

CURRICULUM VITAE

Tiffanie M. Markus, Ph.D., CCRP

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EDUCATION

- 1996 **B.A.** Psychology, Department of Psychology, Austin Peay State University, Clarksville, Tennessee; Minor-Health
- 1999 **M.A.** *Magnum Cum Laude*, Psychological Science, Department of Psychology, Austin Peay State University, Clarksville, Tennessee
Thesis: Divided attention between visual and auditory stimuli: Implications for cellular phone use while driving
Supervisor: Anthony Golden, Ph.D.
- 2002 **Ph.D.** *Magnum Cum Laude*, Brain and Cognitive Science Program, Department of Psychology, Southern Illinois University, Carbondale, Illinois
Dissertation: An investigation into the modulatory effects of vagus nerve stimulation on emotional expression in laboratory rats
Supervisor: Robert A. Jensen, Ph.D.
- 2002-2005 **Postdoctoral Fellow**
Neuroscience & Aging Institute, Stritch School of Medicine
Loyola University of Chicago, Maywood, Illinois
Supervisors: Gwendolyn Kartje, M.D., Ph.D.
George H. DeVries, Ph.D.
- 2006-2007 **Postdoctoral Fellow**
Vanderbilt University Institute of Imaging Science
Vanderbilt University, Nashville, Tennessee
Supervisors: John C. Gore, Ph.D.
Malcolm Avison, Ph.D.

Certification

2009-present Certified Clinical Research Professional (CCRP)

ACADEMIC APPOINTMENTS/EMPLOYMENT

- 1997 **Research/Teaching Assistant**
Austin Peay State University, Clarksville, Tennessee
Supervisor: Charles B. Woods, Ph.D.
- 1998-1999 **Graduate Research Group**
Department of Psychology, Austin Peay State University, Clarksville, Tennessee
Supervisor: Charles Grah, Ph.D.
Research Project - *Investigation of individual differences in implicit memory*
- 1998-1999 **Research Group Supervisor** (*undergraduate supervisor*)
Department of Psychology
Austin Peay State University, Clarksville, Tennessee
Supervisor: Maureen A. McCarthy, Ph.D.
Research Project - *Physiological perception of women with eating disorders*
- 1998-1999 **Graduate Assistant**
Austin Peay State University, Clarksville, Tennessee
Assistant to the Director of the Project for Area Concentration Achievement Testing (PACAT)
- 1999-2000 **Teaching Assistant**
Southern Illinois University, Carbondale, Illinois
Introduction to Psychology (PSY 102)
- 1999-2001 **Graduate Research Coordinator** (*undergraduate supervisor*)
Integrative Neuroscience Laboratory
Southern Illinois University, Carbondale, Illinois
Supervisor: David Gilbert, Ph.D.
EEG acquisition and analysis, radioimmunoassays, PCR analysis
- 1999-2002 **Graduate Research Assistant**
Neurophysiological Research Laboratory
Southern Illinois University, Carbondale, Illinois
Supervisor: Robert Jensen, Ph.D.
Decrease of anxiety-related behaviors by vagus nerve stimulation in the rat
- 2005-2006 **Visiting Research Assistant Professor**
College of Medicine
Department of Anatomy and Cell Biology
University of Illinois – Chicago
Visiting Lab location: Vanderbilt University

- 2005-2006 **Visiting Research Assistant Professor**
College of Medicine
Department of Anatomy and Cell Biology
University of Illinois – Chicago
Visiting Lab location: Vanderbilt University
- 2007-2010 **Senior Lead Clinical Research Specialist**
Sarah Cannon Research Institute
Oncology Research Consortium
Nashville, Tennessee
- 2010-2012 **Research Compliance Coordinator**
Vanderbilt University Medical Center
Cardiovascular Medicine/Vanderbilt Heart and Vascular Institute
Nashville, Tennessee
- 2012-2014 **Assistant Director, Cardiovascular Clinical Research Enterprise**
Vanderbilt University Medical Center
Cardiovascular Medicine/Vanderbilt Heart and Vascular Institute
Nashville, Tennessee
- 2015-present **Research Assistant Professor**
Director, Tennessee Emerging Infections Program
Vanderbilt University Medical Center
Department of Health Policy
Nashville, Tennessee

