

## **Ann-Catherin (Annie) N. Simpson, PhD**

Medical University of South Carolina (MUSC)  
Department of Healthcare Leadership and Management  
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### **EDUCATION**

2012	PhD Health and Rehabilitation Science- Health Services Research (honors)	Medical University of South Carolina, Charleston, South Carolina
2008-2010	No degree Biostatistics PhD Program (63 credits)	Medical University of South Carolina, Charleston, South Carolina
2002	MSc Computer Science-Info Processing	University of York, York, United Kingdom
1998	BS Statistics (cum laude)	North Carolina State University, Raleigh, North Carolina

### **FACULTY APPOINTMENTS**

2019-present	Associate Professor (with Tenure)	Department of Healthcare Leadership and Management; Otolaryngology – Head and Neck Surgery (secondary); Pediatrics (secondary), MUSC
2016-2018	Associate Professor	Department of Healthcare Leadership and Management; Otolaryngology – Head and Neck Surgery (secondary), MUSC
2014-2016	Assistant Professor	Department of Otolaryngology – Head and Neck Surgery (secondary), MUSC
2012-2016	Assistant Professor	Department of Healthcare Leadership and Management, MUSC
2012-present	Associate Graduate Faculty	College of Graduate Studies, MUSC
2003-2012	Faculty Research Associate	Department of Biostatistics and Epidemiology, MUSC

### **ADMINISTRATIVE/LEADERSHIP EXPERIENCE**

July 2019 - present	Co-Director, Health and Rehabilitation Sciences PhD Program	Department of Health Sciences and Research College of Health Professions, MUSC
Jan 2019 - present	Deputy Director, Center on Aging	Medical University of South Carolina

### **OTHER TRAINING AND PROFESSIONAL EXPERIENCE**

June 2016	Health Economics Evaluation Summer Workshop; Advanced Methods for Cost Effectiveness Analysis	University of York, UK
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2002-2003	Manager, Clinical Data Management	Pharmaceutical Products Development (PPD), Morrisville, NC
1999-2001	Data Manager	The Clinical Innovation Group, MUSC, Charleston, SC
1998-1999	Technology Analyst	Andersen Consulting, San Francisco, CA

### **ONGOING RESEARCH SUPPORT**

**R01 HS028284-01** (Simpson, K. /King, K. Co-PIs) [01/01/21- 12/31/22]  
**AHRQ** \$335,126 Annual Direct Costs  
 Leveraging Health System Telehealth and Informatics Infrastructure to Create a Continuum of Services for COVID-19 Screening, Testing, and Treatment: A Learning Health System Approach  
 This study employs a rapid cycle, mixed-methods approach to describe, evaluate, and distill evidence of what was ultimately successful in a health system's telehealth response to COVID-19. We will "probe" for any unintended consequences of changes brought on by the pandemic itself and of changes due to differential effect of our digital intervention on high-risk and underserved populations.  
 Role: Co-Investigator

**1R03HS026783-01A1** (Andrews, A.) [09/01/19-08/29/21]  
**AHRQ** \$37,161  
 Medication Adherence Monitoring at the Point of Care: Pediatric Asthma as a Test Case  
 The purpose of this project is to examine the sensitivity and specificity of using the Asthma Medication Ratio (AMR) risk prediction tool against three other methods to identify high risk asthmatic children. The project will also examine the feasibility of using the prescription reporting tool within EPIC as a method to calculate the AMR for "real-time" risk communication.  
 Role: Co-Investigator

**U01** (Lenert, L., PI) [09/01/19 – 08/30/23]  
**NIH** \$587,605 ANNUAL DIRECT COSTS  
 Enhancing Infrastructure for Clinical and Translational Research to Address the Opioid Epidemic  
 The goal of this multi-center study is to develop a feasible and effective means of monitoring opioid-related OD presentation in EDs across the country that leverages existing NCATS investments in ACT to inform point-of-care service delivery, prevention and treatment intervention development and evaluation.  
 Role: Co-Investigator

**P50 DC00422-26** (Dubno, J., PI) [10/01/19 – 08/30/23]  
**NIH/NIDCD** \$2,373,690  
 Experimental and Clinical Studies of Presbycusis (Core B, Human Subjects)  
 The goal of the projects under the renewal of this P50 will be to continue to study the pathology of age-related hearing loss (presbycusis) in the human inner ear.  
 Role: Co-Investigator (MUSC Project #81635)

**U54 GM10494** (Binder McLeod, PI) [09/25/13-05/31/23]  
**Delaware Clinical and Translational Research Program (DE-CTR)** \$319,426 Annual Direct Costs  
 The overall goal the Delaware CTR is to provide a research infrastructure for clinical and translational research. MUSC is the out-of-state participant in a Delaware consortium. The objective of this infrastructure grant is to build the translational research infrastructure at each institution and establish new collaborative research relationships between investigators from MUSC and the University of Delaware-led consortium.

Role: Biostatistics Epidemiology and Research Design Core (BERD) Member

**5 P20 GM109040** (Kautz, PI) [06/02/14-03/31/24]

NIH/NIGMS \$1,447,947 Annual Direct Costs

South Carolina Research Center for Recovery from Stroke (SCRCRS)

The overall objective of this project is to establish a sustainable thematic multidisciplinary translational research center focused on investigating ways to understand the mechanisms of recovery from stroke in order to individualize effective therapies and improve outcomes.

Role: Co-Investigator

**ACCEL Pilot Grant** (Sterba, PI) [07/01/20-06/30/21]

Institutional Development Award (IDeA) from the National Institute of General Medical Sciences of the NIH through the Delaware CTR ACCEL program \$80,000

Enhancing Equity in Serious Illness Communication: A Mixed Methods Implementation Study

Submitted: March 2020 (awarded July 2020)

Role: Co-Investigator

**U66RH31458** (Ford, D and Kristaldi, K, Co-PIs) [09/30/17-09/29/21]

**Health Resources & Services Administration** \$869,173 Annual Direct Costs

Telehealth Center of Excellence (COE)

The goal is for the MUSC COE to use its collective expertise in telehealth program development and delivery, organization of healthcare coalitions, and innovative network development to address three universal impediments to the wide-spread integration of telehealth services: (1) Impact of telehealth on federal and local healthcare spending; (2) Provider and patient engagement in telehealth; (3) Open-access network evaluation and best practice dissemination.

Role: Co-Investigator

**NIH/NHLBI U01HL123033** (Goodwin, Site PI) [05/01/2020-04/01/21]

**Prevention and Early Treatment of Acute Lung Injury (PETAL) Network**

**PETAL COVID-19 Observational Study (CORAL)**

The goal of this study is to create a nation-wide, multi-center registry of clinical data and biospecimens from patients admitted with COVID-19 in order to characterize outcomes, risk factors and biological mechanisms of the disease.

Role: Database Consultant

**Internal Support** (Basco, PI) [10/01/18-09/30/20]

**Collaborative Support for Division of General Pediatrics**

Biostatistics and Health Services Research Consultant, MUSC Div. General Pediatrics

The purpose of this funding is to assist in study design, research grant writing, manuscript writing and data analysis for the Division of General Pediatrics with particular focus on K-award pilot project support and mentoring for fellows and faculty scholarly work.

Role: Biostatistical Methodological Consultant (10% effort)

**Internal Support** (Boger, Director) [01/01/19 – 12/31/20]

MUSC Center on Aging

The Center on Aging is a research, service, and education center at the Medical University of South Carolina.

Role: Deputy Director (10% effort)

## **COMPLETED RESEARCH SUPPORT**

**CCR31803** (Goodwin, A., Simpson, A., Co-PI) [12/1/18-03/30/20]  
**Carolina's Collaborative CTSA** \$75,000  
The purpose of this multi-center pilot project is to develop and validate a multi-center ventilator dependent respiratory failure (VDRF) computable phenotype to facilitate lung protective ventilation research using Electronic Health Records for multi-center research integration. (MUSC [COORDINATING CENTER], WAKE FOREST, UNC)  
Role: Co-Principal Investigator

**A201813113A** (McCauley, J) [11/05/17-11/14/19]  
**SC DHHS**  
Access to Medication Addiction Therapy in the MUSC Emergency Department after Opioid Overdose  
The goal of this project is to implement a new immediate treatment access program for opioid addicted patients in the MUSC ED. The subproject that Dr. A. Simpson leads includes performing a cost of program analysis and estimation for long-term programmatic support via multiple reimbursement and funding strategies.  
Role: Co-Investigator

**P50 DC00422-26** (Dubno, J., PI) [01/01/14 – 12/31/18]  
**NIH/NIDCD**  
Experimental and Clinical Studies of Presbycusis (Core B, Human Subjects)  
The goal of the projects under the renewal of this P50 will be to continue to study the pathology of age-related hearing loss (presbycusis) in the human inner ear.  
Role: Co-Investigator (MUSC Project #81635)

**8B972** (Andrews, A. PI) [05/01/16-06/30/18]  
**Doris Duke Foundation**  
Translating the Asthma Medication Ratio to a Point of Care Tool  
The purpose of this funding is to supplement a K23 award by assessing the cost-effectiveness of using an Asthma Medication Ratio Risk tool during point of care to guide use of supplemental care for high-risk groups.  
Role: Co-Investigator

**PCS-1402-10867** (Morrisette, D., Site-PI) [07/01/15-06/30/18]  
**PCORI**  
Targeted Interventions to Prevent Chronic Low Back Pain in High Risk Patients: A Multi-Site Pragmatic RCT  
The goal of this study is to test combined screening and physical therapy in the primary care setting to prevent progression of acute back pain to a chronic condition.  
Role: Site Co-Investigator

**6426-SP** (Ford, D., PI) [12/01/13 – 11/30/17]  
**Duke Endowment**  
Critical Care Outreach TELE-ICU  
The goal of this project is to establish a Tele-ICU program for regional hospitals.  
Role: Co-Investigator (MUSC Project #8A360)

**1R21DC014031-01** (Simpson, A., PI) [06/01/14-05/31/17]  
**NIH/NIDCD**  
Age-related Hearing Loss: Health Services Utilization and Outcomes  
This project uses medical care administrative insurance billing data from older adults to compare accepted medical care quality measures between propensity-score matched patients with and without hearing loss.

