J. M., Reed, D. D., Bunn, J., Y., Tromblee, M. A., Arger, C. A., Miller, M. E. (2018). Response to reduced nicotine content cigarettes among smokers differing in tobacco dependence severity. *Preventive Medicine*. doi.org/10.1016/j.ypmed.2018.04.010
52. Riley, H, Headley, S, Lindenauer, PK, Goff, S, Szalai, H, **Gaalema, DE**, Pack, QR. (in Press). Patient Perception of How Smoking Status Influences Cardiac Rehabilitation Attendance after an Acute Cardiac Hospitalization. *Journal of Cardiopulmonary Rehabilitation*.
53. **Gaalema DE**, Savage PD, Leadholm K, Rengo J, Naud S, Priest JS, Ades PA. (in Press). Clinical and Demographic Trends in Cardiac Rehabilitation: 1996-2015. *Journal of Cardiopulmonary Rehabilitation and Prevention*.
54. Kurti AN, Bunn JY, Villanti AC, Stanton CA, Redner R, Lopez AA, **Gaalema DE**, Doogan NJ, Cepeda-Benito A, Roberts ME, Phillips JK. (2018). Patterns of single and multiple tobacco product use among us women of reproductive age. *Nicotine and Tobacco Research*. 14;20:S71-80.
55. Miller, M. E., Tidey, J. W., Bunn, J. Y., **Gaalema, D. E.**, Scott-Sheldon, L. A., Pericot-Valverde, I., & Japuntich, S. J. (2018). Self-perceived Mental Health and Population-level Tobacco Use Disparities. *Tobacco Regulatory Science*, 4(4), 3-11.
56. Kurti, AN, Redner R, Bunn JY, Tang K, Nighbor T, Lopez AA, Keith DR, Villanti AC, Stanton CA **Gaalema DE**, Doogan NJ, Cepeda-Benito A, Roberts ME, Phillips J, Parker MA, Quisenberry AJ, Higgins ST (2018). Examining the relationship between pregnancy and quitting use of tobacco products in a U.S. national sample of women of reproductive age. *Preventive Medicine*.
57. Parker, MA, Villanti AC, Quisenberry AJ, Stanton CA, Doogan NJ, Redner R, **Gaalema DE**, Kurti AN, Nighbor T, Roberts ME, Cepeda-Benito A, and Higgins ST. (2018). Tobacco Product Harm Perceptions and New Use. *Pediatrics*.
58. **Gaalema DE**, Leventhal, AM, Priest JS, Higgins ST. (2018). Understanding Individual Differences in Vulnerability to Cigarette Smoking is Enhanced by Attention to the Intersection of Common Risk Factors. *Preventive Medicine*, 117:38-42.
59. Parker, MA, Streck JM, Bergeria, CL, Bunn, JY, **Gaalema DE**, Davis, DR, Barrows, AJ, Sigmon, SC, Tidey, JW, Heil SH, and Higgins ST. (2018). Reduced Nicotine Content Cigarettes and Cannabis Use in Vulnerable Populations. *Tobacco Regulatory Science*, 4(5), 84-91.