PROFESSIONAL ORGANIZATIONS

- 2009-present The Society of Clinical Research Associates (SoCRA)

PROFESSIONAL ACTIVITIES

- 1997 **Co-authored and compiled** *The Animal Care and Laboratory Guide*, Golden, A., Markus, T., Mukina, S., & Paine, S. (1997).
- 1998 Phi Kappa Phi, National Honor Society **Member**
- 1998 **University Animal Care and Use Committee**
Austin Peay State University, Clarksville, Tennessee
Assisted in the development of the *Application for Protocol Approval* involving animal research.
- 1999 **Graduate Honor Certificate** for outstanding scholastic achievement, Austin Peay State University

- 2001-2002 **Current Directions in Cognitive Science**
Southern Illinois University, Carbondale, Illinois
Planning and Development Committee
- 2004 National Multiple Sclerosis Society-Research pilot **award recipient**
- 2002-2005 Competitive Postdoctoral **Fellowship**
Neuroscience & Aging Institute, Stritch School of Medicine
Loyola University of Chicago, Maywood, Illinois
- 2012-present **Mentor**
Vanderbilt Program in Research Administration Development (VPRAD)
Vanderbilt University
Nashville, Tennessee
- 2015 **Panelist**
Biomedical Research Education and Training
Vanderbilt University
Nashville, Tennessee
PhD Career Connections; Office of Career Development Series
- 2018-2019 **Poster Judge**
VUMC Annual Research Forum
Vanderbilt University
Nashville, Tennessee

INVITED LECTURES

- 2003 **Guest Lecturer**
Loyola University of Chicago, Stritch School of Medicine, Maywood, Illinois
Neuroregeneration Seminar
- 2003 **Guest Lecturer**
Loyola University of Chicago, Stritch School of Medicine, Maywood, Illinois
Neuroscience Seminar Series
- 2003 **Guest Lecturer**
Plainfield South High School
Plainfield, Illinois
Freshman Brain Awareness Seminar
- 2006 **Guest Lecturer**
Vanderbilt University, Department of Psychology
Nashville, Tennessee
Recovery of Function following CNS Injury

- 2013 **Guest Lecturer**
SoCRA, local chapter meeting
Vanderbilt University
Nashville, Tennessee
Standard Operating Procedure (SOP) development and implementation
- 2014 **Guest Lecturer**
Vanderbilt Human Research Protection Program
Vanderbilt University
Nashville, Tennessee
Standard Operating Procedure (SOP) development and implementation
- 2014 **Guest Lecturer**
Vanderbilt Clinical Research Center
Vanderbilt University
Nashville, Tennessee
Standard Operating Procedure (SOP) development and implementation
- 2015 **Guest Lecturer**
Vanderbilt Clinical Research Center
Vanderbilt University
Nashville, Tennessee
Standard Operating Procedure (SOP) development and implementation
- 2016 **Guest Lecturer**
Building Research Administrator Competencies Conference
Vanderbilt University
Nashville, Tennessee
- 2016 **Guest Lecturer**
Vanderbilt Program in Research Administration Development
Vanderbilt University
Nashville, Tennessee

RESEARCH SUPERVISION

<u>Trainee/Source of Funds</u>	<u>Type of Training</u>	<u>Training Period</u>	<u>Current Position</u>
Shirin Birjandi LUMC Department of Anatomy	Graduate Student	1/2004-6/2005	University of Southern California Lecturer
Andrew Seymour, B.S. LUMC Dept of Cell Biology, Neurobiology & Anatomy	Graduate Student	2002-5/2005	Georgetown University Medical Center Assistant Professor
Ellen Andrews, M.S. LUMC	Doctoral Candidate	4/2002-2/2005	Midwestern University Assistant Professor

