

CURRICULUM VITAE

Name: Nathaniel L Baker
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Citizenship and/or Visa Information: USA

Education:

Institution	Years	Degree/Date	Field of Study
Augusta University	1999-2005	B.S. 2005	Mathematics
Medical College of Georgia	2006-2008	M.S. 2008	Biostatistics

Faculty Appointments:

Years	Rank	Institution	Department
2019-Present	Research Assistant Professor	MUSC	Dept. of Public Health Sciences
2012-2019	Research Instructor	MUSC	Dept. of Public Health Sciences
2008-2012	Research Associate	MUSC	Dept. of Biostatistics, Bioinformatics and Epidemiology

Administrative Appointments:

Years	Position	Institution	Department
None			

Other Experience:

Years	Position	Institution	Department
2006-2008	Grad Res Assistant	MCG	Biostatistics
2005-2006	Mathematics Instr.	Heph HS	Mathematics
2005	Lab Assistant	AU	Chemistry and Physics
2002-2005	Lab Assistant	AU	Mathematics and Computer Science

Membership in Professional organizations

2017-2019	American Diabetes Association
2006-2010	American Statistical Association
2006-2013	Southeast SAS Users Group SC Chapter
2004-2005	AU Physics Society
2003-2005	Mathematical Association of America
2000-2005	AU Euclidean Society
<u>Positions Held:</u> President (2004-2005)	

Editorial Positions:

2023-	Statistical Reviewer: Radiology
2018-2021	Statistical Reviewer: JAMA Network Open
2024-	Ad Hoc Reviewer: Biological Psychiatry
2018-2023	Ad Hoc Reviewer: Behavioral Medicine
2016-2023	Ad Hoc Reviewer: Journal of Smoking Cessation

2016-2023 Ad Hoc Reviewer: Drug and Alcohol Dependence
2015-2018 Ad Hoc Reviewer: PLOS ONE
2012-2018 Ad Hoc Reviewer: Journal of Child and Adolescent Substance Abuse
2011-2013 Ad Hoc Reviewer: Frontiers in Applied Genetic Epidemiology (Frontiers)

Major Teaching Responsibilities:

None

Major Clinical Interests and Responsibilities:

None

University/Departmental Committee Membership

2023-Present College of Medicine, Faculty Council Member
2023-2025 College of Medicine, Faculty Council Secretary
2023-Present BIRCWH Scholars, Biostatistics Mentor
2016-2017 Dept. of Public Health Sciences RA/RI Promotion Development Committee
2008-2016 Dept. of Public Health Sciences Social Committee (Chair 2011-2014)
2013 Dept. of Public Health Sciences IYOS Committee

DSMB Membership

2023-2027: Switch or Quit (R01), PI Tracy Smith, Department of Psychiatry
2019-2024: Ketamine/MDD (K12), PI Jennifer Jones, Department of Psychiatry
2017-2022: rTMS for CUD (R21), PI Greg Sahlem, Stanford University
2011-2016: COPE Study (HR # 20279), PI Sudie Back, Department of Psychiatry
2012-2015: SNUS Study (R01CA154992-02), PI Matthew Carpenter, Department of Psychiatry
2014-2018: TIP TOP Study (R01), PI Matthew Carpenter, Department of Psychiatry
2020-2021: Improving Cancer Screening (R61). PI Vanessa Diaz, Department of Family Medicine

Lectures and Presentations:

Contributed Talks, Guest Lectures, and Posters Presented

1. **Nathaniel L Baker**, Erin Martin, Brian Neelon, Michael E Saladin, Viswanathan Ramakrishnan, Aimee L McRae-Clark. *Gender Differences in Reasons for Cannabis Use* (Poster Presentation). Specialized Centers of Research Excellence (SCORE) 2021 Annual Meeting (Virtual), December 2021.
2. **Nathaniel L Baker**, Brian Neelon, Viswanathan Ramakrishnan, Kevin M Gray, Kathleen Brady, Michael E Saladin, Constance Guille, Aimee McRae-Clark. *Sex Differences in Drug Induced Stress and Craving Response to the Trier Social Stress Task*. (Poster Presentation). College on Problems of Drug Dependence 83rd Annual Scientific Meeting (Virtual), June 2021.
3. **Nathaniel L Baker**, Viswanathan Ramakrishnan. *Inclusion of Sex as a Biological Variable in the Research Study Design: Impact on Statistical Power, Sample Size and Analysis*: Workshop. MUSC Department of Psychiatry, February 2021.
4. **Nathaniel L Baker**, Viswanathan Ramakrishnan. *Inclusion of SABV in the Research Study Design: Impact on Statistical Power and Sample Size*. (Recorded Presentation) NIH/ORWS Supplement to SABV and Analysis: Module 3, December 2020.
5. **Nathaniel L Baker**, Aimee McRae-Clark, Brian Neelon, Viswanathan Ramakrishnan, Kevin M Gray, Michael E Saladin, Constance Guille, Kathleen T Brady. *Cortisol and Stress response to the Trier Social Stress Task is attenuated in those with cocaine use disorder as compared to other use disorders* (Poster

- Presentation). Specialized Centers of Research Excellence (SCORE) 2020 Annual Meeting (Virtual), December 2020.
6. **Nathaniel L Baker**, Aimee McRae-Clark, Brian J Sherman, Gregory L Sahlem, Lindsay M Squeglia, Brett E Froeliger, Amanda Wagner, Kevin M Gray. *Varenicline as a treatment for cannabis use disorder: A placebo-controlled pilot trial* (Poster Presentation). The College on Problems of Drug Dependence 82nd Annual Scientific Meeting, Hollywood FL (Virtual), June 2020
 7. **Nathaniel L Baker**. *Role of Data in Public Health*. (Invited Lecture). Presented as a Guest Lecturer. Introduction to Public Health, Department of Public Health Sciences, Medical University of South Carolina, Charleston SC, September 2019
 8. **Nathaniel L Baker**. *Public Health Statistics and Metrics* (Invited Lecture). Presented as a Guest Lecturer. Introduction to Public Health, Department of Public Health Sciences, Medical University of South Carolina, Charleston SC, September 2019
 9. **Nathaniel L Baker**, Kevin M Gray, Viswanathan Ramakrishnan, Rachel L Tomko, Erin A McClure, Matthew J Carpenter, Michael E Saladin. *The influence of ovarian hormones on cigarette smoking behavior in the natural environment*. (Poster Presentation) The College on Problems of Drug Dependence 81st Annual Scientific Meeting, San Antonio, TX, June 2019.
 10. **Nathaniel L Baker**. *Public Health Statistics and Metrics*. (Invited Lecture). Presented as a Guest Lecturer. Introduction to Public Health, Department of Public Health Sciences, Medical University of South Carolina, Charleston SC, September 2018.
 11. **Nathaniel L Baker**, Kevin M Gray, Brian J Sherman, Kristen Morella, Gregory L Sahlem, Amanda M Wagner, Aimee L McRae-Clark. *Biological Correlates of Self-Reported New and Continued Abstinence in Cannabis Cessation Treatment Clinical Trials*. (Poster Presentation) The College on Problems of Drug Dependence 80th Annual Scientific Meeting, San Diego, CA, June 2018.
 12. **Nathaniel L Baker**. *Detection of Abstinence from Cannabis in Clinical Trials: Agreement between Biological and Self-Reported Use Measures*. (Oral Presentation) Brown Bag Science Seminar, Department of Public Health Sciences, Medical University of South Carolina, Charleston SC, March 2018.
 13. **Nathaniel L Baker**. *An Introduction to Power and Sample Size in Clinical Research*. (Invited Lecture) Presented as a Guest Lecturer PHHBP 714, Health Promotions Research Methods, Department of Public Health Sciences, Medical University of South Carolina, Charleston SC, February 2018.
 14. **Nathaniel L Baker**, Kelly J Hunt, Danielle R Stevens, Richard L Klein, Gabriel Virella, Maria F Lopes-Virella and the DCCT/EDIC Research Group. *Inflammatory markers and progression to kidney dysfunction: different assessment windows in type 1 diabetic subjects*. (Poster Presentation) 77th American Diabetes Association Scientific Session, San Diego, CA, June 2017.
 15. **Nathaniel L Baker**. *Statistical Implications in Cannabis Use Outcome Determination*. (Invited Oral Presentation) NIDA Clinical Trials Endpoints of Therapeutics for Cannabis Use Disorder Working Group Meeting, Bethesda, MD, September 2016.
 16. **Nathaniel L Baker**, Kelly J Hunt, Richard L Klein, Samar M Hammad, Gabriel Virella, Maria Lopes-Virella and the DCCT/EDIC Research Group. *The Association of Prevalent Macroalbuminuria with Levels of Sphingolipids and Glycosphingolipids at the end of the DCCT Study*. (Poster Presentation) 76th Scientific Session of the American Diabetes Associations, New Orleans, LA., June 2016.
 17. **Nathaniel L Baker**, Maria F Lopes-Virella, Kelly J Hunt, Patricia A Cleary, Richard Klein, Gabriel Virella, DCCT/EDIC Research Group. *Change in biomarkers of inflammation according to development and progression of albuminuria*. (Poster Presentation) 75th Scientific Session of the American Diabetes Associations, Boston, MA June 2015.
 18. **Nathaniel L Baker**, Courtney McCracken. *Statistical Consulting in Medical Research*. (Invited Lecture) Presented as a Guest Lecturer STAT 8870, Biostatistics Consulting in Research, Department of Biostatistics and Epidemiology, Medical College of Georgia, June 2014