60. Nighbor TD, Doogan NJ, Roberts ME, Cepeda-Benito A, Kurti AN, Priest JS, Johnson, HK, Lopez AA, Stanton CA., **Gaalema DE**, Redner R, Parker MA, Keith DR, Quisenberry, AJ, Higgins, ST (2018). Smoking prevalence and trends among a U.S. national sample of women of reproductive age in rural versus urban settings. *PLoS ONE* 13(11): e0207818.
61. Bergeria, C. L., Heil, S. H., Davis, D. R., Streck, J. M., Sigmon, S. C., Bunn, J. Y., Tidey, J. W., Arger, C. A., Reed, D. D., Gallagher, T., Hughes, J. R., **Gaalema, D. E.**, Stitzer, M. L., & Higgins, S. T. (2019). Evaluating the utility of the modified cigarette evaluation questionnaire and Cigarette Purchase Task for predicting acute relative reinforcing efficacy of cigarettes varying in nicotine content. *Drug and Alcohol Dependence*. 197, 56-64.
62. Davis, DR, Miller, ME, Streck, JM, Bergeria, CL, Sigmon, SC, Tidey, JW, Heil, SH, **Gaalema, DE**, Villanti, AC, Stitzer, ML, Priest, JS, Bunn, JY, Skelly, JM, Diaz, V, Arger, CA, Higgins, ST (2019). Response to reduced nicotine content in vulnerable populations: Effect of menthol status. *Tob Regul Sci*. 5(2):135-142.
63. Riley, H, Headley, S, Lindenauer, PK, Goff, S, Szalai, H, **Gaalema, DE**, Pack, QR. (2019). Patient Perception of How Smoking Status Influences Cardiac Rehabilitation Attendance after an Acute Cardiac Hospitalization. *Journal of Cardiopulmonary Rehabilitation*, 39(3):181-186.
64. González-Roz, A., **Gaalema, D.E.**, Pericot-Valverde, I., Elliott, R.J., Ades, P.A. A Systematic Review on the Diagnostic Accuracy of Depression Questionnaires for Cardiac Populations: Implications for Cardiac Rehabilitation. (2019). *Journal of Cardiopulmonary Rehabilitation and Prevention*.
65. **Gaalema DE**, Savage PD, Leadholm K, Rengo J, Naud S, Priest JS, Ades PA. (2019). Clinical and Demographic Trends in Cardiac Rehabilitation: 1996-2015. *Journal of Cardiopulmonary Rehabilitation and Prevention*.
66. **Gaalema, DE**, Elliott, RJ, Savage, PD, Rengo, JL, Cutler, AY, Pericot-Valverde, I, Priest JS, Shepard DS, Higgins ST, & Ades, PA (2019). Financial incentives to increase cardiac rehabilitation participation among low-socioeconomic status patients: a randomized clinical trial. *JACC-HF*, 7(7), 537-546.
67. Pericot-Valverde, I, Priest, JS, Wagener, TL, **Gaalema, DE**. (2019). Examination of a Mouthpiece-Based Topography Device for Assessing Relative Reinforcing Effects of E-Cigarettes: A Preliminary Study. *Experimental and Clinical Psychopharmacology*
68. Streck JM, Bergeria, CL, Parker, MA, Davis, DR, DeSarno, M., Gaalema, DE, Hughes, JR, Heil, SH, Stitzer, ML, Sigmon, SC, Heil SH, Tidey, JW, Rothman, M., and Higgins ST. (2019). Response to reduced nicotine content cigarettes among smokers with chronic health conditions. *Preventive Medicine Reports*.
69. Streck, J.M., Davis, D.R., Pang, R., Sigmon, S.C., Bunn, J.Y., Bergeria, C.L., Heil, S.H., Tidey, J.W., **Gaalema, D.E.**, Hughes, J.R., Stitzer, M.L., Reed, E., & Higgins, S.T.

- (2019). Potential moderating effects of sex/gender on the acute relative reinforcing and subjective effects of reduced nicotine content cigarettes in vulnerable populations. *Nicotine and Tobacco Research*.
70. Pericot-Valverde, I., Elliott, RJ, Priest, JS, Barret, T, Yoon, JH, Miller, CC, Okoli, CT, Haliwa, I, Ades, PA, **Gaalema, DE**. (2019). Patterns of Tobacco Use Prior to Hospitalization for an Acute Cardiac Event: Use of Combusted and Non-Combusted Products. *Preventive Medicine*.
71. Tidey JW, Muscat J, Foulds J, Evins AE, **Gaalema DE**, Denlinger-Apte RL (2019). Reducing the nicotine content of cigarettes: Effects in smokers with mental health conditions and socioeconomic disadvantages. *Nicotine & Tobacco Research*.
72. **Gaalema DE**, Tidey, JW, Davis DR, Sigmon SC, Heil SH, Stitzer ML, DeSarno MJ, Diaz V, Hughes JR, Higgins ST (2019). Potential Moderating Effects of Psychiatric Diagnosis and Symptom Severity on Subjective and Behavioral Responses to Reduced Nicotine Content Cigarettes. *Nicotine & Tobacco Research*
73. Davis, DR, Parker, M.A, Villanti, AC, Streck, JM, Priest, JS, Tidey, JW, **Gaalema, DE**, Sigmon, SC, Heil, SH, & Higgins, ST (2019). Examining Age as a Potential Moderator of Response to Reduced Nicotine Content Cigarettes in Vulnerable Populations. *Nicotine & Tobacco Research*.
74. Davis, D.R., DeSarno, M.J., Bergeria, C.L., Streck, J.M., Tidey, J.W., Sigmon, S.C., Heil, S.H., **Gaalema, D.E.**, Stitzer, M.L., & Higgins, S.T. (2019). Examining Effects of Unit Price on Preference for Reduced Nicotine Content Cigarettes and Smoking Rate. *Preventive Medicine*.
75. Mehra, VM, **Gaalema, DE**, Pakosh, M, Grace, SL. (2019). Systematic Review of Cardiac Rehabilitation Guidelines: Quality and Scope. *European Journal of Preventive Cardiology*.
76. Coleman, S. R., **Gaalema, D. E.**, Nighbor, T. D., Kurti, A. A., Bunn, J. Y., & Higgins, S. T. (2019). Current cigarette smoking among US college graduates. *Preventive Medicine*, 128.
77. **Gaalema, DE**, Dube, S, Potter, A, Elliott, RJ, Mahoney, K, Sigmon, SC, Higgins, ST, Ades, PA. (2019). The effect of executive function on adherence with a cardiac secondary prevention program and its interaction with an incentive-based intervention. *Preventive Medicine*, 128.
78. Pericot-Valverde, I., Yoon, JH., **Gaalema, DE**. (2020). Single- and Cross-Commodity Delay Discounting of Money and E-cigarette Liquid in Experienced E-Cigarette Users. *Drug and Alcohol Dependence*, 206.
79. Kurti AN, Bunn JY, Tang K, Nighbor T, **Gaalema DE**, Coleman-Cowger V, Coleman SR, Higgins ST. (2020). Impact of Electronic Nicotine Delivery Systems and Other Respondent Characteristics on Tobacco Use Transitions among a U.S. National Sample of Women of Reproductive Age. *Drug and Alcohol Dependence*