<u>Trainee/Source of Funds</u>	<u>Type of Training</u>	<u>Training Period</u>	<u>Current Position</u>
Dept of Cell Biology, Neurobiology & Anatomy			
Kayla Payne Sarah Cannon Research Institute - Consortium	Research Intern	5/2008-11/2008	Novella Clinical Senior Clinical Research Associate
Jesalyn Tate-Merritt Vanderbilt University Medical Center - VHVI	Research Intern	1/2011-8/2012	University of Florida Dermatology Chief Resident
Nicole Tricarico Vanderbilt University Medical Center - VHVI	Research Intern	6/2012-1/2014	University of Kansas Medical Center Ob/Gyn Medical Resident
Cassandra Jones Kansas State University	Master in Public Health – Field Experience	5/2016-8/2016	TN Dept. of Health Epidemiologist
Victoria (Kinley) Reed Kansas State University	Master in Public Health – Field Experience	1/2017-5/2017	Sullivan County Regional Health Department Medical Reserve Corps Coord.
Heather Ewing Vanderbilt University	Master in Public Health Student Worker	9/2016-7/2017	Habitat for Humanity Int. Engagement Specialist
Cassandra Oliver Vanderbilt University	Master in Public Health Student Worker	8/2016-10/2017	VU PhD Student
Mindy Pike Vanderbilt University	Master in Public Health Student Worker	8/2016-5/2018	VU PhD Student
Mariah Pettapiece- Phillips Vanderbilt University	Master in Public Health Student Worker	11/2017-5/2019	axialHealthcare Healthcare Program Analyst
Delaney Lackey Vanderbilt University	Master in Public Health Student Worker	8/2017-5/2019	Medicopy Account Manager
Amanda Abraham Vanderbilt University	Master in Public Health Student Worker	8/2016-8/2019	VU MPH Student
Ashley Brinsko Walden University	Master in Public Health Student – Field Experience	11/2018-4/2019	Williamson Medical Center
Victoria Umutoni Vanderbilt University	Master in Public Health Student Worker	10/2019-present	VU MPH Student
Emmanuel Sackey Vanderbilt University	Master in Public Health Student Worker	12/2018-present	VU MPH Student
Bentley Akoko Vanderbilt University	Master in Public Health Student Worker	10/2019-present	VU MPH Student
Isaac Shlotterbeck Vanderbilt University	Master in Public Health Student Worker	9/2019-present	VU MPH Student
Lin Ammar Vanderbilt University	Master in Public Health Student Worker	9/2019-present	VU MPH Student

RESEARCH PROGRAM

Emerging Infections Program [1U50CK000491]

Centers for Disease Control and Prevention
 \$3.7 million (annual)
 2015-present (ongoing)
 100% Effort