Role: Principal Investigator

**Collaborative Support for Department of Pediatrics** (Andrews, A., PI) [07/01/14-06/30/16]

Health Services Research Consultant to the Quality and Safety Group

The purpose of this funding is to assist in research grant writing, manuscript writing and data analysis for the Department of Pediatrics with particular focus on K-award pilot project support and mentoring for Assistant Professor (now Associate Professor 2017) Annie Andrews at the Medical University of South Carolina.

Role: Consultant

**R01 U01 DK074739-01A1** (Cotton, P., PI) [07/01/11-06/30/15]

**NIH/NIDDK**

Evaluating Predictors and Interventions in Sphincter of Oddi Dysfunction (EPISOD)

The goal of this clinical trial is to compare two treatments for Sphincter of Oddi Dysfunction and to perform a cost effectiveness analysis based on the findings and quality of life measurements.

Role: Co-Investigator (MUSC Project #89095)

**H12.Virology.25** (Simpson, K., PI) [11/26/12-03/12/14]

**Abbott Laboratories**

Pregnancy & Treatment Adherence in Hepatitis C Virus (HCV) Infected Women of Child-bearing Age

The goals are to identify the incidence of pregnancy among Medicaid and MEDSTAT women who are HCV positive and compare HCV treatment rates.

Role: Co-Investigator

**Corporate Project** (Simpson, K., PI) [03/11/13-03/10/14]

**Neuronetics, Inc.**

Economic Model of TMS

The goal is to update the results from a previously published economic model of Transcranial Magnetic Stimulation to assess the potential economic difference expected from the current protocol.

Role: Co-Investigator

**P50 DC00422-24 Supplement** (Dubno, J., PI) [06/01/12-05/31/13]

**NIH/NIDCD**

Experimental and Clinical Studies of Presbycusis with applications to Health Services

The goal of this administrative supplement is to assess the prevalence of diagnosed hearing loss in older adults, and hearing health care services access, cost, and utilization in the Medicare population. The study will also assess the feasibility of using archival data on quality of life impacts due to early interventions for age-related hearing loss.

Role: Health Services Researcher

**P50 DC00422-21A1S1** (Mills, PI; Dubno, Prg Dir) [07/17/09-06/30/12]

**NIH/NIDCD**

Experimental and Clinical Studies of Presbycusis (Core B, Human Subjects)

The primary function of Core B is the collection, storage, and analysis of medical and audiologic information from human subjects, and the recruitment of human subjects into the research program. This ARRA Clinical Infrastructure Supplement supports the addition of a database manager for enhancement of Core B database infrastructure.

Role: Biostatistician and Data Manager

**U01 NS077304-01** (Palesch, Y., PI) [08/01/11-07/31/13]

**NIH/NINDS**

Interventional Management of Stroke Phase III Trial – SDCC

The objective of the study is to provide data coordination and statistical expertise to a large randomized Phase III study, IMS III, to evaluate the efficacy of intravenous plus intra-arterial t-PA treatment for acute ischemic stroke.

Role: Health Services Researcher in Health Economic Evaluation

**R25 DA020537-06** (Back, S., Brady, K., Co-PIs)

[05/01/11-10/31/12]

**NIH/NIDA**

Drug Abuse Research Training (DART) Program

The goal of this research is to expand upon an established research track in the medical residency program in order to help increase the numbers of physician-scientists conducting clinical research.

Role: Biostatistics Advisor and Instructor

**UL1RR029882** (Brady, K., Halushka, P., Co-PIs)

[09/01/09-09/01/14]

**NIH**

South Carolina Clinical and Translational Research Institute (SCTR)

CTSA – Biomedical Informatics Office (REDCap Database)

The goal of this study is to support university-wide development of clinical research from the bench to the bedside. REDCap was adopted and supported to help investigators safely and easily manage their study data.

Role: Database designer and user support trainer for REDCap

**Cyberonics, Inc.** (Nihlas, Z., PI)

[01/10/07-01/09/08]

Modeling the antidepressant properties of Vagus Nerve Stimulation in the context of a 12 month placebo controlled study

Role: Co-Investigator

**U10 DA013727-10S3** (Brady, K., PI)

[10/01/03-08/31/10]

**NIDA/ORWH**

Southern Node of the Clinical Trials Network (CTN)

The goal of this program is to conduct studies of behavioral, pharmacological, and integrated behavioral and pharmacological treatment interventions of therapeutic effect in rigorous, multi-site clinical trials to determine effectiveness across a broad range of community-based treatment settings and diversified patient populations.

Role: Biostatistician

**P50 DA016511** (Brady, K., See, R., Co-PIs)

[09/15/03-06/30/12]

**NIDA/ORWH**

Specialized Center of Research (SCOR) on Sex and Gender Factors Affecting Women's Health

Investigation of gender difference in response to cocaine cues and laboratory stress manipulations among individuals with cocaine dependence.

Role: Biostatistician

**PUBLICATIONS:** (reverse chronological order)

\* Indicates research resulting from a student or faculty member that I mentored

**Dissertation and Thesis**

**Simpson AN** (2012). *Rehabilitation Utilization and the Marginal Cost of Ischemic Stroke in South Carolina* (Doctoral Dissertation). Retrieved from MEDICA: MUSC Electronics Document Initiative and Collected Archives, database <http://digital.library.musc.edu/cdm/singleitem/collection/medica/id/772/rec/5>

**Simpson AN** (2002) *Design of an HIV/AIDS Research Database: The Tension Between Theory and Practice* (Master's Thesis). University of York, Department of Computer Science Library, York, United Kingdom.

**Book Chapters**

1. **Simpson AN** and Simpson KN (2015). Chapter 11: Comparative Effectiveness in *Medical Epidemiology: Population Health and Effective Health Care*, Fifth Edition. Greenberg, Raymond (Ed). McGraw-Hill Education.

**Accepted or Published Peer Reviewed Journal Manuscripts:**

1. Dooley M\*, **Simpson AN**, Nietert PJ, Williams Jr D, & Simpson KN. (2021). Minimally important difference in cost savings: Is it possible to identify an MID for cost savings? *Health Services and Outcomes Research Methodology*. <https://doi.org/10.1007/s10742-020-00233-5>. In Press.
2. Dejardins M\*, Halstead L, **Simpson AN**, Flume P, Bonilha HS. (2020). Voice and Respiratory Characteristics of Men and Women Seeking Treatment for Presbyphonia. *Journal of Voice*, 2020, ISSN 0892-1997, <https://doi.org/10.1016/j.jvoice.2020.08.040>. E-published ahead of print.
3. Johnson SC\*, Williams DC, Brinton D, Chew M, **Simpson AN**, Andrews A (2020). A Cost-comparison of Infliximab vs Intravenous Immunoglobulin for Refractory Kawasaki Disease Treatment. *Hospital Pediatrics*. (accepted)
4. Dejardins M\*, Halstead L, **Simpson AN**, Flume P, Bonilha HS. (2020). Respiratory muscle strength training to improve vocal function in patients with presbyphonia. *Journal of Voice*. E-published ahead of print.
5. Dejardins M\*, Halstead L, **Simpson AN**, Flume P, Bonilha HS. (2020). The impact of respiratory function on voice patients with presbyphonia. *Journal of Voice*. E-published ahead of print.
6. Sterba KR, Johnson EJ, Nadig N, **Simpson AN**, Simpson K, Zapka J, Warr E, Beeks R, Ford D (2020). Determinants of Evidence-Based Practice Uptake in Rural Intensive Care Units: A Mixed Methods Study. *Annals of the American Thoracic Society*. (In Press)
7. Fitzgerald D\*, Ferraris V, **Simpson AN**, Baker R, Wu X, Zhang M, Thompson MP, Paone G, Delucia A, Likosky DS (2020). Determinants of Hospital Variability in Perioperative Red Blood Cell Transfusions During Coronary Artery Bypass Graft Surgery. *Journal of Thoracic and Cardiovascular Surgery*. (In Press) [Received DHA Dissertation of the Year Award]