80. Streck, J.M., Sigmon, S.C., Priest, J., Bergeria, C.L., Davis, D.R., Hughes, J.R., Villanti, A.C., Tidey, J.W., Heil, S.H., **Gaalema, D.E.**, Stitzer, M.L., & Higgins, S.T. (2020). Investigating tobacco withdrawal in response to reduced nicotine cigarettes among smokers with opioid use disorder and other vulnerabilities. *Experimental and Clinical Psychopharmacology*
81. Dube, S. L., Sigmon, S., Althoff, R., Dittus, K., **Gaalema, D. E.**, Ogden, D. E., Phillips, J., Ades, P., Potter, A. S. (2020). Association of self-reported executive function and mood with executive function task performance across adult populations. *Applied Neuropsychology: Adult*.
82. Higgins, ST, DeSarno, M, Davis, DR, Nighbor, T, Streck, JM, Adise, S, Harfmann,, R, Nesheim-Case, R, Markesich, C, Reed, D, Tyndale, RF, **Gaalema, DE**, Heil, SH, Sigmon, SC, Tidey, JW, Villanti, AC, Lee, D, Hughes JR, Bunn, JY. (2020). Relating individual differences in nicotine dependence severity to underpinning motivational and pharmacological processes among smokers from vulnerable populations. *Preventive Medicine*.
83. Higgins ST, Tidey JW, Sigmon SC, Heil SH, **Gaalema DE**, Lee D, Hughes JR, Villanti AC, Bunn JY, Davis DR, Bergeria CL. Changes in Cigarette Consumption With Reduced Nicotine Content Cigarettes Among Smokers With Psychiatric Conditions or Socioeconomic Disadvantage: 3 Randomized Clinical Trials. (2020). *JAMA Network Open*. 3(10):e2019311.
84. **Gaalema, DE**, Bolívar, HA, Khadanga, S, Priest, JS, Higgins, ST, Ades, PA. Current Smoking as a Marker of a High-Risk Behavioral Profile after Myocardial Infarction. (2020). *Preventive Medicine*.
85. Fleg, JL, Keteyian, SJ, Peterson, PN, Benzo, R., Finkelstein, J, Forman, DE, **Gaalema, DE**, Cooper, LS, Punturieri, A., Joseph, L., Shero, S, Zieman, S. (2020). Increasing Use of Cardiac and Pulmonary Rehabilitation in Traditional and Community Settings: Opportunities to Reduce Health Care Disparities. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 40, 350-355.
86. Bolívar, HA, Elliott, RJ, Middleton, W, Yoon, JH, Okoli, CTC, Haliwa, I, Miller, III, CC, Ades, PA, & **Gaalema, DE**. (2021). Social smoking environment and associations with cardiac rehabilitation attendance. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 41, 46-51.
87. Khadanga S, Savage PD, **Gaalema DE**, Ades PA. Predictors of Cardiac Rehabilitation Participation: Opportunities to Increase Enrollment (2021). *Journal of Cardiopulmonary Rehabilitation and Prevention*.
88. Pericot-Valverde, I, Heo, M, Litwin, AH, Niu, J, **Gaalema, DE**. Modeling the Effect of Stress on Vaping Behavior among Young Adults: A Randomized Cross-Over Pilot Study (2021). *Drug and Alcohol Dependence*.
89. Khadanga, S, **Gaalema, DE**, Savage, P, Ades, PA (2021). Under-utilization of Cardiac