PUBLICATIONS

Peer-Reviewed Publications

1. Gilbert, D.G., Sugai, C., Zuo, Y., Eau Claire, N., McClernon, F.J., Rabinovich, N.E., **Markus, T.M.**, Asgaard, G. & Radtke, R. (2005). Effects of nicotine on brain responses to emotional pictures. *Nicotine and Tobacco Research*, 6, 985-996.
2. Seymour, A.B, Andrews, E.M., Tsai, S.-Y., **Markus, T.M.**, Bollnow, M.R., Breneman, M.M, O'brien, T.E., Castro, A.J, Schwab, M.E. & Kartje, G.L. (2005). Delayed treatment with monoclonal antibody IN-1 1 week after stroke results in recovery of function and corticorubral plasticity in adult rats. *Journal of Cerebral Blood Flow & Metabolism*, 25, 1366-1375.
3. **Markus, T.M.**, Tsai, S.-Y., Bollnow, M.R., Farrer, R.G., O'Brien, T.E., Mir, A.K., Baumann, D., Rausch, M., Rudin, M., Allegrini, A. P. R., Wiessner, C., Schwab, M.E. & Kartje, G.L. (2005). Functional recovery and brain reorganization following stroke and anti-Nogo treatment in adult and aged rat. *Annals of Neurology*, 58, 950-953.
4. Tsai, S-Y, **Markus, T.M.**, Andrews, E.M., Cheatwood, J.L., Emerick, A.J., Mir, A.K., Schwab, M.E., & Kartje, G.L. (2007). Intrathecal treatment with anti-Nogo-A antibody improves functional recovery in adult rats after stroke. *Experimental Brain Research*, 182, 261-266.
5. Hainsworth, J.D., Spigel, D.R., **Markus, T.M.**, Shipley, D., Thompson, D., Rotman, R., Dannaher, C., & Greco, F.A. (2009). Rituximab plus short-duration chemotherapy followed by Yttrium-90 Ibritumomab tiuxetan as first-line treatment for patients with follicular non-Hodgkin lymphoma: a phase II trial of the Sarah Cannon Oncology Research Consortium. *Clinical Lymphoma Myeloma*. 9(3):223-8.
6. Hainsworth, J.D., Spigel, D.R., Burris, H.A. 3rd, **Markus, T.M.**, Shipley, D., Kuzur, M., Lunin, S., & Greco, F.A. (2009). Neoadjuvant chemotherapy/gefitinib followed by concurrent chemotherapy/radiation therapy/gefitinib for patients with locally advanced squamous carcinoma of the head and neck. *Cancer*. 115(10):2138-46.
7. Yardley, D.A., Burris, H.A. 3rd, **Markus, T.**, Spigel, D.R., Greco, F.A., Mainwaring, M., Waterhouse, D.M., Webb, C.D., & Hainsworth, J.D. (2009). Phase II trial of docetaxel plus imatinib mesylate in the treatment of patients with metastatic breast cancer. *Clinical Breast Cancer*. 9(4):237-42.
8. Ellis, C.R., **Markus, T.M.**, Dickerman, D., Orton, J.M., Hassan, S., Good, E.D., Okabe, T., & Greenspon, A. (2014). Ampere Hour (Ah) as a Predictor of CRT ICD Pulse Generator Battery Longevity. A Multi-Center Study. *Journal of Cardiac Failure*. 20(8S):S37.