8. **Simpson AN**, Harvey JB, DiLembo SM, Debenham E, Holmstedt CA, Robinson CO, Simpson KN, Almallouhi E, Ford DW. (2020). Population Health Indicators Associated with a State-wide Tele-Stroke Program. *J Telemed J E Health*. 2020 Feb 11. doi: 10.1089/tmj.2019.0204. [Epub ahead of print]
9. Guille C, **Simpson AN**, Douglas E, Boyars L, Cristaldi K, McElligott J, Johnson D, Brady K. (2020). Treatment of Opioid Use Disorder in Pregnant Women via Telemedicine: A Nonrandomized Controlled Trial. *JAMA Netw Open*. 2020;3(1):e1920177. doi:10.1001/jamanetworkopen.2019.20177
10. Cassarly C\*, Matthews LJ, **Simpson AN**, Dubno JR (2020). The Revised Hearing Handicap Inventory and Screening Tool Based on Psychometric Reevaluation of the Hearing Handicap Inventories for the Elderly and Adults. *Ear and Hearing*. 41(1):95–105, JANUARY/FEBRUARY 2020 DOI:10.1097/AUD.0000000000000746, PMID: 31124792
11. MacGeorge CA\*, Cristaldi K, **Simpson AN**, Abramson E, Bundy D, McElligott J (2019). Comparison of Adherence to Attention-Deficit/Hyperactivity Disorder Guidelines between School-Based Health Centers and an Academic Continuity Clinic. *J Sch Health*. 2019 Dec;89(12):953-958. doi: 10.1111/josh.12836. Epub 2019 Oct 14. PubMed PMID: 31612499.
12. Andrews AL, Brinton DL, Simpson KN, **Simpson AN** (2019). A Longitudinal Examination of the Asthma Medication Ratio in Children with Medicaid. *J Asthma*. 2019 Jul 17;:1-9. doi: 10.1080/02770903.2019.1640727. [Epub ahead of print] PubMed PMID: 31313611; PubMed Central PMCID: PMC6980515.
13. **Simpson AN**, Matthews LJ, Cassarly C, Dubno JR (2019). Time from Hearing Aid Candidacy to Hearing Aid Adoption: A Longitudinal Cohort Study. *Ear Hear*. 2019 May/Jun;40(3):468-476. doi: 10.1097/AUD.0000000000000641. **[Publication of Year Finalist from the Journal of Ear and Hearing]**
14. Brinton DL\*, **Simpson AN**, Fominaya CE, LaRue AC. (2019). Impact of Selective Serotonin Reuptake Inhibitors in the veteran population: 10-year risk outcomes. *J Comp Eff Res*. 2019 Apr;8(6):431-440. doi: 10.2217/ce-2018-0085. Epub 2019 Mar 11.
15. Cassarly C\*, Matthews LJ, **Simpson AN**, Dubno JR (2019). Development and refinement of patient-reported outcomes for hearing: A brief introduction to nonparametric item response theory. *American Journal of Audiology*, 28, 806–809. [https://doi.org/10.1044/2018\\_AJA-HEAL18-18-0167](https://doi.org/10.1044/2018_AJA-HEAL18-18-0167)
16. Karp EL\*, Freeman R, Simpson KN, **Simpson AN** (2019). Changes in Efficiency and Quality of Nursing Electronic Health Record Documentation After Implementation of an Admission Patient History Essential Data Set. *Comput Inform Nurs*. 2019 Feb 21. doi: 10.1097/CIN.0000000000000516. [Epub ahead of print] PubMed PMID: 30807297.
17. Nowling TK, McClure E, **Simpson AN**, Sheidow AJ, Shaw D, Feghali-Bostwick C (2018). A Focused Career Development Program for Women Faculty at an Academic Medical Center. *J Womens Health* (Larchmt). 2018 Sep 22. doi: 10.1089/jwh.2018.6937. [Epub ahead of print] PubMed PMID: 30251910.
18. Simpson KN, Seamon BA, Hand BN, Roldan CO, Taber DJ, Moran WP, **Simpson AN** (2018). Effect of frailty on resource use and cost for Medicare patients. *J Comp Eff Res*. 2018 May 29. doi: 10.2217/ce-2018-0029. [Epub ahead of print] PubMed PMID: 29808714.



19. Hong I\*, **Simpson AN**, Simpson KN, Brotherton SS, Velozo CA. (2018). Comparing disability levels for community-dwelling adults in the United States and the Republic of Korea using the Rasch model. *Journal of Applied Measurement*, 19(2), 114-128. PubMed PMID: 29894982.
20. **Simpson AN**, Simpson KN, Dubno JR (2018). Healthcare Costs for Insured Older U.S. Adults with Hearing Loss. *J Am Geriatr Soc*. 2018 Aug;66(8):1546-1552. doi: 10.1111/jgs.15425. Epub 2018 May 24. PubMed PMID: 29797584; PubMed Central PMCID: PMC6167139.
21. Andrews AL\*, Brinton D, Simpson KN, **Simpson AN** (2018). A longitudinal Examination of the Asthma Medication Ratio in Children. *American Journal of Managed Care*, 2018; 24(6);400-406.
22. Wilmskoetter J\*, **Simpson AN**, Logan S, Simpson KN, Bonilha HS (2017). Impact of gastrostomy feeding tube placement on the one-year trajectory of care in working age, privately insured patients after stroke. *Nutr Clin Pract*. 2018 Feb 3. doi: 10.1002/ncp.10015. [Epub ahead of print] PubMed PMID: 29397032.
23. **Simpson AN**, Wilmskoetter J, Hong I, Li CY, Jauch EC, Bonilha HS, Anderson K, Harvey J, Simpson KN (2018). Stroke Administrative Severity Index: using administrative data for 30-day poststroke outcomes prediction. *J Comp Eff Res*. 2018 Apr;7(4):293-304. doi: 10.2217/ce-2017-0058. Epub 2017 Oct 23. PubMed PMID: 29057660.
24. Li CY\*, Romero S, **Simpson AN**, Bonilha HS, Simpson KN, Hong I, & Velozo CA. (2017). Functional Independence Measure - Minimum Data Set Motor Item Bank: Short Forms Development and Precision Comparison in Veterans. *Arch Phys Med Rehabil*. 2017 Jul 26. pii:S0003-9993(17)30488-4. doi: 10.1016/j.apmr.2017.06.022. [Epub ahead of print] PubMed PMID: 28756249.
25. Li CY\*, Romero R, Simpson KN, **Simpson AN**, Bonilha H, Hong I, & Velozo C. (2017). Linking Existing Instruments to Develop a Continuum of Care Measure: Accuracy Comparison using Functional Related Group Classification. *Qual Life Res*. 2017; 26(9);2563-2572. doi: 10.1007/s11136-017-1598-1. PubMed PMID: 28540495.
26. Simpson KN, **Simpson AN**, Mauldin PD, Hill MD, Yeatts SD, Spilker JA, Foster LD, Khatri, P, Martin R, Jauch EC, Kleindorfer D, Palesch YY, Broderick JP, for the IMS III Investigators (2017). Observed Cost and Variations in Short Term Cost-effectiveness of Therapy for Ischemic Stroke in IMS III. *J Am Heart Assoc*. 2017 May 8;6(5). pii: e004513. doi: 10.1161/JAHA.116.004513. PubMed PMID: 28483774; PubMed Central PMCID: PMC5524059.
27. Adams SN, Abel M, Fowler D, Ebeling M, **Simpson AN**, Titus MO, Andrews AL (2017). Inhaled Corticosteroid Prescribing in a Pediatric Emergency Department: Sustained Success and Prescription Filling Rates. *J Asthma*. 2018 Mar;55(3):252-258. doi: 10.1080/02770903.2017.1323917. Epub 2017 May 26. PubMed PMID: 28548868; PubMed Central PMCID: PMC5702583.
28. Hong I\*, Dodds CB, Coker-Bolt P, **Simpson AN**, & Velozo CA (2017). How accurately do both parents and health professionals assess overweight in children? *Pediatric Physical Therapy*, 2017 Jul;29(3):283-285. doi: 10.1097/PEP.0000000000000403. PubMed PMID: 28654504.
29. Andrews AL\*, Bundy DG, Simpson KN, Teufel RJ, Harvey J, **Simpson AN** (2017). Inhaled Corticosteroid Claims and Outpatient Visits After Hospitalization for Asthma Among Commercially Insured Children. *Academic*

*Pediatrics*. 2017 Mar;17(2):212-217. doi:10.1016/j.acap.2016.10.016. PubMed PMID: 28259341; PubMed Central PMCID:PMC5515358.

30. Nadig N\*, Goodwin AJ, **Simpson AN**, Simpson KN, Richards J, Ford DW (2017). Patient and hospital characteristics associated with inter-hospital transfer in ventilator dependent respiratory failure. *Ann Am Thorac Soc*. 2017 May;14(5):730-736. doi: 10.1513/AnnalsATS.201611-918OC. PubMed PMID: 28199137; PubMed Central PMCID: PMC5427742.
31. Illagan G, Illagan J, **Simpson AN**, Shealy T, Bennet-Mintz J, McCormick K (2016). Outcomes from an Undergraduate Cadet Women's Backpacking Experience. *Research in Outdoor Education*. 14, 21-40. Cornell University Press.
32. Wilmskoetter J\*, **Simpson AN**, Simpson KN, Bonilha HS (2016). Practice Patterns of Percutaneous Endoscopic Gastrostomy Tube Placement in Acute Stroke: Are the Guidelines Achievable? *J Stroke Cerebrovasc Dis*. 2016 Nov;25(11):2694-2700. doi: 10.1016/j.jstrokecerebrovasdis.2016.07.017. Epub 2016 Jul 27. PubMed PMID: 27475521; PubMed Central PMCID: PMC5159285.
33. Li CY\*, Romero R, Bonilha H, Simpson KN, **Simpson AN**, Hong I, & Velozo C (2016). Linking Existing Instruments to Develop an Activity of Daily Living Item Bank. *Eval Health Prof*. 2018 Mar;41(1):25-43. doi: 10.1177/0163278716676873. Epub 2016 Nov 16. PubMed PMID: 27856680.
34. Hong I\*, Han A, Reistetter TA., & **Simpson AN** (2016). The risk of stroke in spouses of people living with dementia in Korea. *International Journal of Stroke*. 2017 Oct;12(8):851-857. doi: 10.1177/1747493016677987. Epub 2016 Nov 2. PubMed PMID: 27807277.
35. Hong I\*, **Simpson AN**, Logan S, Woo HS (2016). Longitudinal trends in fall accidents in community dwelling Korean adults: The 2008-2013 Korean Community Health Survey. *Annals of Rehabilitation Medicine*. 2016 Aug;40(4):657-65. doi: 10.5535/arm.2016.40.4.657. Epub 2016 Aug 24. PubMed PMID: 27606272; PubMed Central PMCID: PMC5012977.
36. Hong I\*, Aaron SE, Li CY, **Simpson AN** (2016). Physical activity and the risk of depression in community dwelling Korean adults with history of stroke. *Physical Therapy*. 2017 Jan 1;97(1):105-113. doi: 10.2522/ptj.20160011. PubMed PMID: 27515943.
37. Aaron SE\*, Gregory CM, **Simpson AN** (2016). Lower Odds of Post-Stroke Symptoms of Depression When Physical Activity Guidelines Met: NHANES 2011-2012. *Journal of Physical Activity and Health*. 2016 Aug;13(8):903-9. doi: 10.1123/jpah.2015-0446. Epub 2016 May 4. PubMed PMID: 27145542; PubMed Central PMCID: PMC5289216.
38. **Simpson AN**, Simpson KN, Dubno JR (2016). Higher health Care Costs in Middle-Aged US Adults With Hearing loss. *JAMA-Otolaryngology-Head & Neck Surgery*. 2016 Jun 1;142(6):607-9. doi: 10.1001/jamaoto.2016.0188. PubMed PMID: 27054903; PubMed Central PMCID: PMC4973508.
39. Hong I\*, **Simpson AN**, Li C, Velozo CA (2016). Development of an upper extremity function measurement model. *Journal of Applied Measurement*. 2016;17(3):302-311. PubMed PMID: 28027054.