19. **Nathaniel L Baker**, Paul J Nietert. *A Picture is Worth a Thousand Words: Graphical Display of Data and Statistical Analysis for Clinical Research*. (Invited Oral Presentation) Presented for the MUSC Apple Tree Society, Medical University of South Carolina, April 2014
20. **Nathaniel L Baker**. *Statistical Graphics for the SAS System*. (Invited Lecture) Presented as a Guest Lecturer Biometry 789-02, Computing for Research, DBE, Medical University of South Carolina, January 2014
21. **Nathaniel L Baker**, Kelly J Hunt, Richard L Klein, Samar M Hammad, Mohammed M. Al Gabdan, Gabe Virella, Maria F Lopes-Virella, and the DCCT/EDIC group of Investigators. *Plasma levels of very long chain ceramide species are associated with decreased odds of Macroalbuminuria*. (Poster Presentation) 73rd Scientific Session of the American Diabetes Associations, Chicago, IL, June 2013
22. **Nathaniel L Baker**. *Statistical Graphics for the SAS System*. (Invited Lecture) Presented as a Guest Lecturer Biometry 789-02, Computing for Research, DBE, Medical University of South Carolina, January 2013
23. **Nathaniel L Baker**, Kelly J Hunt, Tim Lyons, Rick Klein, Patricia A Cleary, Gabe Virella, Maria F Lopes-Virella, and the DCCT group of investigators. *Markers of inflammation are associated with the development of abnormal albuminuria in Type 1 Diabetics*. (Oral Presentation) American Diabetes Association 72nd Scientific Session, Philadelphia PA, June 2012
24. **Nathaniel L Baker**, Maria F Lopes-Virella, Kelly J Hunt, Gabriel Virella. *Oxidized LDL immune complex and the progression of retinopathy in Type 1 diabetes*. (Oral Presentation) Presented at the 71st American Diabetes Association Scientific Session, San Diego, CA, June 2011.
25. **Nathaniel L Baker**. *Analysis of Coronary Artery Calcification Data: Modeling Considerations*. (Oral Presentation) Presented at Teatime for Science, DBE, Medical University of South Carolina, April 2011
26. **Nathaniel L Baker**. *An Introduction to Graphics in SAS*. (Invited Lecture) Presented as a Guest Lecturer Biometry 789-02, Computing for Research, DBE, Medical University of South Carolina, January 2011
27. **Nathaniel L Baker**. *Estimating Stratified two Factor Interactions in a three Factor Design in SAS Proc Mixed*. (Oral Presentation) Presented to the DBE Collaborative Unit, Medical University of South Carolina, Charleston, SC, January 2011.
28. **Nathaniel L Baker** *Jittering: A SAS® Macro to Shift Overlapping Plots*. (Oral Presentation) Presented at the Southeast SAS Users Group, Birmingham, AL, October 2009.

Publications:

Peer Reviewed Journal Articles

As Primary/Senior Author:

1. Erin A McClure, Brian Neelon, Rachel L Tomko, Kevin M Gray, Aimee L McRae-Clark, **Nathaniel L Baker**. Cannabis Use Reduction is Associated with Improved Functional Outcomes: An Exploratory Aggregated Analysis from Seven Cannabis Use Disorder Treatment Trials to Extract Data-Driven Cannabis Reduction Metrics. *American Journal of Psychiatry*. 2024, In Press.
2. **Nathaniel L Baker**, Brian Neelon, Viswanathan Ramakrishnan, Kathleen T Brady, Kevin M Gray, Michael E Saladin, Sudie E Back, Julianne Flannagan, Constance Guille, Aimee L McRae-Clark. Sex Difference in Drug Induces Stress and Craving Response to the Trier Social Stress Task. *Psychopharmacology*. 2022; 239:2819-2827.
3. **Nathaniel L Baker**, Viswanathan Ramakrishnan, Kevin M Gray, Matthew J Carpenter, Erin A McClure, Rachel L Tomko, Michael E Saladin. Characterization of Salivary Progesterone in Female Smokers. *Nicotine and Tobacco Research*. 2022 October; 24(11):1829-1833
4. **Nathaniel L Baker**, Samar M Hammad, Kelly J Hunt, Andrea Semler Richard L Klein, Maria F Lopes-Virella. Plasma ApoM levels and progression to kidney dysfunction in Type 1 diabetes. *Diabetes*. 2022 August; 71(8):1795-1799

5. **Nathaniel L Baker**, Kevin M Gray, Ramesh Ramakrishnan, Rachel L Tomko, Erin A McClure, Matthew Carpenter, Michael E. Saladin. Increases in Endogenous Progesterone Attenuate Smoking in a Cohort of Non-Treatment Seeking Women: An Exploratory Prospective Study. *Addiction Biology*. 2021 March; 26(2): e12918
6. **Nathaniel L Baker**, Kevin M Gray, Brian J Sherman, Kristen Morella, Gregory L Sahlem, Amanda M Wagner, Aimee L McRae-Clark. Biological Correlates of Self-Reported New and Continued Abstinence in Cannabis Cessation Treatment Clinical Trials. *Drug and Alcohol Dependence*. 2018 June; 187:270-277.
7. **Nathaniel L Baker**, Kelly J Hunt, Danielle R Stevens, Gabor Jarai, Glenn Rosen, Richard L Klein, Gabriel Virella, Maria F Lopes Virella, and the DCCT/EDIC Research Group. The association between inflammatory markers and progression to kidney dysfunction: examining different assessment windows in type 1 diabetic subjects. *Diabetes Care*. 2018 January;41(1):128-135.

Other Published/Accepted:

8. Wen C-C, **Nathaniel L Baker** , Paul R, Hill E, Hunt K, Li H, Gray K, Neelon B (2024). A Bayesian Beta-Binomial Piecewise Growth Mixture Model for Longitudinal Overdispersed Binomial Data. *Statistical Methods in Medical Research*. In press.
9. Lisa M Fucito, Stephen R Baldassarri, **Nathaniel L Baker**, Amanda M Palmer, Stephanie S O'Malley, Matthew J Carpenter, Suchitra Krishnan-Sarin, Kevin M Gray, Benjamin A Toll. Varenicline for E-Cigarette Cessation in Adults: A Preliminary Placebo Controlled Randomized Trial. *American Journal of Preventative Medicine*. 2024, In Press.
10. Christal N Davis, Kathryn S Gex, Lindsay M Squeglia, Timothy J Trull, Denis M McCarthy, **Nathaniel L Baker**, Kevin M Gray, Aimee L McRae-Clark, Rachel L Tomko. Development and Initial Validation of a Momentary Cannabis Craving Scale Within a Homogeneous Sample of U.S. Emerging Adults. *Assessment*, 2024, In Press.
11. Amanda M Palmer, Alana M Rojewski, Matthew J Carpenter, Elias M Klemperer, **Nathaniel L Baker**, Brandon T Sanford, Benjamin A Toll. Interest in quitting E-Cigarette Use by Device Type and Smoking History in US Adults. *Tobacco Control*, 2024 In Press
12. Melissa R Schick, **Nathaniel L Baker**, Caitlyn O Hood, Rachel L Tomko, Kevin M Gray, Viswanathan Ramakrishnan, Michael E Saladin, Erin A McClure. Effects of ovarian hormone levels on stress, cigarette craving, and smoking in a laboratory relapse paradigm among females who smoke daily. *Nicotine & Tobacco Research*, 2024 February, 26(3): 392-396
13. Brandon T Sanford, Naomi C Brownstein, **Nathaniel L Baker**, Amanda M Palmer, Tracy T Smith, Alana M Rojewski, Benjamin A Toll. Shift from Smoking Cigarettes to Vaping Nicotine in Young Adults, *JAMA Internal Medicine*, 2024 January, 184(1):106-108.
14. Maria F Lopes-Virella, Samar M Hammad, **Nathaniel L Baker**, Richard L Klein, Kelly J Hunt. Circulating Lipoprotein Shpingolipids in Chronic Kidney Disease with and without Diabetes. *Biomedicines*, 2024 January; 12(1):190.
15. Amanda M Palmer, Matthew J Carpenter, **Nathaniel L Baker**, Brett Froeliger, Madeline Foster, Eric Garland, Michael E Saladin, Benjamin A Toll. Development of Two Novel Treatments to Promote Smoking Cessation: Savor and Retrieval Extinction Training Pilot Clinical Trial Findings. *Experimental and Clinical Psychopharmacology* 2023 February, 32(1): 16-26
16. Chun-Che Wen, **Nathaniel L Baker**, Rajib Paul, Elizabeth Hill, Kelly J Hunt, Hong li, Kevin M Gray, Brian Neelon. A Bayesian Zero-Inflated Beta-Binomial Model for Longitudinal Data with Group Specific Change-points. *Statistics In Medicine*, 2024 January, 43(1): 125-140.
17. Alana M Rojewski, Amanda M Palmer, **Nathaniel L Baker**, Benjamin A Toll. Smoking Cessation Pharmacotherapy Efficacy in Comorbid Medical Populations: Secondary Analysis of the EAGLES Randomized Clinical Trial, *Nicotine & Tobacco Research*, 2024 January, 26(1):31-38.

18. Gregory L Sahlem, Kim Bohye, **Nathaniel L Baker** , Brendel L Wong, Margarete A Caruso, Lauren A Campbell, Irakli Kaloani, Brian J Sherman, Tiffany J Ford, Ahmed H Musleh , Jane P Kim, Nolan R Williams, Andrew J Manett, Ian H Kratter, Edward B Short, Therese K Killeen, Mark S George, Aimee L McRae-Clark. A Preliminary Investigation Of Repetitive Transcranial Magnetic Stimulation Applied To The Left Dorsolateral Prefrontal Cortex In Treatment Seeking Participants With Cannabis Use Disorder. *Drug and Alcohol Dependence*, 2024 January, 111035
19. Erin M Martin, **Nathaniel L Baker**, Cristina Sempio, Uwe Christians, Jost Klawitter, Aimee L McRae-Clark. Sex differences in endocannabinoid tone in cannabis use disorder and acute cannabis abstinence, *Addiction Biology*, 2023 October; 28(10):e13337.
20. Brandon Sanford, Alana Rojewski, Amanda Palmer, **Nathaniel Baker**, Matthew Carpenter, Tracy T Smith, Benjamin Toll. E-Cigarette Screening in Primary Care. *American Journal of Preventative Medicine* 2023 September; 65(3):P517-520.
21. Therese Killeen, **Nathaniel L Baker**, Lori L Davis, Sarah Bowen, Kathleen T Brady. Efficacy of Mindfulness-Based Relapse Prevention in a Sample of Veterans in a Substance Use Disorder Aftercare Program: A Randomized Controlled Trial. *Journal of Substance Abuse Treatment* 2023 September; 152:209116.
22. Brandon T Sanford, Benjamin A Toll, Lisa M Fucito, **Nathaniel L Baker**, Sunita Krishnan-Sarin, Matthew J Carpenter, Steven L Bernstein, Alana Rojewski. A secondary analysis of a preliminary contingency management intervention for presurgical cancer patients: Evaluating individual participant data. *Nicotine & Tobacco Research* 2023 August 19; 25(9):1614-1618.
23. Sarah N Price, Amanda M Palmer, Lisa M Fucito, Evan M Graboyes, **Nathaniel L Baker**, Alana M Rojewski, Benjamin A Toll. Tobacco Use and Cancer-Related Symptom Burden; Analysis of the United States Population Assessment of Tobacco and Health Study. *Cancer*. 2023 August 1;129(15):2385-2394.
24. Brian J Sherman, Zoe E Brasher, **Nathaniel L Baker**, Aimee L McRae-Clark, Brett E Froeliger. Restructuring Reward: A Pilot Study to Enhance Natural Reward Response in Adults with Cannabis Use Disorder. *Drug and Alcohol Dependence* 2023 August 1;249:110830.
25. Therese Killeen, Chun-Che Wen, Brian Neelon, **Nathaniel L Baker**. Predictors of Treatment Completion among Women Receiving Integrated Treatment for Comorbid Posttraumatic Stress and Substance Use Disorders. *Substance Use and Misuse* 2023 August; 58(4):500-511.
26. Erin A McClure, **Nathaniel L Baker**, Rachel Tomko, Elizabeth Bradley, Kyle Walters, Matthew J Carpenter, Lindsay Squeglia, Kevin M Gray. Monitoring Cigarette Smoking and Relapse in Young Adults with and without Remote Biochemical Verification: A Randomized Brief Cessation Study. *JMIR Formative Research* 2023 July; 7:e47662.
27. Christina M Lopez, **Nathaniel L Baker**, Angela D Moreland-Johnson, Erin Bisca, Tayler Wilson, Nathalie Slick, Carla K Danielson, Allison R Eckard, Mohan Madiseti, Patricia A Resick, Steven A Safren. Development and Feasibility Testing of an Integrated PTSD and Adherence Intervention Cognitive Processing Therapy-Life steps (CPT-L) to Improve HIV Outcomes: Trial Protocol. *Contemporary Clinical Trials* 2023 May; 33(101150).
28. ReJoyce Green, **Nathaniel L Baker**, Pamela L Ferguson, Daniel Hashemi, Kevin M Gray. ADHD Symptoms and Smoking in a Randomized Controlled Trial of Varenicline for Adolescent and Young Adults Tobacco Cessation. *Drug and Alcohol Dependence* 2023 March; 244(1) 109798.
29. Kyle J Walters, **Nathaniel L Baker**, Rachel L Tomko, Kevin M Gray, Matthew J Carpenter, Erin A McClure. Determining the Impact of Cannabis Use and Severity on Tobacco Cessation Outcomes: Study Protocol for a Prospective Tobacco Treatment Trial. *BMC Psychiatry* 2023 January; 11(25).
30. Erin Martin, Brian Neelon, Kathleen Brady, Constance Guille, **Nathaniel L Baker**, Viswanathan Ramakrishnan, Aimee McRae-Clark. Differential Prevalence of Adverse Childhood Experiences (ACEs) by gender and substance used in individuals with Cannabis, Cocaine, Opioid, and Tobacco Use Disorders. *American Journal of Drug and Alcohol Abuse* 2023 Mar 7:1-9.