9. Chandrasekhar, R., Sloan, C, Mitchel, E., Ndi, D., Alden, N., Thomas, A., Bennett, N.M., Kirley, P.D., Hill, M., Anderson, E.J., Lynfield, R., Yousey-Hindes, K., Barsten, M., Zansky, S.M., Lung, K., Schroeder, M., Monroe, M., Eckel, S., **Markus, T.M.**, Cummings, C.N., Garg, S., Schaffner, W., Lindegren, M.L. (2017). Social determinants of influenza hospitalizations in the United States. *Influenza and Other Respiratory Viruses*. 11:479-488.
10. Dobrzynski, D., Ndi, D., **Markus, T.M.**, Zhu, Y., Schaffner, W., & Talbot, H.K. (2020). Hospital readmissions following laboratory-confirmed influenza. *The Journal of Infectious Diseases*. 222(4):583–589, <https://doi.org/10.1093/infdis/jiaa117>.
11. Gebretsadik, T., Cooper, W.O., Lijing, O., Thibadeau, J., **Markus, T.M.**, Cook, J., Tesfaye, S., Mitchel, E., Carroll, K.N. (2020). Rates of hospitalization for urinary tract infections among medicaid-insured individuals by spina bifida status, Tennessee 2005-2013. *Disability and Health Journal*. 100920. doi:10.1016/j.dhjo.2020.100920. PMID: 32402791.
12. Smithee, R.B., **Markus, T.M.**, Soda, E., Grijalva, C.G., Xing, W., Shang, N., Griffin, M.G., & Lessa, F.C. Pneumonia hospitalization coding changes associated with transition from the 9th to 10th revision of International Classification of Diseases (2020). *Health Services Research & Managerial Epidemiology*. 7, 2333392820939801. <https://doi.org/10.1177/2333392820939801>.
13. Raman, R., Brennan, J., Ndi, D., Sloan, C., **Markus, T.M.**, Schaffner, W., Talbot, H.K., (2020). Marked reduction of socioeconomic and racial disparities in invasive pneumococcal disease associated with conjugate pneumococcal vaccines, *The Journal of Infectious Diseases*. <https://doi.org/10.1093/infdis/jiaa515>.
14. Burke, R.M., Killerby, M., Newton, S., Ashworth, C., Berns, A., Brennan, S., Bressler, J., Bye, E., Crawford, R., Harduar-Morano, L., Lewis, N., **Markus, T.M.**, Read, J., Rissman, T., Taylor, J., Tate, J.E., and Midgley, C. (2020). Symptom profiles of COVID-19 cases – United States, January – April 2020. *Mortality Morbidity Weekly Report*. 69:904–908. DOI: <http://dx.doi.org/10.15585/mmwr.mm6928a2>.
15. Haddadin, Z., Beveridge, S., Fernandez, K., Rankin, D.A., Probst, V., Spieker, A.J., **Markus, T.M.**, Stewart, L.S, Schaffner, W., Lindegren, M-L., and Halasa, N. Respiratory syncytial virus disease severity in young children. 2020 Oct 23:ciaa1612. doi: 10.1093/cid/ciaa1612. Epub ahead of print. PMID: 33095882.
16. Hamdan, L., Vandekar S., Spieker A.J., Rahman H., Ndi, D., Shekarabi E.S., Thota J., Rankin, D.A., Zaid Haddadin¹, **Markus, T.M.**, Aronoff D.M, Schaffner, W., Gaddy J.A., Halasa, N.B. Epidemiological Trends of Racial Disparities in Early- and Late-Onset Group B. *Clin Infect Dis*. 2020 Oct 8:ciaa1511. doi: 10.1093/cid/ciaa1511. Epub ahead of print. PMID: 33031511.

Manuscripts in Preparation/Submission

1. Elie, A., **Markus, T.M.**, Ndi, D., Wei, Y., Schaffner, W., & Talbot, H.K. Infant outcomes following maternal influenza during pregnancy, Tennessee. (in preparation)
2. Beveridge, S., Piya, B., Stewart, L., Lindegren, M.L., **Markus, T.M.**, Schaffner, W., Halasa, N. Lower Viral Loads are Observed with Virus Co-detection in Children with Acute Respiratory Illness. (in preparation)
3. Halasa, N., Piya, B., Osmundson, S., **Markus, T.**, Ndi, D., and Schaffner, W. Demographic and Clinical Characterization differences among Early and Late-onset GBS cases in Tennessee. (submitted)

Presentations (published abstracts)