40. Johnson EE\*, **Simpson AN**, Harvey JB, Simpson KN (2016). Bariatric Surgery Implementation Trends in the US from 2002-2012. *Implementation Science*. 2016 Feb 20;11:21. doi: 10.1186/s13012-016-0382-x. PubMed PMID: 26897023; PubMed Central PMCID: PMC4761154.
41. Ford DW, Goodwin AJ, **Simpson AN**, Johnson E, Nadig N, Simpson KN (2016). A Severe Sepsis Mortality Prediction Model and Score for Use with Administrative Data. *Crit Care Med*. 2016 Feb;44;2: 319-327. DOI: 10.1097/CCM.0000000000001392.
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45. Johnson EE\*, **Simpson AN**, Harvey JB, Lockett MA, Byrne KT, Simpson KN (2015). Trends in Bariatric Surgery, 2002-2012: Do Changes Parallel the Obesity Trend? *Surg Obes Relat Dis*. 2016 Feb;12(2):398-404. doi: 10.1016/j.soard.2015.07.009. Epub 2015 Jul 17. PubMed PMID: 26707931.
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emergency department. *Evid Based Med*. 2014 Oct;19(5):175. doi: 10.1136/eb-2014-110006. Epub 2014 Jun 10. PubMed PMID: 24919976.

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55. **Simpson AN**, Bonilha HS, Kazley AS, Zoller JS, Ellis C (2013). Marginal costing methods highlight the contributing cost of comorbid conditions in Medicare patients: A quasi-experimental case--control study of ischemic stroke costs. *Cost Eff Resour Alloc.*, 11: 29. (doi: 10.1186/1478-7547-11-29). PMCID: PMC3842820.
56. **Simpson AN**, Matthews LJ, Dubno JR (2013) Lipid and C-Reactive Protein Levels as Risk Factors for Hearing Loss in Older Adults. *Otolaryngol. Head Neck Surg.*, 148(4): 664-670. (doi: 10.1177/0194599812473936). PMID: PMC23322627.
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65. Spratt EG, Back SE, Yeatts SD, **Simpson AN**, McRae-Clark A, Moran-Santa Maria MM, Price KL, Hartwell KT, Brady KT (2009). Relationship between Child Abuse and Adult Smoking. *Int J Psychiatry Med* 39, 417-426. PMC3186351.
66. Williams N\*, **Simpson AN**, Simpson KN, Nahas Z (2009). Relapse rates with long term antidepressant drug therapy: A meta-analysis. *J Hum Psychopharmacol* 24, 401-408. PMID: PMC19526453.
67. Daniel R\*, Bourne R, **Simpson A**, O'Rourke K, Bolster M (2009). Predictors of Response to anti-TNF-alpha Therapies in Rheumatoid Arthritis. *Am J Pharmacy Benefits* 1, 81-88.
68. Brady KT, McRae AL, Moran-Santa Maria MM, DeSantis SM, **Simpson AN**, Waldrop AE, Back SE, Kreek MJ (2009). Response to Corticotropin-Releasing Hormone Infusion in Cocaine-Dependent Individuals. *Arch Gen Psychiatry* 66, 422-430. PMC2696287.
69. Back SE, Waldrop AE, Saladin ME, Yeatts SD, **Simpson AN**, McRae AL, Upadhyaya HP, Sisson RC, Spratt EG, Allen J, Kreek MJ, Brady KT (2008). Effects of Gender and Cigarette Smoking on Reactivity to Psychological and Pharmacological Stress Provocation. *Psychoneuroendocrinology* 33, 560-568. PMC2446474.

## NON-PEER REVIEWED INVITED LECTURES AND PRESENTATIONS (reverse chronological order)

1. Simpson AN. (2020, March). **Techniques for Reducing Bias using Propensity Scores**. Invited Lecture. BMTRY 748 – Epidemiology III, MUSC Department of Public Health Sciences, Charleston, SC.
2. Dincman S, Simpson A, Saef S, Price A. (2019). **Croup Patient Admission After Multi-Dose Racemic Epinephrine in the Pediatric ED** presented at: Darby Children's Research Institute & Pediatric Research Symposium; Charleston, SC.
3. Jennings L, Bogdon C, Ward R, Simpson A, Brady K. (2018, Oct). **Buprenorphine Induction in the Emergency Department for Patients with Opioid Use Disorder**. South Carolina Clinical & Translational Research Institute (SCTR) Scientific Retreat on Opioids Research. October 26th, 2018.
4. Simpson AN and Simpson KN. (2018, May). **Working with Medicare Data: Best Practices and Pitfalls**. Subsection on Using Propensity Scoring to Raise the Level of Evidence in Your Medicare Data Studies. ACCEL Grant Annual Meeting, University of Delaware and the Christiana Healthcare Value Institute. Newark, DE.
5. Simpson AN and Kirchoff K. (2018, April). **Generating Evidence to Drive Healthcare Decision-making**. Invited Talk. Spring 2018 College of Charleston, Department of Computer Science Spring Research Lecture Series. Charleston, SC.
6. Simpson AN. (2018, March). **Techniques for Reducing Bias using Propensity Scores**. Invited Lecture. BMTRY 748 – Epidemiology III, MUSC Department of Public Health Sciences, Charleston, SC.
7. Simpson AN. (2017, June). **Stats 101: How to get your data to talk ... and understand what they are saying?** Invited Lecture. MUSC Department of Clinical Neurosciences Drug Addiction Research Training (DART) Program, Charleston, SC
8. Simpson AN. (2016, June). **Stats 101: How to get your data to talk ... and understand what they are saying?** Invited Lecture. MUSC Department of Clinical Neurosciences Drug Addiction Research Training (DART) Program, Charleston, SC
9. Simpson AN. (2016, March). **Techniques for Reducing Selection Bias in Observational Studies using Propensity Scores**. Invited Lecture. BMTRY 748 – Epidemiology III, MUSC PhD in Biostatistics and Epidemiology, Charleston, SC.
10. Simpson AN. (2015, June). **Stats 101: How to get your data to talk ... and understand what they are saying?** Invited Lecture. MUSC Department of Clinical Neurosciences Drug Addiction Research Training (DART) Program, Charleston, SC
11. Simpson AN. (2015, May). **Using propensity score methods to combine multiple data sources in order to compare the effectiveness of transcranial magnetic stimulation (TMS) with antidepressant drug therapy in the treatment of major depression**. Invited talk. Research Rounds, Center for Health Care Research and Policy. Case Western Reserve University/Metro Health Hospital. Cleveland, OH.
12. Simpson AN. (2015, March). **Introduction to Cost-effectiveness Analysis**. Invited Lecture. HAP 722 Health Behavior and Epidemiology. MUSC MHA, Charleston, SC.

13. Simpson AN. (2015, March). **Evidence-Based Practice for Decision-Makers**. Invited Lecture. HAP 722 Health Behavior and Epidemiology. MUSC MHA, Charleston, SC.
14. Simpson AN. (2014, Dec.). **Is Evidence-Based Practice Just for Clinicians?** Invited Lecture. HAP 725 Statistical Analysis and Health Systems. MUSC MHA, Charleston, SC.
15. Simpson AN. (2013, Oct.). **Techniques for Reducing Bias and Propensity Scores II**. Invited Lecture. BMTRY 748 – Epidemiology III, MUSC PhD in Biostatistics and Epidemiology, Charleston, SC.
16. Simpson AN. (2013, Oct.). **The Magic of Pseudo-randomizing Observational Data**. Invited Presentation. Scientific Retreat on Comparative Effectiveness/Patient-Centered Outcomes Research MUSC SCTR Institute, Charleston, SC, October 2013.
17. Simpson AN. (2013, Oct.). **Techniques for Reducing Bias and Propensity Scores I**. Invited Lecture. BMTRY 748 – Epidemiology III, MUSC PhD in Biostatistics and Epidemiology, Charleston, SC, October 2013.
18. Simpson AN. (2012, June). **Multivariable Statistical Methods**. Invited Lecture. HRS 823 Critical Review of Statistical Methods. MUSC PhD in Health and Rehabilitation Sciences, Charleston, SC, June 2012.
19. Simpson AN. (2012, June). **Introduction to Analysis with SPSS**. Invited Lecture, MUSC Department of Clinical Neurosciences Drug Addiction Resident Training (DART) Program, Charleston, SC, June 2012.
20. Simpson AN. (2012, May). **Multivariable versus Multivariate Statistical Methods**. Invited Lecture. HRS 823 Critical Review of Statistical Methods. MUSC PhD in Health and Rehabilitation Sciences. Charleston, SC, May 2012.
21. Simpson AN. (2012, May). **Methods and Designs used in Health Services Research**. Invited Lecture, MUSC Biostatistics Collaborative Unit Quarterly Research Meeting, Charleston, SC, May 2012.
22. Simpson AN. (2012, Spring). **Understanding Clinical Research from Design to Analysis and Publication**. Invited Lecture Series, MUSC Department of Clinical Neurosciences Drug Addiction Research Training (DART) Program, Charleston, SC, Spring 2012. Four Sessions.
23. Simpson AN. (2012, Jan.). **Health Services Research and Hearing**. Invited Lecture, MUSC Hearing Research Seminar, Department of Otolaryngology and Head and Neck Cancer. Charleston, SC, January 2012.
24. Simpson AN. (2011, Nov.). **Introduction to RefWorks and reasons why you might want to switch from EndNote**. Sponsored by the University Education Infrastructure Committee and the Apple Tree Society, MUSC, Charleston, SC, November 2011.
25. Simpson AN. (2011, June). **Introduction to Analysis with SPSS**. Invited Lecture, MUSC Department of Clinical Neurosciences Drug Addiction Research Training (DART) Program, Charleston, SC, June 2011.
26. Simpson AN. (2011, June). **Power, Sample Size, and Effect Size**. Invited Lecture. HRS 823 Critical Review of Statistical Methods. MUSC PhD in Health and Rehabilitation Sciences, Charleston, SC, June 2011.
27. Simpson AN. (2011, May). **Parametric versus Non-parametric Analysis**. Invited Lecture. HRS 823 Critical Review of Statistical Methods. MUSC PhD in Health and Rehabilitation Sciences, Charleston, SC, May 2011.