31. Amanda M Palmer, Matthew J Carpenter, Alana M Rojewski, Kayla Haire, **Nathaniel L Baker**, Benjamin A Toll. Nicotine Replacement Therapy for Vaping Cessation among Mono and Dual Users: A Mixed Methods Preliminary Study. *Addictive Behaviors*. 2023 April; 139:107579.
32. Brandon T Sanford, Benjamin A Toll, Allison B Eckard, Katie R Sterba, Kenneth M Cummings, **Nathaniel L Baker**, Alana M Rojewski. Optimizing Tobacco Treatment Delivery for People with HIV: Trail Protocol for a Randomized Controlled Trial. *Addiction Science & Clinical Practice*. 2022 November 5;17(1):61
33. Jane E Joseph, Nicholas Bustos, Kathleen Crum, Julianne Flanagan, **Nathaniel L Baker**, Megan Moran Santa-Maria, Kathleen Brady, Aimee McRae-Clark. Oxytocin Moderates Corticolimbic social stress reactivity in cocaine use disorder and healthy controls. *Comprehensive Psychoneuroendocrinology*. 2022. June (11):100150
34. Samar M Hammad, **Nathaniel L Baker**, Kelly J Hunt, Richard L Klein, Maria F Lopes-Virella. Diabetes and Kidney Dysfunction Markedly alter the Content of Sphingolipids Carried by Circulating Lipoproteins. *Journal of Clinical Lipidology*. 2022 March/April; 16(2):173-183.
35. Constance Guille, Courtney King, Viswanathan Ramakrishnan, **Nathaniel L Baker**, Bernadette Cortese, Lisa Nunn, Taylor Rogers, Aimee McRae-Clark, Kathleen Brady. The Impact of Lofexidine on Stress-Related Opioid Craving and Relapse: Design and Methodology of a Randomized Clinical Trial. *Contemporary Clinical Trials*. 2021 December 111:106616
36. Aimee McRae-Clark, Kevin M Gray, **Nathaniel L Baker**, Brian J Sherman, Lindsay Squeglia, Gregory L Sahlem, Amanda Wagner, Rachel Tomko. Varenicline for cannabis use disorder: a placebo-controlled pilot trial. *Drug and Alcohol Dependence*. 2021 December 229(B1):109111
37. Alana M Rojewski, Lisa M Fucito, **Nathaniel L Baker**, Amanda M Palmer, Madeline G Foster, Graham W Warren, Steven L Bernstein, & Benjamin A Toll. A preoperative contingency management intervention for smoking abstinence in cancer patients: Trial protocol for a multisite randomized controlled trial. *BMJ Open*. 2021 August 225(1): 108815.
38. Erin A McClure, Amy E Wahlquist, Rachel L Tomko, **Nathaniel L Baker**, Matthew J Carpenter, Elizabeth D Bradley, Patrick A Cato, Cassandra D Gipson, Kevin M Gray, K.M. Evaluating N-acetylcysteine for early and end-of-treatment abstinence in adult cigarette smokers. *Drug and Alcohol Dependence*. 2021 August, 225 (1):108815
39. Kathleen T Brady, Therese Killeen, **Nathaniel L Baker**. Efficacy of Mindfulness Based Relapse Prevention in a sample of Veterans in a Substance Use Disorder Aftercare Program: Design and Methodology of a Randomized Clinical Trial. *Contemporary Clinical Trials*. 2021 June, 105:106393
40. Alana M Rojewski, Lisa M Fucito, **Nathaniel L Baker**, Suchitra Krishnan-Sarin, Matthew J Carpenter, Steven L Bernstein, Benjamin A Toll. A Preoperative contingency management intervention for smoking abstinence in cancer patients: a preliminary randomized controlled trial. *Nicotine and Tobacco Research*. 2021 June, 23 (6): 1064-1067
41. Brian J Sherman, **Nathaniel L Baker**, Katherine Schmarder, Aimee L McRae-Clark, Kevin M Gray. Latency to cannabis dependence mediates the relationship between age at cannabis use initiation and cannabis use outcomes during treatment in men but not women. *Drug and Alcohol Dependence*. 2021 January 218: 108383
42. Caitlyn O Hood, Rachel L Tomko, **Nathaniel L Baker**, Breanna Tuck, Julianne C Flanagan, Matthew J Carpenter, Kevin Gray, Michael E Saladin, Erin A McClure. Examining Sex, Adverse Childhood Experiences, and Oxytocin on Neuroendocrine Reactivity in Smokers. *Psychoneuroendocrinology*. 2020 October; 120: 104752
43. Julianne C Flanagan, Jennifer Mitchell, **Nathaniel L Baker**, Joshua Wooley, Bethany Wangelin, Sudie E Back, JR McQuaid, T Neylan, WR Wolfe, Kathleen T Brady. Enhancing Prolonged Exposure Therapy for PTSD among Veterans with Oxytocin: Design of a Multisite Randomized Controlled Trial. *Contemporary Clinical Trials*. 2020 August; 95: 106074.
44. Erin A McClure, **Nathaniel L Baker**, Caitlyn O Hood, Rachel L Tomko, Lindsay M Squeglia, Julianne C Flanagan, Matthew J Carpenter, Kevin M Gray. Cannabis and alcohol co-use in a smoking cessation

- pharmacotherapy trial for adolescent and emerging adult smokers. *Nicotine and Tobacco Research*. 2020 August; 22(8):1374-1382.
45. Brian J Sherman, **Nathaniel L Baker**, Kathleen T Brady, Jane E Joseph, Lisa M Nunn, Aimee L McRae-Clark. The effect of oxytocin, gender and ovarian hormones on stress reactivity in individuals with cocaine use disorder. *Psychopharmacology*. 2020 July; 237(7):2031-2042.
 46. Jordan Carter, Angela M Kerns, Rachel M Weber, Constance Garcia-Keller, **Nathaniel L Baker**, Carmela M Reichel. Long term impact of acute stress on anxiety, social preferences, and reinstated heroin seeking. *Psychopharmacology*. 2020 June; 237:1709-1721.
 47. Jane Joseph, Aimee McRae-Clark, Brian J Sherman, **Nathaniel L Baker**, Megan Moran-Santa Maria, Kathleen T Brady. Neural Correlates of Oxytocin and Cue Reactivity in Cocaine-Dependent Men and Women with and without Childhood trauma. *Psychopharmacology*. 2020 February; 237: 249-261.
 48. Erin A McClure, **Nathaniel L Baker**, Kevin M Gray, Caitlyn O Hood, Rachel L Tomko, Matthew J Carpenter, Viswanathan Ramakrishnan, Cole J Buchanan, Michael E Saladin. The Influence of Gender and Oxytocin on Stress Reactivity, Cigarette Craving and Smoking in a Randomized, Placebo-Controlled Laboratory Relapse Paradigm. *Psychopharmacology*. 2020 February; 237: 543-555.
 49. Rachel L Tomko, **Nathaniel L Baker**, Erin A McClure, Amanda K Gilmore, Susan C Sonne, and Kevin M Gray. Depressive Symptoms and Cannabis Use in a Placebo –Controlled Trial of N-Acetylcysteine for Adult Cannabis Use Disorder. *Psychopharmacology*. 2020 February; 237; 479-490.
 50. Rachel L Tomko, Michael E Saladin, **Nathaniel L Baker**, Erin M McClure, Matthew J Carpenter, Viswanathan Ramakrishnan, Brian W Heckman, Jennifer M Wray, Katherine T Foster, Steven T Tiffany, Christopher L Metts, and Kevin M Gray. Sex Differences in Subjective and Behavioral Responses to Stressful and Smoking Cues Presented in the Natural Environment of Smokers. *Nicotine and Tobacco Research*. 2020 January; 22(1); 81-88
 51. Rachel L Tomko, Kevin M Gray, Marilyn A Huestis, Lindsay M Squeglia, **Nathaniel L Baker**, Erin A McClure. Measuring within-individual cannabis reduction in clinical trials: A review of the methodological challenges. *Current Addiction Reports*. 2019 December; 6 (4):429-436.
 52. Kevin M Gray, **Nathaniel L Baker**, Erin A McClure, Rachel L Tomko, Lindsay M Squeglia, Michael E Saladin, Matthew J Carpenter. Efficacy and Safety of Varenicline for adolescent smoking cessation: A randomized clinical trial. *JAMA Pediatrics*. 2019 December; 173(12):1146-1153.
 53. Rachel L Tomko, Erin M McClure, Lindsay Squeglia, Hayley Treloar Padovano, Aimee McRae-Clark, **Nathaniel L Baker**, Matthew J Carpenter, Kevin M Gray. Methods to reduce the incidence of false negative trial results in substance use research. *Current Opinion in Psychology*. 2019 December; 30:35-41.
 54. Maria F Lopes-Virella, Ionut Bebu, Kelly J Hunt, Gabriel Virella, **Nathaniel L Baker**, Barbara Braffett, Xiaoyu Gao, John M Lachin, the DCCT/EDIC Group of Investigators. Immune Complexes and the Risk of CVD in Type 1 Diabetes. *Diabetes*. 2019 September; 68:1853-1860.
 55. Jane E Joseph, Brandon K Vaughan, Christopher C Camp, **Nathaniel L Baker**, Brian K Sherman, Megan Moran-Santa Maria, Aimee McRae-Clark, Kathleen T Brady. Oxytocin-induced Changes in Intrinsic Network Connectivity in Cocaine Use Disorder: Modulation by Sex, Childhood Trauma and years of use. *Frontiers in Psychiatry*. 2019 July; 10 (502):1-14.
 56. Maria F Lopes-Virella, **Nathaniel L Baker**, Kelly J Hunt, Samar M Hammad, Gabriel Virella, Richard L Klein, and the DCCT/EDIC Research Group. Glycosylated Sphingolipids and Progression to Kidney Dysfunction. *Journal of Clinical Lipidology*. 2019 May-June; 13: 481-491.
 57. Amanda Gilmore, Constance Guille, **Nathaniel Baker**, Kathleen Brady, Christine Hahn, Callah Davis, Jenna McCauley, Sudie Back. Gender Differences in Subjective Stress and Neuroendocrine Response to a Stress Task among individuals with Opioid Dependence: A Pilot Study. *Addictive Behaviors*. 2019 May; 92:148-154.
 58. Erin A McClure, **Nathaniel Baker**, Susan C Sonne, Udi E Ghitzza, Rachel L Tomko, LaTrice Montgomery, Shanna Babalonis, Garth E Terry, Kevin M Gray. Tobacco use During Cannabis Cessation: Use Patterns