1. **Markus, T.**, Mukina, S. & Golden, A. Significant psychology score increases from pretest to post-test. Poster presented at the 10th Annual Convention of the American Psychological Society, Washington, DC, May 1998.
2. Mukina, S., Grah, C., **Markus, T.** & Minniehan, D. Individual differences in implicit memory. Poster presented at the 45th Annual Meeting of the Southeastern Psychological Association, Savannah, GA, March 1999.
3. Mukina, S., **Markus, T.**, Minniehan, D., & Golden, A. Demographic trends across disciplines: An eleven-year study. Poster presented at the 11th Annual Convention of the American Psychological Society, Denver, CO, June 1999.
4. **Markus, T.**, Hassert, D., & Jensen, R. Reduction of anxiety-related behaviors in rats by electrical stimulation of the vagus nerve. Poster presented at the 30th Annual Meeting for the Society for Neuroscience, New Orleans, LA, November 2000, Vol. 26:2.
5. **Markus, T.** & Golden, A. Divided attention: Implications for cellular telephone use while driving. Poster presented at the 13th Annual Convention of the American Psychological Society, Toronto, Ontario, June 2001.
6. **Markus, T.M.**, Bollnow, M.R., Farrer, R.G., Schwab, M.E., Kartje, G.L. & DeVries, G.H. Functional recovery following focal demyelination and Nogo-A blockade. Poster presented at the 33rd Annual Meeting for the Society for Neuroscience, New Orleans, LA, November 12, 2003.
7. **Markus, T.M.**, Bollnow, M.R., Farrer, R.G., Schwab, M.E., Kartje, G.L. & DeVries, G.H. Promoting neuroplasticity and functional recovery following focal demyelination and Nogo-A blockade. Talk given at the 2004 American Association of Anatomists Annual Meeting, Washington, DC, April 18, 2004.
8. Tsai, S-Y, **Markus, T.M.**, Bollnow, M.R., Farrer, R.G., Mir, A.K., Schwab, M.E., & Kartje, G.L. Effects of delayed Nogo-A blockade on recovery of function after stroke in the aged rat. Poster presented at the 2004 American Society for Neurochemistry Annual Meeting, New York, August 14-19, 2004.
9. **Markus, T.M.**, Bollnow, M.R., Farrer, R.G., Schwab, M.E., Kartje, G.L. & DeVries, G.H. Effects of Nogo-A neutralization after a focal demyelinating lesion. Poster presented at the 35th Annual Meeting for the Society for Neuroscience, Washington DC, November 12, 2005.
10. Tsai, S-Y, **Markus, T.M.**, Andrews, E.M., Cheatwood, J.L., Farrer, R.G., Mir, A.K., Schwab, M.E., & Kartje, G.L. Functional recovery in rats receiving delayed intrathecal anti-nogo-a treatment after stroke. Poster presented at the 35th Annual Meeting for the Society for Neuroscience, Washington DC, November 12, 2005.
11. Chen, L., Turner, G.H., **Markus, T.M.**, Friedman, R.M., Gore, J.C., Avison, M.J., & Roe, A.W. Fine fingerpad topography in squirrel monkey SII cortex revealed by high field fMRI. Program Number 212.2. Atlanta, GA: Society for Neuroscience, 2006.

