

Diann E. Gaalema
CURRICULUM VITAE

Position: Associate Professor
Department of Internal Medicine, Division of Cardiovascular Medicine
Associate Director Cardiovascular Research
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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
2023-current	University of Texas- Medical Branch	Associate Professor	Internal Medicine – Division of Cardiovascular Medicine
2019-2023	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
2011	Graduate student of the year, Georgia Institute of Technology, School of Psychology

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

PROFESSIONAL SERVICE

GOVERNMENT

Years	Society	Role
2023	National Institute of Health	Member of Scientific Review Panel ZHL1 CSR-Z (J2) 2
2023	National Institute of Health	Member of Scientific Review Panel ZHL1 CSR-K (O2) 1
2022	National Institute of Health/ Federal Drug Administration	Member of Scientific Review Panel ZRG1 RPHB-P(56) – Co-chair
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

SOCIETY MEMBERSHIPS

Years	Society
2023-current	College on Problems of Drug Dependence, Board of Directors
2022-current	American Association of Cardiovascular and Pulmonary Rehabilitation, Fellow
2021-current	College on Problems of Drug Dependence, Full Member
2017-2022	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
2015-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
2020-2022	College on Problems of Drug Dependence	Member of the Program Committee
2020-current	Million Hearts, CDC	Member of Think Tank and Cardiac Rehabilitation Disparities Working Group
2021-current	International Council of Cardiovascular Prevention and Rehabilitation	Member of the Steering Committee and Subject Matter Expert on Tobacco Use
2022-current	World Heart Federation	Member of Tobacco Expert Group

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
2023	Guest reviewer, Journal of the American Heart Association
2022	Guest reviewer, Addictive Behaviors
2021	Guest reviewer, Mayo Clinic Proceedings
2021, 2022	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

OTHER SERVICE

2023-current DSMB chair, R01, PI Koffarnus
 2022-current DSMB member, R01, PI Pack
 2022-current DSMB member, R01, PI Silverman

RESEARCH AND SCHOLARLY ACTIVITIES

RESEARCH AWARDS AND GRANTS**Ongoing Research Support**

R33 HL143305 Gaalema (PI) 08/01/19-07/31/24
 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

R01 AG084636 Khadanga (PI) 08/15/24-07/31/29
 Optimizing Aerobic Fitness and Functional Response to Exercise in Older Adults
 This project seeks to test the effects of high intensity aerobic and resistance exercise on maximizing functional gains in older adults who are eligible to attend cardiac rehabilitation
 Role: Co-I
 Annual Direct Costs \$480,857

P20 GM103644 Higgins (PI) 08/01/18-07/31/24
 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
 Annual Direct Costs \$1,499,815

U54 DA036114 Higgins (PI) 09/30/18-08/31/24
 Vermont Center on Tobacco Regulatory Science
 This center serves 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: Site-PI

Completed Research Support

UD9RH336330100 Sigmon (PI) 09/1/20-08/31/23
 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

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

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

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. PMID: 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 PMID: 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. PMID: 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. PMID: PMC3399924
 17. Heil, SH, **Gaalema, DE**, Herrmann, E. (2012). Incentives to promote family planning. *Preventive Medicine*, 55, S106-112. PMID: 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. PMID: 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, DE**, Cutler, AY, Higgins, ST, & Ades, PA (2015). Smoking and cardiac rehabilitation participation: Associations with referral, attendance and

- adherence. *Preventive Medicine*, 80, 67-74.
26. **Gaalema, DE**, Miller, ME, & Tidey, JW (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, CA, Keith, DR, **Gaalema, DE**, Bunn, JB, Doogan, NJ, Redner, R, Kurti, AN Roberts, ME, Higgins ST (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.000000000000288
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.jpmed.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*, 117, 61-68.
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*, 117, 76-82.
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*, 117, 43-51.
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*, 117, 30-37.
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*, 117, 15-23.
52. 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.
53. 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.
54. 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*, 117, 52-60.
55. 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*, 142 (6): e20181505.
56. **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.