- and Impact on Abstinence in a National Drug Abuse Treatment Clinical Trials Network Study. *Drug and Alcohol Dependence*. 2018 November; 192:59-66.
59. Lisa J Germeroth, **Nathaniel L Baker**, Michael E Saladin. Intolerance for smoking abstinence among nicotine deprived, treatment seeking smokers. *Addictive Behaviors*. 2018 September; 84:13-19.
 60. Lindsay M Squeglia, Rachel L Tomko, **Nathaniel L Baker**, Erin A McClure, George A Book, Kevin M Gray. The effect of N-acetylcysteine on alcohol use during a cannabis cessation trial. *Drug and Alcohol Dependence*. 2018 April; 165:17-22.
 61. Kelly J Hunt, Miran A Jaffa, Sara M Garrett, Deirdre K Luttrell, Kenneth E Lipson, Maria F Lopes-Virella, Louis M Luttrell, Ayad A Jaffa, and **VADT Investigators**. Plasma Connective Tissue Growth Factor (CTGF/CCN2) Levels Predict Myocardial Infarction in the Veterans Affairs Diabetes Trial (VADT) Cohort. *Diabetes Care*. 2018 April; 41(4):840-846.
 62. Brian J Sherman, **Nathaniel L Baker**, Lindsay M Squeglia, Aimee L McRae-Clark. Approach bias modification for cannabis use disorder: a proof-of-principle study. *Journal of Substance Abuse Treatment*. 2018 April; 87:16-22.
 63. Megan M Moran-Santa Maria, Brian J Sherman, Kathleen Brady, **Nathaniel L Baker**, J. Madison Hyer, Chantelle Ferland, Aimee McRae-Clark. Impact of endogenous progesterone on reactivity to yohimbine and cocaine cues in cocaine-dependent women. *Pharmacology, Biochemistry and Behavior*. 2018 February; 165:63-69.
 64. Gregory L Sahlem, **Nathaniel L Baker**, Mark S George, Robert Malcolm, Aimee L McRae-Clark. Repetitive transcranial magnetic stimulation (rTMS) administration to heavy cannabis users. *The American Journal of Drug and Alcohol Abuse* 2018 January; 44(1); 47-55.
 65. Rachel L Tomko, **Nathaniel L Baker**, Erin A McClure, Susan C Sonne, Aimee L McRae-Clark, Brian J Sherman, Kevin M Gray. Incremental Validity of Estimated Marijuana Grams as a predictor of Problems and Cannabinoid Biomarkers: Evidence from a Clinical Trial. *Drug and Alcohol Dependence* 2018 January; 182:1-7.
 66. Caroline Vrana, Therese Killeen, Victoria Brandt, Jana Mastrogiovanni, **Nathaniel L Baker**. Rationale, Design, and Implementation of a Clinical Trial of a Mindfulness-Based Relapse Prevention Protocol for the Treatment of Women with Comorbid Post Traumatic Stress Disorder and Substance Use Disorder. *Contemporary Clinical Trials* 2017 October; 61:108-114.
 67. Kevin M Gray, Susan C Sonne, Erin A McClure, Udi E Ghitz, Abigail G Matthews, Aimee L McRae-Clark, Kathleen M Carroll, Jennifer S Potter, Katharina Wiest, Larissa J Mooney, Albert Hasson, Sharon L Walsh, Michelle R Lofwall, Shanna Babalonis, Robert W Lindblad, Steven Sparenborg, Aimee Wahle, Jacqueline S King, **Nathaniel L Baker**, Rachel L Tomko, Louise F Haynes, Ryan G Vandrey, Frances R Levin. A Randomized Placebo-Controlled Trial of N-Acetylcysteine for Cannabis Use Disorder in Adults. *Drug and Alcohol Dependence* 2017 August; 177:249-257.
 68. Erin A McClure, **Nathaniel L Baker**, Matthew J Carpenter, Frank A Treiber, Kevin M Gray. Attitudes and interest in technology-based treatment and the remote monitoring of smoking among adolescents and emerging adults. *Journal of Smoking Cessation* 2017;12(2):88-98.
 69. Samar M Hammad, **Nathaniel L Baker**, Jad M El Abiad, Stefanka D Spassieva, Jason S Pierce, Barbara Rembiesa, Jacek Bielawski, Maria F Lopes-Virella, Richard L Klein. Increased Plasma Levels of Select Deoxy-Ceramide and Ceramide Species are Associated with Increased Odds of Diabetic Neuropathy in Type 1 Diabetes: A Pilot Study. *NeuroMolecular Medicine* 2017;19(1):46-56.
 70. Lisa J Germeroth, Matthew J Carpenter, **Nathaniel L Baker**, Brett Froeliger, Steven D LaRowe, Michael E Saladin. A Brief Memory Updating Intervention Significantly Attenuates Smoking Behavior. *JAMA Psychiatry* 2017; 74(3);214-223.
 71. Brian Sherman, Aimee L McRae-Clark, **Nathaniel L Baker**, Susan Sonne, Therese K Killeen, Kasie Cloud, Kevin M Gray. Gender differences among treatment-seeking adults with cannabis use disorder: clinical profiles of women and men enrolled in the Achieving Cannabis Cessation-Evaluating N-acetylcysteine Treatment (ACCENT) study. *The American Journal on Addictions* 2017; 26(2):136-144.