12. Zhang, N., Chen, L., **Markus, T.**, Baheza, R., Roe, A.W., Avison, M., & Gore, J.C. Consistent negative BOLD responses in SI of primate cortex produced by tactile stimulation. Berlin, Germany. International Society for Magnetic Resonance in Medicine, 2007.
13. Zhang, N., Chen, L., **Markus, T.**, Baheza, R., Roe, A.W., Gore, J.C., & Avison, M. Relationship of BOLD response in SI of primate cortex to intensity of tactile stimulation. Berlin, Germany. International Society for Magnetic Resonance in Medicine, 2007.
14. Meluch, A.A., Spigel, D.R., Burris, H.A., Greco, F.A., Gandhi, J., Crane, E., **Markus, T.M.**, & Hainsworth, J.D. Vinflunine (VFL) as salvage chemotherapy in hormone-refractory prostate cancer (HRPC). American Society of Clinical Oncology, Chicago, May 30-June 3, 2008.
15. Shipley, D., Spigel, D.R., Hainsworth, J.D., Whorf, R., **Markus, T.M.**, Kuzur, M., Infante, J., Yardley, D.A., Burris, H.A., & Greco, F.A. Phase II trial of high-dose topotecan in patients with relapsed small-cell lung cancer (SCLC). American Society of Clinical Oncology, Chicago, May 30-June 3, 2008.
16. Waterhouse, D.M., Mainwaring, M., Barton, J., Webb, C., **Markus, T.M.**, Spigel, D.R., Infante, J., Hainsworth, J.D., Greco, F.A., & Yardley, D.A. Phase II pilot results of imatinib mesylate with weekly docetaxel in metastatic breast cancer. Poster presented at the 44th Annual Meeting for the American Society of Clinical Oncology, Chicago, May 30-June 3, 2008.
17. Greco, F., Hainsworth, J.D., Gandhi, J., Peyton, J.D., **Markus, T.M.**, Jones, S., Graham, P., Burris, H.A., & Spigel, D.R. Phase II trial of weekly topotecan with carboplatin in the first-line treatment of patients with extensive-stage small cell lung cancer. Poster presented at the Annual Meeting for the Multi-Disciplinary Symposium in Thoracic Oncology, Chicago, November 13-15, 2008.
18. Spigel, D.R., Molthrop, D., Peacock, N., Kommor, M., **Markus, T.M.**, Vazquez, E., Greco, F.A., Burris, H.A., Hainsworth, J.D., & Yardley, D.A. A pilot study of adjuvant doxorubicin and cyclophosphamide followed by paclitaxel plus sorafenib in women with node positive or high-risk breast cancer. San Antonio Breast Cancer Symposium, San Antonio, December 10-14, 2008.
19. McKay, C.E., Infante, J., Jones, S., Bendell, J., Greco, F., **Markus, T.M.**, Spigel, D.R., Yardley, D., Woudenberg, J., Burris, H.A., & Lathia, C.D. A pharmacokinetic (PK) and safety study of sorafenib plus capecitabine in advance solid tumors. American Society of Clinical Oncology, Orlando, May 29-June 2, 2009.
20. Lamar, R.E., Spigel, D.R., Burris, H.A., **Markus, T.M.**, Kuzur, M., Ervin, T., Fichtel, L., Greco, F., & Hainsworth, J.D. Phase II trial of radiation therapy/temozolomide followed by temozolomide/sorafenib in the first-line treatment of glioblastoma multiforme (GBM). Poster presented at the 45th Annual Meeting for the American Society of Clinical Oncology, Orlando, May 29-June 2, 2009.
21. Tate, J.A., Davis, M.E., **Markus, T.M.**, Raj, V., & Lenihan, D.J. Patient Health Questionnaire-9 Correlates with Kansas City Cardiomyopathy Questionnaire and Minnesota Living with Heart Failure Questionnaire in Measuring Heart Failure Patient Well-Being and Predicting Outcomes. American Heart Association, Los Angeles, November 2012.