Rehabilitation in Women: Barriers and Solutions. *Journal of Cardiopulmonary Rehabilitation and Prevention*.

90. Shero S, Benzo R, Cooper LS, Fleg JL, Finkelstein J, Forman DE, **Gaalema DE**, Joseph L, Keteyian SJ, Peterson PN, Punturieri A, Zieman S. (2021). Update on RFA Increasing Use of Cardiac and Pulmonary Rehabilitation in Traditional and Community Settings NIH-Funded Trials: Addressing Clinical Trial Challenges Presented by the COVID-19 Pandemic. *Journal of Cardiopulmonary Rehabilitation and Prevention*.
91. Melbostad HS, Savage PD, Mahoney K, **Gaalema DE**, Ades PA, Shepard DS. (2021). Financial impact of COVID-19 on phase 2 cardiac rehabilitation service delivery. *Journal of Cardiopulmonary Rehabilitation and Prevention*.
92. **Gaalema DE**, Mahoney K, Ballon J. (2021). Cognition and Exercise: General Overview and Implications for Cardiac Rehabilitation. *Journal of Cardiopulmonary Rehabilitation and Prevention*.
93. **Gaalema, DE**, O'Neill, S, Savage, P, Bolívar, HA, Denkmann, D, Khadanga, S, Ades, PA. (2021). The Association of Patient Educational Attainment with Cardiac Rehabilitation Adherence and Benefits of Cardiac Rehabilitation. *Journal of Cardiopulmonary Rehabilitation and Prevention*.
94. Oliver, AC, DeSarno, M, Irvin, CG, Kaminsky, D, Tidey, JW, Sigmon, SC, Heil, SH, **Gaalema, DE**, Lee, D, Bunn, JY, Davis, DR, Streck, JM, Gallagher, T, Higgins, ST. (2021). Effects of Reduced Nicotine Content Cigarettes on Fractional Exhaled Nitric Oxide (FeNO) and Self-Reported Respiratory Health Outcomes among Smokers with Psychiatric Conditions or Socioeconomic Disadvantage. *Nicotine and Tobacco Research*.
95. Higgins, ST, DeSarno, M, Bunn, JY, **Gaalema, DE**, Leventhal, AM, Davis, DR, Streck, JM, Harfmann, RF, Markesich, C, Orr, E, Sigmon, SC, Heil, SH, Tidey, JW, Lee, D, Hughes, JR. (2021). Cumulative Vulnerabilities as a Potential Moderator of Response to Reduced Nicotine Content Cigarettes. *Preventive Medicine*.
96. Harder, VS, Villanti, AC, Heil, SH, Smith, ML, **Gaalema, DE**, Meyer, MC, Schafrick, NH, Sigmon, SC. (2021). Opioid Use Disorder Treatment in Rural Settings: The Primary Care Perspective. *Preventive Medicine*.
97. Middleton, WA, Savage, PD, Khadanga, S, Rengo, JL, Ades, PA, **Gaalema, DE**. (2021). Benchmarking Depressive Symptoms in Cardiac Rehabilitation. *Journal of Cardiopulmonary Rehabilitation and Prevention*
98. Nahhas GJ et al. Smokeless tobacco use and prevalence of cardiovascular disease among males in the Population Assessment of Tobacco and Health (PATH) Study, waves 1–4. Accepted. *Preventive Medicine Reports*.