57. 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.
58. 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.
59. 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. (2018). Response to reduced nicotine content cigarettes among smokers with chronic health conditions. *Preventive Medicine Reports*, 12, 321-329.
60. 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.
61. 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.
62. 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.
63. 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*, 39, 354-364.
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114. Shepard, DS, Zakir, S, **Gaalema, DE**, Ades, PA (2023). Cost-Effectiveness of Cardiac Rehabilitation in Older Adults with Coronary Heart Disease. *Journal of Cardiopulmonary Rehabilitation and Prevention*.
115. Gaffey, AE, Goldstein, CM, Hays, MM, Lee, SY, **Gaalema, DE** (2023). Psychological risk factors in cardiac rehabilitation: Anxiety, depression, social isolation, and anger/hostility. *Journal of Cardiopulmonary Rehabilitation and Prevention. 43(6):E20-E21*.

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118. Gaffey, AE, Goldstein, CM, Hays, MM, Lee, SY, **Gaalema, DE**. (2024). Psychological risk factors in pulmonary rehabilitation: Anxiety, depression, social isolation, and cognitive impairment. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 44(1), E3-E4.
119. Middleton WA, Savage PD, Khadanga S, Rengo JL, Ades PA, **Gaalema DE** (2024). Anxiety Predicts Worse Cardiorespiratory Fitness Outcomes in Cardiac Rehabilitation for Lower Socioeconomic Status Patients. *Journal of Cardiopulmonary Rehabilitation and Prevention*.
120. Harfmann RF, Heil SH, Bunn JY, Snell LM, Tidey JW, Sigmon SC, **Gaalema DE**, Lee DC, Streck JM, Bergeria CL, Davis DR, Plucinski S, Higgins ST (2024). Changes in Weight among Individuals with Psychiatric Conditions or Socioeconomic Disadvantage Assigned to Smoke Very Low Nicotine Content Cigarettes. *Experimental and Clinical Psychopharmacology*.
121. Khadanga, S, Savage, PD, **Gaalema, DE**, Keteyian, S, Yant, B., Ades, PA (2024). Cardiac Rehabilitation: The Gateway for Secondary Prevention. *Heart*.
122. Khadanga, S, Savage, PD, Ades, PA, Yant, B., Anair, B., Kromer, L., **Gaalema, DE** (2024). Lower Socioeconomic Status Patients have Extremely High Risk Factor Profiles on Entry to Cardiac Rehabilitation. *Journal of Cardiopulmonary Rehabilitation and Prevention*.
123. Katz et al. (2024). Cigarette Smoking and Cognitive Task Performance: Experimental Effects of Very-Low-Nicotine-Content Cigarettes. *Experimental and Clinical Psychopharmacology*.
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125. **Gaalema DE**, Khadanga S, Savage, P, Yant B, Katz B, DeSarno M, Ades, PA (2024). Improving Cardiac Rehabilitation Adherence in Patients with Lower-Socioeconomic Status: A Randomized Clinical Trial. *JAMA Internal Medicine*.

126. Klemperer EM, Kock L, Feinstein MJP, Coleman SRM, **Gaalema DE**, Higgins ST (2024). Sex differences in tobacco use, attempts to quit smoking, and cessation among dual users of cigarettes and e-cigarettes: Longitudinal findings from the US Population Assessment of Tobacco and Health Study. *Preventive Medicine*.
127. **Gaalema DE**, Allencherril J, Khadanga S, Klemperer S (2024). Differential Effects of Cigarette Smoking on Cardiovascular Disease in Females: A Narrative Review and Call to Action. *Preventive Medicine*.
128. Dalmau R, Alanazi AM, Arora M, Banerjee A, Bianco E, **Gaalema DE**, Goma FM, Hasegawa K, Komiyama M, Pérez Ríos M, Willett J, Wang Y. A Complex Interplay: Navigating the Crossroads of Tobacco Use, Cardiovascular Disease, and the COVID-19 Pandemic: A WHF Policy Brief. *Global Heart*. 2024; 19(1):55.
DOI: <https://doi.org/10.5334/gh.1334>
129. Higgins et al., Reduced Nicotine Cigarettes and E-Cigarettes in High-Risk Populations: 3 Randomized Clinical Trials (2024). *JAMA Network Open*.
130. **Gaalema DE**, Davis EL, Jneid H. (2024). Younger Women with Myocardial Infarction – Where are the Cracks in the System? *JAHA*.