28. Simpson AN. (2011, April). **Data Management Principles and EXCEL**. Invited Lecture, MUSC Div. of Biostatistics BMTRY 789 Computing for Research, Charleston, SC, April 2011.
29. Simpson AN. (2011, Feb.). **Information Architecture and Technologies**. Invited Lecture, MUSC, Department of Health Administration and Policy MHA Management and Health Information systems class, Charleston, SC, February 2011.
30. Simpson AN. (2011, Feb.). **Health Information Systems Standards and Security**. Invited Lecture, MUSC, Department of Health Administration and Policy MHA Management and Health Information systems class, Charleston, SC, February 2011.
31. Simpson AN. (2011, Jan.). **Introduction to SAS ODS**. Invited Lecture, MUSC Div. of Biostatistics BMTRY 789 Computing for Research, Charleston, SC, January 2011.
32. Simpson AN. (2010, Dec.). **REDCap 201**. Invited Seminar. MUSC university-wide. Sponsored by the University Education Infrastructure Committee and the Apple Tree Society, 12/01/2010 12-1pm.
33. Simpson AN. (2010, Nov.). **Power and Sample Size**. Invited Lecture, MUSC Department of Clinical Neurosciences Drug Addiction Resident Training (DART) Program. 11/16/10 9:00am-10:00am.
34. Simpson AN. (2010, April). **Introduction to REDCap**. Invited Seminar. MUSC university-wide. MUSC Tech Fair 2010. 4/7/2010 12-1pm.
35. Simpson AN. (2010, April). **Data Collection and Storage Implications in Clinical Studies**. 04/22/10 1:00pm-2:00pm; MUSC Department of Clinical Neurosciences Drug Addiction Research Training (DART) Program.
36. Simpson AN. (2009, March). **Data Collection and Storage Implications in Clinical Studies**. 03/24/09 9:00am-10:00am; MUSC Department of Clinical Neurosciences Drug Addiction Research Training (DART) Program.
37. Simpson AN. (2008, March). **Using n-Query to Calculate Power and Sample Size**. 03/11/2008 9:00am-10:00am; MUSC Department of Clinical Neurosciences Drug Addiction Research Training (DART) Program.
38. Simpson AN. (2007, June). **Introduction to Regression**. Invited lecture, College of Health Professions , 06/07/2007 3:30pm-4:50pm; MUSC Department of Health Administration and Policy Executive MHA Decision Analysis class.

#### **PEER-REVIEWED PRESENTATIONS** (reverse chronological order)

\*Indicates research resulting from a student or faculty member that was mentored

1. **Simpson AN**, Brinton D, Simpson KN, Ford D, Kirchoff K, Goodwin A. (January 2020). Harmonizing Multi-Site Electronic Health Records Data for Critical Care Comparative Effectiveness Studies: How do we ensure that data quality is equivalent to traditional clinical trials? 13<sup>th</sup> International Conference on Health Policy Statistics, San Diego, CA
2. Sterba KR, Johnson EE, Nadig NR, **Simpson AN**, Goodwin AJ, Simpson KN, Beeks R, Warr EH, Ford DW (Dec. 2019). Determinants of evidence-based practice uptake in community ICUs: A mixed methods study. Paper



presentation at the Annual Conference on the Science of Dissemination and Implementation, Washington DC, December 5, 2019.

3. **Simpson AN**, Simpson KN. (June 2018). Effect of Medicare Patients' Pre-Stroke Treatment-Seeking Behavior on 12-Month Outcomes Post Stroke. Academy Health's Annual Research Meeting. June 24-26, 2018, Seattle, WA.
4. Simpson KN, **Simpson AN**. (June 2018). Comparison of Charge to Payment Ratios Across States, Payers, and DRGs. Academy Health's Annual Research Meeting. June 24-26, 2018, Seattle, WA.
5. Brinton D\*, Harvey J, **Simpson AN**, Ford D, Simpson KN. (June 2018). Issues in using EMR data for severity adjustment for Quality Improvement studies: Baseline SOFA Scores in the ICU. Academy Health's Annual Research Meeting. June 24-26, 2018, Seattle, WA.
6. Greene LV\*, **Simpson AN**, Pereira A, Goodspeed S. (June 2018). Patient, Community, and Geographic Characteristics of Patients Hospitalized for Ambulatory Care Sensitive Conditions in the State of New Jersey in 2012. Academy Health's Annual Research Meeting. June 24-26, 2018, Seattle, WA.
7. Brinton D\*, Andrews A, **Simpson AN**. (June 2018). How sensitive are HEDIS measures to enrollment requirements among Medicaid pediatric patients? Academy Health's Annual Research Meeting. June 24-26, 2018, Seattle, WA.
8. **Simpson AN**, Simpson KN (January 2018). Using Conceptual Modeling to Plan and Execute Quasi-Experimental Studies. 12<sup>th</sup> International Conference on Health Policy Statistics, Charleston, SC
9. Brinton D\*, Andrews AL, **Simpson AN** (January 2018). How sensitive are findings to enrollment definition changes in Medicaid data? 12<sup>th</sup> International Conference on Health Policy Statistics, Charleston, SC
10. Brinton D\*, **Simpson AN**, Simpson KN (January 2018). Issues in using EMR data for severity adjustment: Baseline SOFA scores in the ICU. 12<sup>th</sup> International Conference on Health Policy Statistics, Charleston, SC
11. Nowling T, McClure E, **Simpson AN**, Shaw D, and Feghali-Bostwick C (October 2017). Increasing Representation of Women in Upper Ranks at a Medical School. National Science Foundation ADVANCE/GSE Program, Washington, D.C.
12. Dubno JR, **Simpson AN**, Matthews LJ (May 2017). Estimating time from hearing-aid candidacy to hearing-aid adoption. International Collegium of Rehabilitative Audiology (ICRA), Glasgow, Scotland, May, 2017.
13. **Simpson AN**, Simpson KN, Dubno JR. (June 2017). Healthcare Costs Are Substantially Higher in Insured Older US Adults with Hearing Loss. Oral presentation to Academy Health's Annual Research Meeting. June 26, 2017, New Orleans, LA.
14. Johnson EE\* (presenting author), **Simpson AN**, Harvey JB, Simpson KN (April 2017). Diffusion of A Surgical Innovation: Identifying Contextual Factors with Big Data. Lowcountry Nursing Research Conference, Charleston, SC.

15. Hutchison SD\*, Woodbury, ML, & **Simpson AN** (2017, March), The Impact of Reported ANXIETY and DEPRESSION on DISABILITY Following Stroke. Poster & Oral Presentation, Annual Conference of the American Occupational Therapy Association, Philadelphia, PA
16. Brinton DL\* (presenting author), **Simpson AN**, Fominaya CE, & LaRue AC (Nov. 2016). Impact of selective serotonin reuptake inhibitors (SSRIs) on bone health in the Veteran population: 10 year clinical outcomes. Oral presentation at the Perry V. Halushka MUSC Student Research Day, November 2016. **Awards:** 1<sup>st</sup> Place Winner—PhD IV Oral Presentation, Oral Presentation Winner—Interprofessional Collaboration Research Award
17. Hong I\* (presenting author), **Simpson AN**, Velozo CA, Kim MY, & Simpson KN (March 2017). The impact of the G-Code system on Medicare Part B rehabilitation payments for stroke: Do the g-codes reduce costs? March 31-April 2. Oral presentation at the 2017 AOTA Annual Conference & Centennial Celebration, Philadelphia, PA.
18. Dubno JR (presenting author), Matthews LJ, **Simpson AN**. (June, 2016). Barriers to early interventions: Estimating time from hearing-aid candidacy to hearing-aid adoption. Invited Presentation. Hearing Across the Lifespan (HEAL) Conference. Lake Como, Italy.
19. **Simpson AN** (presenting author), Simpson KN, Bonneh-Barkay D, Demitrack MA, Brock DG, (Oct 2015). Using Propensity Score Methods to Combine Multiple Data sources in order to Compare the Effectiveness of Transcranial Magnetic Stimulation (TMS) with Antidepressant Drug Therapy in the Treatment of Major Depression. *Contributed Presentation*. International Conference on Health Policy Statistics. Providence, RI.
20. Johnson EE\* (presenting author), **Simpson AN**, Harvey JB, Simpson KN (2015, June). Diffusion of a Surgical Innovation: Bariatric Surgery in the US from 2002-2012. Academy Health Annual Research Conference. Minneapolis, MN.
21. Simpson KN, **Simpson AN** (presenting author), Kirbach S, Gooch K (2013, May). The Burden of HCV to Insurers in the US: Trends in Healthcare Resource Utilization 2002-2012. International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA. May 18-22, 2013.