In Review

1. Gaalema DE, Yant B, Khadanga S, Savage P, Rengo J, Ades PA. Carbon Monoxide Monitoring to Objectively Measure Smoking Status in Cardiac Rehabilitation. Resubmitted to *Health Psychology* on 12/22/21.
2. Ades, PA, Khadanga, S, Savage, PD, Gaalema, DE. Enhancing Participation in Cardiac Rehabilitation: Focus on Underserved Populations. Submitted to *Progress in Cardiovascular Diseases* on 10/25/21.
3. Wiley et al., The Impact of the Covid-19 Pandemic on Smoking Among Vulnerable Populations. Submitted to *Nicotine and Tobacco Research*.
4. Snell et al., Predictors of Adherence among Vulnerable Populations of Adults Assigned to Smoke Very Low Nicotine Content Cigarettes. Submitted to *Nicotine and Tobacco Research*

In Preparation

1. Gaalema, et al. Effects of Nicotine Dose in Cigarettes on Use of other Substances. In preparation for *Preventive Medicine*.

Non-Peer Reviewed Publications

Books and Chapters

1. **Gaalema, DE**, Lopez, AA, Higgins, ST. (2013). Incentive-based interventions: Historical context and new directions. In: *Social Neuroscience and Public Health: Foundations for the Science of Chronic Disease Prevention* (PA Hall, Ed.). Springer.
2. Lopez, AA, **Gaalema, DE**, Higgins, ST. (2013). Maternal smoking and inadequate breastfeeding. In *Dietary and Nutritional Aspects of Human Breastmilk*.
3. **Gaalema, DE** (2020). Behavior Modification for Risk Factor Reduction. In: *Cardiac Rehabilitation and Secondary Prevention Programs, Sixth Edition*. Human Kinetics, Inc.

Other Scholarly Publications

1. Strain, E. C., & **Gaalema, D.** (2016). Strain Interview (11/17/15)—Diann Gaalema. *Drug and Alcohol Dependence*, 160, 227.

Abstracts

Gaalema, D. E., Heil, S. H., Metayer, J., & Johnston, A. (2014). Difference in time to treatment in neonates exposed to buprenorphine or methadone in utero. *Drug & Alcohol Dependence*, 140, e65.

Gaalema, D. E., Ades, P., & Higgins, S. T. (2015). Smoking and cardiac rehabilitation participation. *Drug & Alcohol Dependence*, 146, e118.

Arger, C. A., Heil, S. H., Sigmon, S. C., Tidey, J. W., Stitzer, M., **Gaalema, D.**, ... & Higgins, S. T. (2017). Validity of the modified cigarette evaluation questionnaire in predicting the reinforcing effects of cigarettes that vary in nicotine content under double-blind conditions. *Drug and Alcohol Dependence*, 171, e10.

Gaalema, D., Tidey, J. W., Tyndale, R., & Higgins, S. (2017). Nicotine metabolite ratio and associations with smoking topography in a population with affective disorders. *Drug and Alcohol Dependence*, (171), e67-e68.

Morford, Z. H., **Gaalema, D.**, Elliott, R., Ades, P., & Higgins, S. (2017). Ongoing survey of alternative nicotine and tobacco use among cardiac patients. *Drug & Alcohol Dependence*, 171, e149.

Patents Issued or Pending - none

Other Creative Activities - none

Quality Improvement and Patient Safety Activities

- | | |
|-------|---|
| 2021- | Member of the program certification steering committee of ICCPR/ICRR's international cardiac rehabilitation registry <ul style="list-style-type: none"> • Helping to create guidelines and certify programs internationally to provide evidence-based cardiac rehabilitation in low-resource areas |
| 2021 | Contingency Management Provider Training Video <ul style="list-style-type: none"> • Helped create a training video, complete with CME credit |
| 2018 | CDC Cardiac Rehabilitation Quality Initiative <ul style="list-style-type: none"> • Was solicited for and submitted, evidence-based suggestions for improving cardiac rehabilitation attendance for a national level initiative. |
| 2018 | AACVPR Guidelines <ul style="list-style-type: none"> • Wrote a solicited chapter on behavior change for the national guidelines book. |
| 2017 | AACVPR R2R Submission <ul style="list-style-type: none"> • Created a ready to implement template for use by certified cardiac rehabilitation programs to increase patient attendance through the use of incentives. |

SUMMARY OF SCHOLARLY ACTIVITIES

The majority of my effort is dedicated to conducting academic research. I have been consistently funded by NIH throughout my tenure as a faculty member at UVM, having served on NIH and DOE grants. I collaborated on the submission of two large center grants, which were funded (P20, P50). I was also involved in the application for renewal for those center grants, which were also funded (P20, U54). I have also pursued independent funding as seen by my multiple NIH grant submissions, and have achieved independent funding, having received an R01-level (R61/33) grant. My development as a researcher has also been reflected in multiple requests to serve as an ad-hoc member of NIH study sections in both the areas of tobacco use and secondary prevention as well as other researchers requesting me to serve on their grant submissions as co-I, consultant, and co-mentor.