22. Ellis, C., **Markus, T.**, Dickerman, D., Orton, J.M., Hassan, S., Good, E., Okabe, T., & Greenspon, A. Multi Center Study of CRT-D Pulse Generator Battery Longevity. Heart Rhythm Annual Conference, San Francisco, May 2014.
23. Ellis, C., **Markus, T.**, Dickerman, D., Orton, J.M., Hassan, S., Good, E., Okabe, T., & Greenspon, A. Multi Center Study of CRT-D Pulse Generator Battery Longevity. Cardiostim Annual Conference, Nice, France, June 2014.
24. Phillips, V., Hout, B., Ndi, D., **Markus, T.**, Fannesbeck, C., Lindegren, M.L., Schaffner, W., Halasa, N. Early Onset vs. Late Onset Group B Streptococcus Disease (GBS) in Tennessee. Poster presented at the Annual Pediatric Academic Societies (PAS), Baltimore, Apr 30 - May 03, 2016.
25. Ndi, D., Jones, C., McMinn, T., Eady, M., **Markus, T.** Socioeconomic Disparities and Late Onset Group B Streptococcus in Tennessee, 2010-2014. Poster presented at the Annual Meeting for the Society for Clinical Research Associates, Montreal, Sept. 29-Oct. 2, 2016.
26. Gebretsadik, T., Cooper, W.O., Lijing, O., Thibadeau, J., **Markus, T.M.**, Cook, J., Tesfaye, S., Mitchel, E., Carroll, K.N. Population-based rates of urinary infection hospitalizations by spina bifida status in Tennessee Medicaid, 2005-2013. Poster presented at the Spina Bifida World Congress, San Diego, March 16-19, 2017.
27. Beveridge, S., Piya, B., Stewart, L., Lindegren, M.L., **Markus, T.M.**, Schaffner, W., Halasa, N. Comparison of RSV Viral Loads in Children seen in Emergency Department to those Hospitalized. Poster presented at the Pediatric Academic Societies, San Francisco, May 6-9, 2017.
28. Beveridge, S., Piya, B., Stewart, L., **Markus, T.M.**, Lindegren, M.L., Schaffner, W., Halasa, N. Comparison of Viral Loads in Patients with Co-infections vs. Single-virus Infections. Poster presented at the Infectious Disease Week, San Diego, October 4-7, 2017.
29. Halasa, N., Piya, B., Osmundson, S., **Markus, T.**, Ndi, D., and Schaffner, W. Demographic and Clinical Characterization differences among Late-onset GBS cases in Tennessee. Poster presented at the Infectious Diseases Society for Obstetrics and Gynecology, Philadelphia, August 2-4, 2018.
30. Beveridge, S., Piya, B., Stewart, L., Lindegren, M.L., **Markus, T.M.**, Schaffner, W., Halasa, N. Lower Viral Loads are Observed with Virus Co-detection in Children with Acute Respiratory Illness. Poster presented at Infectious Disease Week, San Francisco, October 3-7, 2018.
31. Dobrzynski, D., Ndi, D., **Markus, T.M.**, Zhu, Y., Schaffner, W., Talbot, H.K. Hospital Readmissions following Laboratory-confirmed Influenza. Poster presented at Infectious Disease Society of America, San Francisco, October 3-7, 2018.
32. Thota, J., Spieker, A.J., Stewart, L.S., **Markus, T.M.**, Lindegren, M.L., Schaffner, W., Halasa, N.B. Comparison of single-virus detection vs. co-detection in children with acute respiratory illnesses. Poster presented at the Pediatric Infectious Diseases Research Conference, Memphis, March 13-14, 2019.

33. Probst, V., Stewart, L.S., **Markus, T.M.**, Lindegren, M.L., Schaffner, W., Halasa, N.B. Adenovirus types in children with acute respiratory illness. Poster presented at Annual Conference on Vaccinology Research, Baltimore, April 3-5, 2019.
34. Thota, J., Spieker, A.J., Stewart, L.S., **Markus, T.M.**, Lindegren, M.L., Schaffner, W., Halasa, N.B. Comparison of single viral detection vs. co-detection in children with acute respiratory illnesses. Poster presented at the Annual Conference on Vaccinology Research, Baltimore, April 3-5, 2019.
35. McMinn, T., Barnes, B., Ndi, D., & **Markus, T.M.** Invasive Group A Streptococcus (*S. pyogenes*) and intravenous drug use in Tennessee, 2013-2017. Poster presented at the Annual Meeting for the Society for Clinical Research Associates, San Antonio, Sept. 27-29, 2019.
36. Pemmaraju, D., **Markus, T.M.**, Ujwok, J., Ndi, D., Leib, K., McMinn, T., Swain, A., Dyer, K., Zhu, Y., Schaffner, W., Talbot, H.K. Length of Hospitalization and Outcomes of Coronavirus Disease 2019 (COVID-19) in Tennessee – Preliminary Report. Poster presented at the Annual Meeting for the Society for Clinical Research Associates, Virtual Conference, Sept. 23-26, 2020.

AD-HOC REVIEWS

1. *Brain Research*.
2. *Journal of Neuroimmunology*.