72. Brian J Sherman, **Nathaniel L Baker**, Aimee L McRae-Clark. Effect of oxytocin pretreatment on cannabis outcomes in a brief motivational intervention. *Psychiatry Research* 2017; 249:318-320.
73. Rachel L Tomko, Michael E Saladin, Erin A McClure, Lindsay M Squeglia, Matthew J Carpenter, Stephen S Tiffany, **Nathaniel L Baker** & Kevin M Gray. Alcohol consumption as a predictor of reactivity to smoking and stress cues presented in the natural environment of smokers. *Psychopharmacology* 2017; 234:427-435.
74. Lindsay M Squeglia, **Nathaniel L Baker**, Erin A McClure, Rachel L Tomko, Vitria Adisetiyo, Kevin M Gray. Alcohol use during a trial of N-acetylcysteine for adolescent marijuana cessation. *Addictive Behaviors* 2016;63 (172-177).
75. Brian Sherman, **Nathaniel L Baker**, Aimee L McRae-Clark. Gender Differences in Cannabis use Disorder Treatment: Change Readiness and Taking Steps Predict Worse Cannabis Outcomes for Women. *Addictive Behaviors* 2016;60 (197-202).
76. Maria F Lopes-Virella, Kelly J Hunt, **Nathaniel L Baker**, Gabriel Virella, VADT Research Group. High levels of AGE-LDL, and of IgG Antibodies reacting with MDA-lysine epitopes expressed by OxLDL and MDA-LDL in Circulating Immune Complexes Predict Macroalbuminuria in Patients with Type 2 Diabetes. *Journal of Diabetes and its Complications* 2016 May-June; 30:693-699.
77. Megan M. Moran-Santa Maria, **Nathaniel L Baker**, Aimee L. McRae-Clark, James J Priciandaro, Kathleen T Brady. Effects of Yohimbine and Drug Cues on Impulsivity and Attention in Cocaine-Dependent Individuals. *Drug and Alcohol Dependence* 2016 May; 162:56-63.
78. Aimee L McRae-Clark, **Nathaniel L Baker**, Kevin M Gray, Therese K Killeen, Amanda M Wagner, C Lindsay DeVane, and Jessica Norton. Vilazadone for Cannabis Dependence: A Randomized, Controlled Pilot Trial. *The American Journal on Addictions* 2016 January; 25(1):69-75.
79. Aimee L McRae-Clark, **Nathaniel L Baker**, Kevin M Gray, Therese K Killeen, Amanda M Wagner, Kathleen T Brady, Lindsay C DeVane, Jessica Norton. Bupirone treatment of cannabis dependence: a randomized, controlled trial. *Drug and Alcohol Dependence* 2015 November; 156:29-37.
80. Aimee L McRae-Clark, **Nathaniel L Baker**, Susan C Sonne, C Lindsay DeVane, Amanda Wagner, and Jessica Norton. Concordance of direct and indirect measures of medication adherence in a treatment trial for cannabis dependence. *The Journal of Substance Abuse Treatment* 2015 October; 57:70-74.
81. Julianne C Flanagan, **Nathaniel L Baker**, Aimee L McRae-Clark, Kathleen T Brady, & Megan M Moran Santa-Maria. The Effect of Adverse Childhood Experiences on the Association between Intranasal Oxytocin and Social Stress Reactivity among Individuals with Cocaine Dependence. *Psychiatry Research* 2015 September; 229:94-100.
82. Kelly J Hunt, **Nathaniel L Baker**, Patricia A Cleary, Richard Klein, Gabriel Virella, Maria F Lopes-Virella, and the DCCT/EDIC Research Group. Longitudinal association between endothelial dysfunction, inflammation and clotting biomarkers with subclinical atherosclerosis in type 1 diabetes: an evaluation of the DCCT/EDIC cohort. *Diabetes Care* 2015 July; 38:1281-1289.
83. Kevin M Gray, Erin A McClure, **Nathaniel L Baker**, Matthew J Carpenter, Michael E Saladin, Viswanathan Ramakrishnan, and Kathleen T Brady. An Exploratory short-term double blind randomized trial of varenicline versus nicotine patch for smoking cessation in women. *Addiction* 2015 June; 110: 1027-1034.
84. Leonardo Bonilha, Jens H Jensen, **Nathaniel L Baker**, Jesse L Breedlove, Travis Nesland, Jack J Lin, and Daniel L Drane. The Brain Connectome as a Personalized Biomarker of Seizure Outcomes after Temporal Lobectomy. *Neurology* 2015 May; 84(18): 1846-1853.
85. Cheryl P Lynch, **Nathaniel L Baker**, Jeffrey E Korte, Jill G Mauldin, Maria E Mayorga, Kelly J Hunt. Increasing Prevalence of Diabetes During Pregnancy in South Carolina. *Journal of Women's Health*. 2015 April; 24(4): 316-323.
86. Michael E Saladin, Erin A McClure, **Nathaniel L Baker**, Matthew J Carpenter, Viswanathan Ramakrishnan, Karen J Hartwell, Kevin M Gray. Increasing Progesterone Levels are Associated with Smoking Abstinence

- in Free Cycling Women Smokers Receiving Brief Pharmacotherapy. *Nicotine and Tobacco Research*. 2015 April; 17(4):398-406.
87. Megan Moran Santa-Maria, **Nathaniel L Baker**, Viswanathan Ramakrishnan, Aimee McRae-Clark, Kathleen T Brady. Impact of acute guanfacine administration on stress and cue reactivity in cocaine-dependent individual. *The American Journal of Drug and Alcohol Abuse*. 2015 March; 41(2): 146-152.
88. Amanda T Roten, **Nathaniel L Baker**, Alan Boyd, Kevin M Gray. Cognitive Performance in a Placebo-Controlled Pharmacotherapy Trial for Youth with Marijuana Dependence. *Addictive Behaviors*. 2015 June; 45:119-123.
89. Hussein A Rajab, **Nathaniel L Baker**, Kelly J Hunt, Richard Klein, Patricia A Cleary, Gabriel Virella, Maria F Lopes-Virella, and the DCCT/EDIC group of Investigators. The Predictive Role of Markers of Inflammation and Endothelial Dysfunction on the course of diabetic Retinopathy in Type 1 Diabetics Subjects. *The Journal of Diabetes and its Complications*. 2015 January; 29:108-114.
90. Erin A McClure, **Nathaniel L Baker**, Cassandra D Gipson, Matthew J Carpenter, Amanda Roper, Brett Froeliger, Peter W Kalivas, Kevin M Gray. An Open Label Pilot Trial of N-acetylcysteine and Varenicline in Adult Cigarette Smokers. *The American Journal of Drug and Alcohol Abuse*. 2015 January; 41(1): 52-56.
91. Megan Moran Santa-Maria, Aimee McRae-Clark, **Nathaniel L Baker**, Viswanathan Ramakrishnan, Kathleen T Brady. Yohimbine Administration and Cue-Reactivity in Cocaine Dependent Individuals. *Psychopharmacology*. 2014 October; 231 (21); 4157-4165.
92. Richard L Klein, Samar M Hammad, **Nathaniel L Baker**, Kelly J Hunt, Mohammed M Al Gadban, Patricia A Cleary, Gabe Virella, Maria F Lopes-Virella, and the DCCT/EDIC Research Group. Decreased Plasma Levels of Select Very Long Chain Ceramide Species are Associated with The Development of Nephropathy in Type 1 Diabetes. *Metabolism*. 2014 October; 63:1287-1295.
93. Erin A McClure, **Nathaniel L Baker**, Kevin M Gray. Cigarette smoking during an N-acetylcysteine-assisted cannabis cessation trial in adolescents. *The American Journal of Drug and Alcohol Abuse*. 2014 July; 40(4): 285-291.
94. Maria F Lopes-Virella, **Nathaniel L Baker**, Kelly J Hunt, Patricia A Cleary, Richard Klein, Gabriel Viralla, and the DCCT/EDIC Research Group. Response to comment on Lopes-Virella et al. baseline marker of inflammation are associated with progression to macroalbuminuria in type 1 diabetic subjects. *Diabetes Care*. 2014, May; 37(5): e108-e109.
95. Eric M Graham, Andrew M Atz, Kimberly E McHugh, Ryan J Butts, **Nathaniel L Baker**, Robert E Stroud, Rachael L Deardorff, Scott T Reeves, Scott M Bradley, Francis X McGowan, Jr., Francis G Spinale. Preoperative Steroid Treatment Does Not Improve Markers of Inflammation Following Cardiac Surgery in Neonates. *The Journal of Thoracic and Cardiovascular Surgery*. 2014 March; 147(3): 902-908.
96. Kelly J Hunt, **Nathaniel L Baker**, Patricia Cleary, Jye-Yu Backlund, Gabriel Virella, Maria F Lopes-Virella, and the DCCT /EDIC Research Group. Oxidized LDL and AGE-LDL in Circulating Immune Complexes Strongly Predicts Progression of Internal Carotid Artery IMT in Type 1 Diabetes. *Atherosclerosis*. 2013 December; 231:315-322.
97. Erin A McClure, Michael E Saladin, **Nathaniel L Baker**, Matthew J Carpenter, and Kevin M Gray. Smoking topography and abstinence in adult female smokers. *Addictive Behaviors*. 2013 December; 38:2833-2836.
98. A. Lee Lewis, **Nathaniel Baker**, Matthew Carpenter, Erin Klintworth, Kevin M Gray. Does physician continuity within a clinical trial increase retention and compliance among adolescent smokers? *Adolescent Psychiatry*. 2013; 3:195-9.
99. Alicia J Jenkins, Jeremy Yu, Petar Alaupovic, Arpita Basu, Richard L Klein, Maria Lopes-Virella, **Nathaniel L Baker**, Kelly J Hunt, Daniel T Lackland, W. Timothy Garvey, , Timothy J Lyons, and the DCCT/EDIC Research Group. Apolipoprotein-defined Lipoproteins and Apolipoproteins: Associations with Abnormal Albuminuria in Type 1 Diabetes (DCCT/EDIC Cohort). *Journal of Diabetes and its Complications*. 2013 September; 27:447-453.