#### PEER-REVIEWED ABSTRACTS AND POSTERS (reverse chronological order)

\*Indicates research resulting from a student or faculty member that was mentored

1. **Simpson AN**, Sweetnam J, Brinton DL, Ford DW, Files DC, Bice T, Goodwin AJ. Multi-site validation of an EHR-based computable phenotype for ventilator dependent respiratory failure patients. Submitted for presentation to Academy Health Annual Research Meeting, June 2021, online (due to COVID-19).
2. Sweetnam J, Brinton DL, Ford DW, Files DC, Bice T, **Simpson AN**, Goodwin AJ. Multi-site validation of an EHR-based computable phenotype for ventilator dependent respiratory failure patients. Submitted for presentation to American Thoracic Society (ATS) International Conference, May 2021, San Diego, CA.
3. Carter G, **Simpson AN**, Brinton DL, Sweetnam J, Simpson K, Goodwin A. Electronic health record data suggest that tidal volumes of 8 cc/kg are sufficient to protect patients and improve outcomes. Submitted for presentation to American Thoracic Society (ATS) International Conference, May 2021, San Diego, CA.

4. Desjardins M\*, Halstead L, **Simpson A**, Flume P, Bonilha H. (2020). Baseline respiratory and laryngeal factors impacting response to voice therapy for presbyphonia. Pan American Vocology Association, Online due to COVID-19, August 13-16, 2020.
5. Desjardins M\*, Halstead L, **Simpson A**, Flume P, Bonilha H. (2020). Respiratory muscle strength training in presbyphonia. Voice Foundation Annual Symposium, Online due to COVID-19, May 27-31, 2020.
6. Desjardins M\*, Halstead L, **Simpson A**, Flume P, Bonilha H. (2020). Impact of Respiratory function on voice outcomes in patients with presbyphonia. Voice Foundation Annual Symposium, Online due to COVID-19, May 27-31, 2020.
7. Brinton D, **Simpson AN**, Simpson KN, Andrews AL. (2020) Special Issue Abstract: A Markov transition model for estimating the impact of pediatric asthma medication adherence on healthcare utilization and cost. Health Services Research. 55(S1): 88-89. doi:10.1111/1475-6773.13455 Link: <https://onlinelibrary.wiley.com/doi/abs/10.1111/1475-6773.13455>
8. Johnson SC, Williams DC, Brinton D, Chew M, **Simpson AN**, Andrews A. (May 2020) A Cost-comparison of Infliximab vs Intravenous Immunoglobulin for Refractory Kawasaki Disease Treatment. Pediatric Hospital Medicine Meeting, Lake Buena Vista, FL. Due to COVID-19 related conference cancellation, this peer-reviewed abstract was disseminated PHM 2020 Meeting Program Guide.
9. Johnson SC, Williams DC, Brinton D, Chew M, **Simpson AN**, Andrews A. (March 2020) Healthcare Utilization in Children with Kawasaki Disease. Pediatric Academic Societies Meeting, Philadelphia, PA. May 1-5, 2020. Due to COVID-19 related conference cancellation, this peer-reviewed abstract was disseminated on 4/2020 to PAS 2020 Meeting Program Guide.
10. Johnson SC, Williams DC, Brinton D, Chew M, Simpson AN, Andrews A. (March 2020) A Cost-comparison of Infliximab vs Intravenous Immunoglobulin for Refractory Kawasaki Disease Treatment. Pediatric Academic Societies Meeting, Philadelphia, PA. May 1-5, 2020. Due to COVID-19 related conference cancellation, this peer-reviewed abstract was disseminated on 4/2020 to PAS 2020 Meeting Program Guide.
11. Wee S, Brinton D, **Simpson AN**, Bowlby D, Andrews A. (March 2020) Medication Adherence Following Hospitalization for Pediatric Diabetes Mellitus. Poster Session. Pediatric Academic Societies Meeting, Philadelphia, PA. May 1-5, 2020. Due to COVID-19 related conference cancellation, this peer-reviewed abstract was disseminated on 4/2020 to PAS 2020 Meeting Program Guide.
12. **Simpson AN**, Brinton D, Simpson KN, Ford D, Kirchoff K, Goodwin A. (January 2020) Harmonizing Multi-Site Electronic Health Records Data for Critical Care Comparative Effectiveness Studies: How do we ensure that data quality is equivalent to traditional clinical trials? 13<sup>th</sup> International Conference on Health Policy Statistics, San Diego, CA
13. Sterba KR, Johnson EE, Nadig NR, **Simpson AN**, Goodwin AJ, Simpson KN, Beeks R, Warr EH, Ford DW (Dec. 2019). Determinants of evidence-based practice uptake in community ICUs: A mixed methods study. Paper presentation at the Annual Conference on the Science of Dissemination and Implementation, Washington DC, December 5, 2019.

14. **Simpson AN**, Robinson COB, Harvey JI, Delimbo SM, Debenham E, Holmstedt CA, Simpson KN, Ford DW. (Nov 2018). A Population Health Approach to Measuring the Impact of a State-wide Telestroke Program. Perry V. Halushka MUSC Student Research Day, November 2, 2018, Charleston, SC.
15. Simpson KN and **Simpson AN** (June 2018). Comparison of Charge to Payment Ratios Across States, Payers, and DRGs. Poster presentation to Academy Health's Annual Research Meeting, June 2018, Seattle, WA.
16. Simpson KN, Seamon BA, **Simpson AN** (June 2018). Effect of Medicare Patients' Pre-Stroke Treatment Seeking Behavior on 12-month Outcomes Post Stroke –Developing a Risk Adjustment Measure for Treatment Seeking Behavior. Poster presentation to Academy Health's Annual Research Meeting, June 2018, Seattle, WA.
17. Brinton DL, Harvey J, **Simpson AN**, Ford D, Simpson KN (June 2018). Issues in using EMR data for severity adjustment for quality improvement studies: Baseline SOFA scores in the ICU. Poster presentation to Academy Health's Annual Research Meeting, June 2018, Seattle, WA.
18. Brinton DL, Andrews AL, **Simpson AN** (June 2018). How Sensitive Are HEDIS Measures to Enrollment Requirements Among Medicaid Pediatric Patients? Poster presentation to Academy Health's Annual Research Meeting (Public Health Pre-Conference Interest Group), June 2018, Seattle, WA.
19. Greene LV, **Simpson AN**, Goodspeed S, Natale-Pereira A (June 2018). Patient, Community, and Geographic Characteristics of Patients Hospitalized for Ambulatory Care Sensitive Conditions in the State of New Jersey in 2012. Poster presentation to Academy Health's Annual Research Meeting (Public Health Pre-Conference Interest Group), June 2018, Seattle, WA.
20. Andrews AL, Brinton D, **Simpson AN**, Simpson KN (May 2018). Assessing the Rolling 3 Month Asthma Medication Ratio among Publicly Insured Children with Asthma. Pediatric Academic Societies (PAS) 2018 Meeting, May 5 - 8, in Toronto, Canada.
21. Andrews AL, Brinton D, **Simpson AN**, Simpson KN (Jan 2018). Assessing the Rolling 3 Month Asthma Medication Ratio among Medicaid Insured Children with Asthma. MUSC Pediatric Research Day. Charleston, SC
22. **Simpson AN**, Simpson KN (Jan 2018). Using Conceptual Modeling to Plan and Execute Quasi-Experimental Studies. 12<sup>th</sup> International Conference on Health Policy Statistics, Charleston, SC
23. Brinton D\*, Andrews AL, **Simpson AN** (Jan 2018). How sensitive are findings to enrollment definition changes in Medicaid data? 12<sup>th</sup> International Conference on Health Policy Statistics, Charleston, SC
24. Brinton D\*, **Simpson AN**, Simpson KN (Jan 2018). Issues in using EMR data for severity adjustment: Baseline SOFA scores in the ICU. 12<sup>th</sup> International Conference on Health Policy Statistics, Charleston, SC
25. Dooley M\*, Cartmell K, Mueller M, **Simpson AN**, Dismuke C, Nahhas G, Warren G, Cummings M. (Jan 2018) *Comparison of four methods to control selection bias: an example from a smoking cessation study*. Accepted poster presentation for the International Conference on Health Policy Statistics Meeting. Charleston, SC.