Also reflecting my growing reputation is the requests for my expertise on several scholarly works. I have served on three writing groups organized to harness newly collected longitudinal data on tobacco use to clarify the association of use of non-cigarette tobacco (specifically cigars, e-cigarettes, and non-combusted tobacco such as chew/snuff) on cardiovascular outcomes. I was also asked to serve on a systematic review of cardiac rehabilitation guidelines initiated by the World Health Organization with an aim of informing international practices.

Overall, during my academic career, I have maintained a high level of productivity. I have published 98 peer-reviewed manuscripts. Of these publications, 86 have been published during my time as faculty at UVM, averaging 8.6 publications per year. I have been part of three invited review articles, two as first author. Several of these articles have been in journals with high impact factors such as Journal of the American College of Cardiology – Heart Failure (IF 12.0), Journal of the American Medical Association - Psychiatry (IF 21.6), and Circulation (IF 29.7). The impact of my publications is evident in the fact that they have been cited over 2600 times. Currently I have an h-index of 28 and an i10-index of 53.

INVITED PRESENTATIONS

Regional

2022	“Behavior Change and Secondary Prevention in Vulnerable Populations.” Institute for Healthcare Delivery and Population Science Research Seminar	Springfield, MA
2021	“Secondary Prevention of Heart Disease: A Focus on Socioeconomic Status & Smoking.” Vermont Center on Behavior and Health Lecture Series.	Burlington, VT
2018	“Health-Related Behaviors and Behavioral Economics”. Symposium on Complexity in Human Health and Wellness Behavior	Burlington, VT
2017	“Cardiac Patients and Tobacco Use: Perceptions, Use, and Change in Use after a Major Event”, Vermont Center on Behavior and Health Conference	Burlington, VT
2017	American Heart Association Women’s Go Red - Keynote “Behavior Change after Major Cardiac Events: Struggles and Strategies”	Burlington, VT
2016	Vermont Vascular Medicine Conference “Low-income Patients in Cardiac Rehabilitation: What We've Learned from Increasing Attendance”	Burlington, VT
2015	Vermont Public Radio “In Excess: Why We Do What We Do At The Holidays”	Burlington, VT
2012	Renewable Energy Vermont “Behavioral Economics and Behavior Change”	Burlington, VT

National

2023	ABAI Annual Conference “Use of Contingency Management to Promote Secondary Prevention in Vulnerable Populations”	Denver, CO
2022	AACVPR Educational Series “Practical Strategies to Engender Behavior Change”	Virtual
2021	TAKEheart Education Series	Virtual

2021	“Implementing Effective Care Coordination” AACVPR Annual Conference	Virtual
2020	“Interventions to Improve Health-Related Behaviors in Cardiac Rehabilitation: What’s the Evidence?” AACVPR Annual Conference	Virtual
2019	“Head and Health: How Cognition and Management of Chronic Disease Interact” AACVPR Annual Conference	Portland, Oregon
2018	“Hot Topics in Addiction and Cardiovascular Disease: E-cigarettes” AACVPR Annual Conference	Louisville, KY
2017	“Patient Characteristics and Cardiac Rehabilitation Participation” VCBH Annual Conference	Burlington, VT
2016	“Cardiac Patients and Tobacco Use: Perceptions, Use, and Change in Use after a Cardiac Event” AACVPR Annual Conference	New Orleans, LA
2016	“Depression Screeners in Cardiac Rehab: What Do They Tell Us?” NIH Rehabilitation Conference	Washington, DC
2015	“Medicaid Patients in Cardiac Rehabilitation: Characteristics and Participation.” AACVPR Annual Conference	Washington, DC
2015	“Underserved Populations in Cardiac Rehabilitation” Johns Hopkins University	Baltimore, MD
2011	“Cardiac Rehabilitation: Lessons from Behavioral Pharmacology” Sandia Laboratories	Albuquerque, NM
	“Behavioral Economics and Individual Behavior Change”	

International - none