100. Stacia M DeSantis, Dipankar Bandyopadhyay, **Nathaniel L Baker**, Patrick Randall, Raymond Anton, Jim J Prisciandaro. Modeling Longitudinal Data in Substance Use Clinical Trials: An Application to the COMBINE Study. *Drug and Alcohol Dependence*. 2013 September; 132:244-250.
101. Aimee L McRae-Clark, **Nathaniel L Baker**, Megan Moran-Santa Maria, Kathleen T Brady. Effect of Oxytocin on Craving and Stress Response in Marijuana-Dependent Individuals: A Pilot Study. *Psychopharmacology*. 2013 August; 228:623-632.
102. Maria F Lopes-Virella, **Nathaniel L Baker**, Kelly J Hunt, Patricia A Cleary, Richard Klein, Gabriel Virella, and the DCCT/EDIC Research Group. Baseline Markers of Inflammation are Associated with Progression to Macroalbuminuria in Type 1 Diabetic Subjects. *Diabetes Care*. 2013 August; 36 (8); 2317-2323.
103. Kimber L Price, **Nathaniel L Baker**, Aimee McRae-Clark, Michael E Saladin, Stacia M DeSantis, Elizabeth Santa Ana, Kathleen T Brady. A Randomized, Placebo-controlled Laboratory Study of the Effects of D-cycloserine on Craving in Cocaine-Dependent Individuals. *Psychopharmacology*. 2013 April; 226 (4): 739-746
104. Michael E. Saladin, Kevin M. Gray, Aimee L. McRae-Clark, Steven D. LaRowe, Sharon D. Yeatts, **Nathaniel L Baker**, Karen J. Hartwell, and Kathleen T. Brady. A Double Blind, Placebo-Controlled Study of the Effects of Post-Retrieval Propranolol on Reconsolidation of Memory for Craving and Cue Reactivity in Cocaine Dependent Humans. *Psychopharmacology*. 2013 April; 226 (4): 721-737
105. Amanda T Roten, **Nathaniel L Baker**, Sudie Back, Kevin M Gray. Marijuana Craving Trajectories in an Adolescent Marijuana Cessation Pharmacotherapy Trial. *Addictive Behaviors*. 2013 March; 38:1788-1791.
106. Abid Irshad, Rebecca J Leddy, Etta D Pisano, **Nathaniel L Baker**, Madelene C Lewis, Susan J Ackerman, Amy S Campbell. Assessing the role of ultrasound in predicting the biological behavior of breast cancers. *The American Journal of Roentgenology*. 2013 February; 200: 284-290.
107. Gabriel Virella, Joan Colglazier, Charlyne Chassereau, Kelly Hunt, **Nathaniel L Baker**, Maria Lopes-Virella. Immunoassay of Modified Forms of Human Low-Density Lipoprotein in Isolated Circulating Immune Complexes. *Journal of Immunoassay and Immunochemistry*. 2013 January; 34 (1):61-74.
108. Maria F Lopes-Virella, Kelly J Hunt, **Nathaniel L Baker**, Thomas Moritz, Gabriel Virella, and the VADT group of Investigators. The Levels of MDA – LDL in Circulating Immune Complexes predict Myocardial Infarction in the VADT study. *Atherosclerosis*. 2012 October; 224:526-531.
109. Kevin M. Gray, Matthew J. Carpenter, **Nathaniel L. Baker**, Stacia M DeSantis, Elisabeth Kryway, Karen J Hartwell, Aimee L McRae-Clark, Kathleen T Brady. A double-blind randomized controlled trial of N-Acetylcysteine in cannabis dependent adolescents. *American Journal of Psychiatry*. 2012 August 169; 8: 805-812.
110. Maria F Lopes-Virella, **Nathaniel L Baker**, Kelly J Hunt, Timothy J Lyons, Alicia Jenkins, Gabriel Virella, and the DCCT/EDIC Research Group. High Concentrations of AGE-LDL and Oxidized LDL in Circulating Immune Complexes are Associated with Progression of Retinopathy in Type 1 Diabetes. *Diabetes Care*. 2012 June; 35: 1333-1340.
111. Bryan K Tolliver, Kimber L Price, **Nathaniel L Baker**, Steven D LaRowe, Annie N Simpson, Aimee L McRae-Clark, Michael E Saladin, Stacia M DeSantis, Kathleen T Brady. Impaired Cognitive Performance in Subjects with Methamphetamine Dependence During Exposure to Neutral Versus Methamphetamine-Related Cues. *The American Journal of Drug and Alcohol Abuse*. 2012 May; 38(3): 251-259.
112. Maria F Lopes-Virella, Rickey E Carter, **Nathaniel L Baker**, Gabriel Virella, and the DCCT/EDIC Research Group. High Levels of Oxidized LDL-Immune Complexes Are Associated with Increased Odds To Develop Nephropathy In Type 1 Diabetes. *Nephrology Dialysis Transplantation*. 2012 April; 27(4): 1426-1423.
113. Eric M Graham, Andrew M Atz, Ryan J Butts, **Nathaniel L Baker**, Sinai C Zyblewski, Rachael L Deardorff, Stacia M DeSantis, Scott T Reeves, Scott M Bradley, Francis G Spinale. Standardized Preoperative Corticosteroid Treatment in Neonates undergoing Cardiac Surgery-Results from a Randomized Trial. *The Journal of Thoracic and Cardiovascular Surgery*. 2011 December; 142 (6): 1523-1529.

114. Abid Irshad, Susan J Ackerman, Kenneth M Spicer, **Nathaniel L Baker**, Amy S Campbell, Anis Munazza, Mehwish Shazly. Ultrasound Evaluation of Gallbladder Dyskinesia: Comparison of Scintigraphy and Dynamic 3D and 4D Ultrasound Techniques. *The American Journal of Roentgenology*. 2011 November; 197 (5): 1103-1110.
115. Jennifer A Dixon, Amy M Goodman, William F Gaillard, William T Rivers, Richard A McKinney, Rupak Mukherjee, **Nathaniel L Baker**, John S Ikonmidis, Francis G Spinale. Hemodynamics and Myocardial Blood Flow Patterns after Placement of a Cardiac Passive Restraint Device in a Model of Dilated Cardiomyopathy. *The Journal of Thoracic and Cardiovascular Surgery*. 2011 November; 142 (5): 1038-1045.
116. Jennifer A Dixon, Amy M Goodman, William F Gaillard, William T Rivers, Richard A McKinney, Rupak Mukherjee, **Nathaniel L Baker**, John S Ikonmidis, Francis G Spinale. Hemodynamics and Myocardial Blood Flow Patterns after Placement of a Cardiac Passive Restraint Device in a Model of Dilated Cardiomyopathy. *The Journal of Thoracic and Cardiovascular Surgery*. 2011 November; 142 (5): 1038-1045.
117. Aimee L McRae-Clark, Rickey E Carter, Kimber L Price, **Nathaniel L Baker**, Suzanne Thomas, Kathleen Giarla, Katherine Nicholas, Kathleen T Brady. Stress and Cue-Elicited Craving and Reactivity in Marijuana-Dependent Individuals. *Psychopharmacology*. 2011 November; 218:49-58.
118. Kimber L Price, Stacia M DeSantis, Annie N Simpson, Brian K Tolliver, Aimee McRae-Clark, Michael E Saladin, **Nathaniel L Baker**, Mark Wagner, Kathleen T Brady. The Impact of Clinical and Demographic Variables on Cognitive Performance in Methamphetamine-dependent Individuals in Rural South Carolina. *American Journal on Addictions*. 2011 September; 20; 447-455.
119. Jennifer A Dixon, Robert C Gorman, Robert E Stroud, Rupak Mukherjee, Evan C Meyer, **Nathaniel L Baker**, Masoto Morita, Hirotsugu Hamamoto, Liam P Ryan, Joseph H Gorman, Francis G Spinale. Targeted Regional Injection of Biocomposite Microspheres Alters Post-Myocardial Infarction Remodeling and Matrix Proteolytic Pathways. *Circulation*. 2011 September; 124:S35-S45
120. Stacia M DeSantis, **Nathaniel L Baker**, Sudie E Back, Eve G Spratt, Jody D Ciolino, Megan M Moran-Santa Maria, Dipankar Bandyopadhyaya, Kathleen T Brady. Gender differences in the Effect of Early Life Trauma on HPA Axis Functioning. *Depression and Anxiety*. 2011 May; 28: 383-392
121. Richard L Klein, Rickey E Carter, Alicia J Jenkins, Timothy J Lyons, **Nathaniel L Baker**, Gregory E Gilbert, Gabriel Virella, Maria F Lopes-Virella and the DCCT/EDIC Research Group. LDL-Containing Immune Complexes in the DCCT/EDIC Cohort: Associations with Lipoprotein Subclasses. *Journal of Diabetes and its Complications*. 2011 March; 25: 73-82.
122. Maria F Lopes-Virella, Kelly J Hunt, **Nathaniel L Baker**, John Lachin, David M Nathan, Gabriel Virella, and the DCCT/EDIC Research Group. Oxidized LDL and AGE- LDL Immune Complexes Strongly Predict the Development of Vascular Disease in Type 1 Diabetes. *Diabetes*. 2011 February; 60: 582-589.
123. Maria F Lopes-Virella, **Nathaniel L Baker**, Kelly J Hunt, John Lachin, David M Nathan, Gabriel Virella, and the DCCT/EDIC Research Group. Oxidized LDL Immune Complexes and Coronary Artery Calcification in Type 1 Diabetes. *Atherosclerosis*. 2011 February; 214: 462-467
124. Kevin M Gray, Matthew J Carpenter, **Nathaniel L Baker**, Karen J Hartwell, A Lee Lewis, D. Walter Hiott, Deborah Deas, Himanshu P Upadhyaya. Bupropion SR and Contingency Management for Adolescent Smoking Cessation: A Randomized, Double Blind, Placebo-Controlled Trial. *Journal of Substance Abuse Treatment*. 2011 January; 40: 77-86.
125. Matthew J Carpenter, **Nathaniel L Baker**, Kevin M Gray, Himanshu P Upadhyaya. Assessment of Nicotine Dependence among Adolescent and Young Adult Smokers: A Comparison of Measures. *Addictive Behaviors*. 2010 November; 35: 977-982
126. Megan M Moran-Santa Maria, Aimee L McRae-Clark, Sudie E Back, Stacia M DeSantis, **Nathaniel L Baker**, Eve G Spratt, Annie N Simpson, Kathleen T Brady. Influence of Cocaine Dependence and Early Life Stress on Pituitary-Adrenal Axis Responses to CRH and the Trier Social Stressor. *Psychoneuroendocrinology*. 2010 November; 35: 1492-1500.