26. Hong I\*, **Simpson AN**, Simpson KN, Brotherton SS, Velozo CA (2017, June). Disability comparisons between community-dwelling adults in the United States and Korea using a comparable outcome measure. June 27-29. Poster will be presented at the Academy Health Annual Research Meeting, New Orleans, LA.
27. **Simpson AN**, Simpson KN, Dubno JR. (June 2017). Healthcare Costs Are Substantially Higher in Insured Older US Adults with Hearing Loss. Oral presentation, Academy Health's Annual Research Meeting. June 26, 2017, New Orleans, LA.
28. Brinton, DL\*, **Simpson AN**, Fominaya CE. & LaRue AC (June 2017). Impact of selective serotonin reuptake inhibitors (SSRIs) on bone health in the Veteran population: 10 year clinical outcomes. Poster presentation, Academy Health's Annual Research Meeting, June 2017, New Orleans, LA.
29. **Simpson AN**, Wilmskoetter J, Hong I, Li CY, Jauch EC, Bonilha HS, Anderson K, Harvey J, Simpson KN. (June 2017). A Stroke Severity Prediction Model and Score for Use with Administrative Data. Academy Health Annual Research Meeting. New Orleans, LA.
30. Johnson EE\*, **Simpson AN**, Harvey JB, Simpson KN (April 2017). Diffusion of A Surgical Innovation: Identifying Contextual Factors with Big Data. Lowcountry Nursing Research Conference, Charleston, SC.
31. Hutchison SD\*, Woodbury, ML, & **Simpson AN** (2017, March), The Impact of Reported Anxiety and Depression on Disability Following Stroke. Poster & Oral Presentation, Annual Conference of the American Occupational Therapy Association, Philadelphia, PA
32. Brinton DL\* (presenting author), **Simpson AN**, Fominaya CE, & LaRue AC (Nov. 2016). Impact of selective serotonin reuptake inhibitors (SSRIs) on bone health in the Veteran population: 10 year clinical outcomes. Oral presentation at the Perry V. Halushka MUSC Student Research Day, November 2016. **Awards:** 1<sup>st</sup> Place Winner—PhD IV Oral Presentation, Oral Presentation Winner—Interprofessional Collaboration Research Award
33. Hutchison SD\*, Woodbury, ML, & **Simpson AN** (2017, March), The Impact of Reported Anxiety and Depression on Disability Following Stroke. Perry V. Halushka MUSC Student Research Day, November 2016.
34. Hong I\*, **Simpson AN**, Velozo CA, Kim MY, & Simpson KN. (March 2017). The impact of the G-Code system on Medicare Part B rehabilitation payments for stroke: Do the g-codes reduce costs? March 31-April 2. Oral presentation at the 2017 AOTA Annual Conference & Centennial Celebration, Philadelphia, PA.
35. Li CY\*, Simpson KN, **Simpson AN**. (June 2016). The Relationship Between Fat Embolism, Cognitive Impairments and Healthcare Payment for Individuals with Hip/Pelvic Fracture. Academy Health Annual Research Meeting, Boston, MA.
36. Li CY\*, **Simpson AN**, & Simpson KN. (May 2016). Identifying risk factors for post-stroke depression. 5th Annual Occupational Therapy Summit of Scholars Conference, Pittsburg, PA.
37. Li CY\*, Simpson AN, Simpson K. (May 2016). Identifying risk factors for post-stroke depression. Poster session will be presented at the 5<sup>th</sup> Annual Occupational Therapy Summit of Scholars Conference, Pittsburg, PA, United States.

38. Andrews AL\*, Simpson KN, Bundy DG, Teufel RJ, **Simpson AN** (April 2016). Inhaled Corticosteroid Prescription Claims after Hospitalization for Acute Asthma Exacerbation Among Commercially Insured Children. MUSC Translational Research Day, Poster Presentation, Charleston, SC.
39. Johnson EE\*, **Simpson AN**, Harvey JB, Simpson KN (April 2016). Diffusion of A Surgical Innovation: Identifying Contextual Factors with Big Data. MUSC Translational Research Day, Poster Presentation, Charleston, SC.
40. Li CY\*, Romero R, Bonilha H, Simpson K, **Simpson AN**, Hong I, & Velozo C (April 2016). Developing continuum of care assessment across post-acute care in Veterans. Poster session will be presented at the 96th Conference of American Occupational Therapy Association, Chicago, IL, United States.
41. Li CY\*, Romero S, **Simpson AN**, Bonilha H, Simpson K, Hong I, Velozo C (April 2016). Comparing measurement precisions of short forms: Measuring self-care physical function in Veterans. Oral session will be presented at the 96th Conference of American Occupational Therapy Association, Chicago, IL, United States.
42. Li CY\*, Romero R, Simpson K, **Simpson AN**, Bonilha H, Hong I, Velozo C (April 2016). Comparing measurement accuracy of short forms: Individual point difference and Functional Related Group classification. Poster session will be presented at the 96th Conference of American Occupational Therapy Association, Chicago, IL, United States.
43. Johnson EE\*, **Simpson AN**, Harvey JB, Simpson KN (Dec 2015). Diffusion of a surgical innovation: Identifying contextual factors with big data. 8th Annual Conference on the Science of Dissemination and Implementation, Washington, DC.
44. Li CY\*, Romero S, Simpson K, **Simpson AN**, Bonilha H, Hong I, Velozo C. (Nov. 2015). Using An Item Bank to Measure Activity of Daily Living across Facilities: Comparing measurement precisions of short forms in Veterans. Oral session was presented at the Perry V Halushka Medical University of South Carolina Research Day, Charleston, SC, United States.
45. **Simpson AN**, Simpson KN, Bonneh-Barkay D, Demitrack MA, Brock DG, (Oct 2015). Using Propensity Score Methods to Combine Multiple Data sources in order to Compare the Effectiveness of Transcranial Magnetic Stimulation (TMS) with Antidepressant Drug Therapy in the Treatment of Major Depression. *Contributed Presentation*. International Conference on Health Policy Statistics. Providence, RI.
46. **Simpson AN**, Logan SL, Simpson KN, Kazley AS, Dubno JR (Oct 2015). Effects of covariate selection for propensity score models on multiple outcomes in non-treatment cohort studies. International Conference on Health Policy Statistics. Providence, RI.
47. Logan SL\*, **Simpson AN**, O'Neill C, Stocking N, Mintzer J, Simpson KN (Oct 2015). A comparison of advanced models of prescription drug utilization with application to a large commercially insured population of patients with dementia. International Conference on Health Policy Statistics. Providence, RI.
48. Harvey JI, **Simpson AN**, Kazley AS (2015, June). The Impact of Advanced Electronic Medical Records on Hospital Length of Stay. Academy Health Annual Research Conference. Minneapolis, MN.

49. Johnson EE\*, **Simpson AN**, Harvey JB, Simpson KN (2015, June). Diffusion of a Surgical Innovation: Bariatric Surgery in the US from 2002-2012. Academy Health Annual Research Conference. Minneapolis, MN.
50. Nadig N\*, Goodwin A, Simpson KN, **Simpson AN**, Ford D (2015, May). Clinical Implications and Biases involved in Inter-ICU Transfers. American Thoracic Society Meeting. Denver, CO.
51. Hong I\*, **Simpson AN**, Li C, & Velozo CA (2015, April). Development of an Upper Extremity Function Measurement Model. (2015, April 21-22). 2015 International Outcomes Measurement Conference. Chicago, IL.
52. Anderson K\*, Woodbury M, **Simpson AN** (2015, Feb.). How can national survey data be used to inform rehabilitation treatment practice post-stroke? Research Poster, DE-CTR ACCEL Annual Meeting. Charleston, SC.
53. Simpson KN, **Simpson AN**, Mauldin PD, Hill MD, Yeatts SD, Spilker JA, Foster LD, Khatri P, Martin R, Jauch EC, Kleindorfer D, Palesch YY, Broderick JP, for the IMS III Investigators. (2015, Feb. 11-13). Cost Effectiveness of Endovascular Therapy for Patients with Severe Acute Stroke: Results from the IMS III Trial 12 Months Economic Follow-up Cohort. International Stroke Conference 2015. Nashville, TN.
54. Aaron SE\*, Gregory CM, **Simpson AN** (2015, Nov.) Associations of Post-Stroke Depression with Subjectively assessed Physical Activity Levels: NHANES 2011-2012. MUSC Student Research Day, Charleston, SC, November 13-14, 2014.
55. Wilmskoetter J\*, **Simpson AN**, Simpson KN, Bonilha HS (2015, Nov.) Practice Patterns of PEG Tube Placement in Acute Stroke Patients: Trend Analysis of HCUP Florida State Data 2001-2012. MUSC Student Research Day, Charleston, SC, November 13-14, 2014.
56. **Simpson AN**, Simpson KN, Dubno JR (2014, June). Healthy Aging, Patient-Centered Care and Burden of Disease Considerations in Older Adults with Hearing Loss (HL). Academy Health's 2014 Annual Research Meeting (ARM), San Diego, CA.
57. **Simpson AN**, Simpson KN, Mauldin PD, Hill MD, Yeatts SD, Spilker JA, Foster LD, Khatri P, Martin R, Jauch EC, Kleindorfer D, Palesch YY, Broderick JP, for the IMS III Investigators. (2014, June). Cost of Inpatient Acute Ischemic Stroke Care in the United States: Findings from the IMS III Trial. Academy Health's 2014 Annual Research Meeting (ARM), San Diego, CA.
58. **Simpson AN**, Simpson KN, Bonneh-Barkay D, Demitrack MA, Brock DG. (2014, June). The Tradeoff Between Internal and External Validity in Comparing the Effectiveness of Transcranial Magnetic Stimulation (TMS) with Antidepressant Drug Therapy in the Treatment of Major Depression Using Propensity Score methods. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 19<sup>th</sup> Annual International Meeting. Montreal, Canada.
59. Simpson KN, **Simpson AN**, Dubno JR (2014, June). Burden of Disease Estimation for Healthy Aging in Older Adults: The Care of the Ranking of Hearing Loss. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 19<sup>th</sup> Annual International Meeting. Montreal, Canada.