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.

Quality Improvement and Patient Safety Activities

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| 2023 | Million Hearts/AAVCPR <ul style="list-style-type: none"> • Created a protocol/toolkit for using case management to support CR participation among vulnerable populations. |
| 2022 | Million Hearts/AAVCPR |

- Created a protocol/toolkit for measuring carbon monoxide exposure in those with cardiovascular disease
- Member of the health equity/underserved populations working group
- 2021- Member of the program certification steering committee of ICCPR/ICRR's international cardiac rehabilitation registry
 - Helping to create guidelines and certify programs internationally to provide evidence-based cardiac rehabilitation in low-resource areas
- 2021 Contingency Management Provider Training Video
 - Helped create a training video, complete with CME credit
- 2018 CDC Cardiac Rehabilitation Quality Initiative
 - Was solicited for and submitted, evidence-based suggestions for improving cardiac rehabilitation attendance for a national level initiative.
- 2018 AACVPR Guidelines
 - Wrote a solicited chapter on behavior change for the national guidelines book.
- 2017 AACVPR R2R Submission
 - Created a ready to implement template for use by certified cardiac rehabilitation programs to increase patient attendance through the use of incentives.

INVITED PRESENTATIONS

Regional

- | | | |
|------|---|-----------------|
| 2023 | Smoking in Cardiac and Pulmonary Rehabilitation: Effects on Attendance and Health Gains.” NNEAACVPR Regional meeting. | Portland, ME |
| 2022 | “Smoking, other Health-Related Behaviors, and Outcomes in those with Cardiovascular Disease” Vermont Center for Cardiovascular and Brain Health Annual Conference | Burlington, VT |
| 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	AACVPR Annual Conference “Anxiety in Cardiac and Pulmonary Rehabilitation: Effects on Attendance and Outcomes”	Milwaukee, WI
2023	AACVPR Annual Conference “Case Management in Cardiac Rehabilitation: Supporting Underrepresented Populations”	Milwaukee, WI
2023	Rehabilitation Radio on SiriusXM “Improving Cardiac Rehabilitation among Lower-SES Patients”	Virtual
2022	AACVPR Annual Conference “Smoking in Cardiac and Pulmonary Rehabilitation: Effects on Attendance and Health Gains”	West Palm Beach, FL
2022	AACVPR Educational Series “Practical Strategies to Engender Behavior Change”	Virtual
2021	TAKEheart Education Series “Implementing Effective Care Coordination”	Virtual
2021	AACVPR Annual Conference “Interventions to Improve Health-Related Behaviors in Cardiac Rehabilitation: What’s the Evidence?”	Virtual
2020	AACVPR Annual Conference “Head and Health: How Cognition and Management of Chronic Disease Interact”	Virtual
2019	AACVPR Annual Conference “Hot Topics in Addiction and Cardiovascular Disease: E-cigarettes”	Portland, Oregon
2018	AACVPR Annual Conference “Patient Characteristics and Cardiac Rehabilitation Participation”	Louisville, KY
2017	VCBH Annual Conference “Cardiac Patients and Tobacco Use: Perceptions, Use, and Change in Use after a Cardiac Event”	Burlington, VT
2016	AACVPR Annual Conference “Depression Screeners in Cardiac Rehab: What Do They Tell Us?”	New Orleans, LA
2016	NIH Rehabilitation Conference “Medicaid Patients in Cardiac Rehabilitation: Characteristics and Participation.”	Washington, DC
2015	AACVPR Annual Conference “Underserved Populations in Cardiac Rehabilitation	Washington, DC
2015	Johns Hopkins University “Cardiac Rehabilitation: Lessons from Behavioral Pharmacology”	Baltimore, MD
2011	Sandia Laboratories “Behavioral Economics and Individual Behavior Change”	Albuquerque, NM