127. Kimber L Price, Michael E Saladin, **Nathaniel L Baker**, Bryan K Tolliver, Stacia M DeSantis, Aimee McRae-Clark, Kathleen T Brady. Extinction of Drug Cue Reactivity in Methamphetamine-Dependent Individuals. *Behaviour Research and Therapy*. 2010 September; 48: 860-865
128. Kevin M Gray, **Nathaniel L Baker**, Matthew J Carpenter, A. Lee Lewis, & Upadhyaya, H. P. Attention-Deficit/Hyperactivity Disorder (ADHD) Confounds Nicotine Withdrawal Self-Report in Adolescent Smokers. *American Journal on Addictions*. 2010 July; 19 (4): 325-331
129. Brian K. Tolliver, Aimee McRae-Clark, Michael Saladin, Kimber L Price, Annie N Simpson, Stacia M Desantis, **Nathaniel L Baker**, Kathleen T Brady. Determinants of Cue-Elicited Craving and Physiologic Reactivity in Methamphetamine-Dependent Subjects in the Laboratory. *The American Journal of Drug and Alcohol Abuse*. 2010 March; 36 (2): 106-113
130. Sudie E Back, Karen Hartwell, Stacia M DeSantis, Michael E Saladin, Aimee L McRae-Clark, Kimber L Price, Megan M Moran-Santa Maria, **Nathaniel L Baker**, Eve Spratt, Mary Jeanne Kreek, Kathleen T Brady. Reactivity to Laboratory Stress Provocation Predicts Relapse to Cocaine. *Drug and Alcohol Dependence*. 2010 January; 106 (1): 21-27.
131. Abid Irshad, Susan J. Ackerman, Munazza Anis, Amy S. Campbell, Atif Hashmi, **Nathaniel L. Baker**. Can the smallest depth of ascitic fluid on sonograms predict the amount of drainable fluid? *Journal of Clinical Ultrasound*. 2009 October; 37 (8): 440-444.

White Papers

132. **Nathaniel L Baker**, Kevin M Gray. Jittering: A SAS® Macro to Shift Overlapping Plots. Proceedings of the Southeast SAS Users Group (SESUG) 2009 Conference; Statistics and Data Analysis Paper 002 (SD-002). Cary, NC: SAS Institute Inc. October 2009.
133. Gregory L Sahlem, Logan T Dowdle, **Nathaniel L Baker**, Brian J Sherman, Kevin M Gray, Aimee L McRae-Clark, Brett Froeliger, Lindsay M Squeglia. Exploring the Utility of a Functional Magnetic Resonance Imaging (fMRI) Cannabis Cue-Reactivity Paradigm in Treatment Seeking Adults with Cannabis Use Disorder. medRxiv. December 2023

Conference, Symposium, Continuing Education, Professional Development and Short Course Attendance

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| 2003 | Joint AMS / MAA SE Regional Conference, Clemson SC |
| 2005 | Joint AMS / MAA National Meeting, Atlanta GA |
| 2008 | Southeast SAS Users Group Meeting, St. Petersburg FL |
| 2009 | Frontiers in Quantitative Methods for Cancer Research, Medical College of Georgia
Short Course, Augusta GA |
| 2009 | Southeast SAS Users Group Meeting, Birmingham AL (Presenter) |
| 2010 | American Diabetic Association Scientific Symposium, Orlando FL |
| 2011 | American Diabetic Association Scientific Symposium, San Diego CA (Presenter) |
| 2012 | American Diabetic Association Scientific Symposium, Philadelphia PA (Presenter) |
| 2013 | Workshops in Quantitative Research Methodology, Summer Research Institute, Short Course
on Longitudinal/Multilevel Modeling, May 2013, MUSC, Charleston, SC |
| 2013 | Statistics in Medicine (HRP258-MOOC; Dr. Kristin Sainani), Certificate with Distinction, June 10-
Aug 16, 2013, Stanford University |
| 2013 | International Conference on Health Policy Statistics, Chicago IL |
| 2013 | ICHP Workshop on Extended Mixed Models for Ecological Momentary Assessment (EMA) Data,
Dr. Don Hedeker, October 2013, Chicago IL |
| 2014 | Statistical Analysis of fMRI Data (MOOC; Dr. Martin Lindquist), Certificate with Distinction,
February 24-April 6, Johns Hopkins University |

2015	American Diabetic Association Scientific Symposium, Boston MA (Presenter)
2015	Using Propensity Scores to Effectively Design and Analyze Observational Studies (American Statistical Association Short Course; Dr. Thomas E Love), November 6, 2015, Medical University of South Carolina
2016	American Diabetic Association Scientific Symposium, New Orleans LA (Presenter)
2016	National Institute of Drug Abuse Conference on Clinical Trial Endpoints of Therapeutics for Cannabis Use Disorders (CUDs), September 12 th , 2016, Bethesda, MD (Invited Presenter)
2017	American Diabetic Association Scientific Symposium, San Diego CA (Presenter)
2018	MUSC Women's Scholars Initiative: 2018 Career Development Program: Leadership and Advancement, March 15-16, 2018, Charleston, SC
2018	College on Problems of Drug Dependence 80 th Annual Scientific Meeting, June 2018, San Diego CA (Presenter)
2018	South Carolina Clinical and Translational Research Institute (SCTR) Scientific Retreat on Opioids Research. October 26, 2018. Medical University of South Carolina, Charleston, SC
2019	College on Problems of Drug Dependence 81 st Annual Scientific Meeting, June 2019, San Antonio TX (Presenter)
2020	College on Problems of Drug Dependence 82nd Annual Scientific Meeting, June 2020, Virtual (Presenter)
2020	ORWH's 30 th Anniversary Meeting: Advancing the Health of Women Through Science, December 2020, Virtual.
2020	Specialized Centers of Research Excellence (SCORE) 2020 Annual Meeting, December 2020, Virtual (Presenter)
2021	College on Problems of Drug Dependence 83rd Annual Scientific Meeting, June 2021, Virtual (Presenter)
2021	Specialized Centers of Research Excellence (SCORE) 2021 Annual Meeting, December 2021, Virtual (Presenter)
2022	South Carolina American Statistical Association Annual Meeting, March 2022, Columbia SC
2022	Specialized Centers of Research Excellence (SCORE) 2022 Annual Meeting, November 2022, Virtual
2023	Specialized Centers of Research Excellence (SCORE) 2023 Annual Meeting, December 2022, Virtual