60. Simpson KN, **Simpson AN**, Mauldin PD, Hill MD, Yeatts SD, Spilker JA, Foster LD, Khatri P, Martin R, Jauch EC, Kleindorfer D, Palesch YY, Broderick JP, for the IMS III Investigators (2014, Feb.). Drivers of Costs Associated with Reperfusion Therapy in Acute Stroke: The IMS III Trial. International Stroke Conference 2014. San Diego, CA.
61. Simpson KN, **Simpson A**, Kline SK, Gooch K (2013, Nov.). Trends in Liver-Related Healthcare Resource Utilization for HCV-Infected Individuals in the US: 2002-2010. AASLD: The Liver Meeting. Washington, DC.
62. Bonneh-Barkay D, Demitrack MA, Brock DG, Nahas Z, **Simpson AN**, Simpson KN (2013, Oct.). Efficacy and Health Economics Comparison of Transcranial Magnetic Stimulation (TMS) and Antidepressant Drugs in the Treatment of Major Depression. American Psychiatric Association's 65<sup>th</sup> Institute on Psychiatric Services (IPS). Philadelphia, PA.
63. Roten AT\*, **Simpson AN**, Gray KM. The Impact of Educational Materials on Adolescent Marijuana-Related Knowledge and Attitudes: A Pilot Study (2013, Oct.). 60<sup>th</sup> Annual Meeting of American Academy of Child Adolescent Psychiatry.
64. Kazley AS, **Simpson AN**, Teufel RJ, Simpson KN (2013, June). Electronic Health Records Association with Cost Savings in a National Sample: Show Me the Money. Academy Health's 2013 Annual Research Meeting (ARM), Baltimore, MD. June 23-25, 2013
65. **Simpson AN**, Simpson KN, Dubno JR. (2013, June). Hearing Loss Substantially Affects Quality of Life in Older Adults. Academy Health's 2013 Annual Research Meeting (ARM), Baltimore, MD. June 23-25, 2013
66. Sahlem\*, GL, Uhde, TW, Strachan, M, Back, SE, **Simpson, AN**, & Ancoli-Israel S (2013, June). Effects of Dawn Simulation on Sleep in First Year Medical Students. Annual Meeting of the Associated Professional Sleep Societies, Baltimore, Maryland. June 2013.
67. Simpson KN, **Simpson AN**, Kirbach S, Gooch K (2013, May). Trends in Healthcare Resource Utilization for HCV-Infected Individuals in the US: 2002-2012. Digestive Disease Week 2013. Orlando, FL. May 18-21, 2013.
68. Simpson KN, **Simpson AN**.(presenting author), Kirbach S, Gooch K (2013, May). The Burden of HCV to Insurers in the US: Trends in Healthcare Resource Utilization 2002-2012. International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA. May 18-22, 2013.
69. **Simpson AN**, Bonilha HS, Kazley AS, Zoller JS, Ellis C (2013, May). How Big is the Difference Between Marginal Cost Versus Total Cost Estimates? The Case of Ischemic Stroke in South Carolina. International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA. May 18-22, 2013.
70. **Simpson AN**, Simpson KN (2013, May). U.S. Trends in the Cost and Charges for a Hospital Admission for Acute Ischemic Stroke (AIS): Do the Trends Track with the Consumer Price Index (CPI) for Medical Care Services? International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA. May 18-22, 2013.



71. Williams N\*, Williams E, Bodle J, Madey J, Lehman R, Lewis L, **Simpson AN**, Edwards J (May 2013). Acute Psychiatric Presentations of Sports-Related Concussive Injury. 68<sup>th</sup> Annual Society for Biological Psychiatry Meeting. San Francisco, Ca. May 16-19, 2013.
72. Andrews AL\*, **Simpson AN**, Basco WT, Teufel RJ (2013, May). Asthma Medication Ratio Predicts Emergent Healthcare Use in Children. Platform presentation. PAS 2013. Washington DC, May 6<sup>th</sup>, 2013.
73. Williams N\*, Williams E, Bodle J, Madey J, Lehman R, Lewis L, **Simpson AN**, Edwards J (2013, May). The Incidence & Types of Acute Neuropsychiatric Presentations of Sports Concussion. American Neuropsychiatric Meeting in Boston, Ma, April 2013.
74. Roten AT\*, **Simpson AN**, Gray KM (2013, April). Attitudes and Behaviors Towards Marijuana Among Adolescents. South Carolina Psychological Association Annual Meeting. Myrtle Beach, SC. April 12-13, 2013.
75. Sahlem GL\*, Uhde, TW, Strachan, M, Back, SE, **Simpson, AN**, & Ancoli-Israel, S (2013, Feb.). Effects of Dawn Simulation on Sleep in First Year Medical Students. Poster presented at the Annual Meeting of the South Carolina Psychiatric Association, Charleston, South Carolina. Feb. 2013 (First Place Resident Poster Competition)
76. **Simpson AN**, Simpson KN (2013, Feb.). U.S. Trends in the Cost and Charges for a Hospital Admission for Acute Ischemic Stroke (AIS): Do the Trends Track with the Consumer Price Index (CPI) for Medical Care Services? International Stroke Conference 2013. Honolulu, HI. Feb 6-8, 2013.
77. **Simpson AN**, Bonilha HS, Kazley AS, Zoller JS, Ellis C (2013, Feb.). The Cost of Ischemic Stroke: The Superiority of Marginal over Total Cost Estimation and Its Impact on National Cost Estimates. International Stroke Conference 2013. Honolulu, HI. Feb 6-8, 2013.
78. Magro T\*, Lewis T, **Simpson AN**, Wright T, Anton R (2012, May). A retrospective study comparing VA patients receiving long-acting injectable naltrexone versus oral naltrexone maintenance therapy for alcohol dependence. American Psychiatry Association 2012 Annual Meeting. Philadelphia, PA. May 5-6, 2012.
79. Ellis C and **Simpson AN** (2012, April). The marginal cost of aphasia: The impact of race. 2012 National Black Association for Speech-Language and Hearing Convention. Raleigh, SC. April, 2012.
80. Kazley AS, Simpson KN, **Simpson AN**, Jauch EC, Adams RJ (2012, Feb). rt-PA Use Improves Economic Impact and Health Benefits in Stroke. International Stroke Conference. New Orleans, LA. February 1-3, 2012.
81. Bonilha H, **Simpson AN**, Ellis C, Mauldin PD, Simpson KN (2011, Nov.). One Year Cost of Dysphagia Post-Ischemic Stroke. American Speech-Language-Hearing Association Annual Convention. San Diego, CA, November 2011.
82. Ellis, C. **Simpson, A.N.**, Bonilha, H., Mauldin, P.D., Simpson, K.N. The One-Year Attributable Cost of Post-Stroke Aphasia. American Speech-Language-Hearing Association Annual Convention. San Diego, CA, November 2011.
83. **Simpson AN**, Ellis C, Bonilha H, Mauldin PD, Simpson KN (2011, Nov.). The One-Year Attributable Cost of Post-Stroke Aphasia. MUSC Student Research Day. Charleston, SC, November 4, 2011.

84. Friedrich DM\*, **Simpson AN**, Lewis R, McRae-Clark AL, Thomas SE, Back SE, Hartwell KJ (2011, Nov.). Significantly Elevated Smoking Rates Across Drug Dependent Study Populations. MUSC Student Research Day, Charleston, SC, November 4, 2011.
85. Sumpter J\*, **Simpson AN**, Owens M, McRae-Clark AL, Hartwell KJ (2011, Nov.). Differences in Impulsivity Among Drug Dependent Populations. MUSC Student Research Day. Charleston, SC, November 4, 2011.
86. Hartwell K, **Simpson AN**, Friedrich D, Lewis R, Thomas S, McRae-Clark A, Back S, Brady K (2011, June). *Smoking Rates Significantly Elevated in Drug Dependent Study Populations*. 73rd Annual Meeting College on Problems of Drug Dependence (CPDD), Hollywood, Florida. June 18-23, 2011.
87. Sonne SC, Potter JS, Rosenthal RN, **Simpson AN**, Bandyopadhyay D, Tyson C (2010, June). *Drinking Outcomes by Order of Onset in a Placebo Controlled Trial of Acamprosate in Anxious or Depressed Alcoholics*. 72nd Annual Meeting College on Problems of Drug Dependence (CPDD), Scottsdale, Arizona, June 12-17, 2010.
88. Back SE, Payne RA, **Simpson AN**, Brady KT (2010, June). *Predictors of Prescription Opioid Non-Medical Use, Abuse and Dependence: Findings from the National Survey on Drug Use and Health* (Poster Presentation). 72nd Annual Meeting College on Problems of Drug Dependence (CPDD), Scottsdale, Arizona. June 12-17, 2010.
89. Tolliver BK, **Simpson AN**, et. al (2010, March). *Dysregulation of Glutamate Neurotransmission: A Potential Therapeutic Target in Bipolar Disorder and Comorbid Alcohol Dependence?* (Oral Presentation given by Bryan Tolliver). 4<sup>th</sup> Biennial Conference of the International Society for Bipolar Disorders (ISBD). Sao Paulo, Brazil. March 17-19, 2010.
90. Daniel R\*, Bourne R, **Simpson AN**, O'Rourke K, Bolster M (2009, May). Predictors of Response to anti-TNF- $\alpha$  Therapies in Two University-Based Rheumatology Populations with Rheumatoid Arthritis. Abstract published in the Journal of Investigative Medicine 2009; 57(1): 368 (abstract #242) and Oral presentation at the AFMR Southern Regional meeting. New Orleans, LA. Feb. 20, 2009,
91. **Simpson AN**, Nahas Z, Simpson KN (2008, Aug.). Estimating Long-term Placebo Effect using Short-term Repeated Measures Data and Meta Analysis: An example from Depression. 29<sup>th</sup> Annual Meeting of the International Society for Clinical Biostatistics. Copenhagen, Denmark. August 17-20, 2008.
92. Nahas Z, **Simpson AN**, Simpson KN (2008, May). Modeling Antidepressant Properties of Vagus Nerve Stimulation (VNS Therapy) in the Context of a 12 Month Long Placebo Controlled Study. Society of Biological Psychiatry 63rd Annual Scientific Convention. Washington DC. May 1-3, 2008.
93. Upadhyaya H, Gray K, Carpenter M, **Simpson AN**, Frattaroli G (2007, Feb.). Safety and feasibility of atomoxetine for smoking cessation in young smokers with and without Attention Deficit Hyperactivity disorder (ADHD): a pilot study. Abstracted submitted to Society for Research on Nicotine and Tobacco. 13th Annual SRNT Meeting Austin, TX, Feb 21-24, 2007.
94. Daniel R\*, Lavery S, **Simpson AN**, Bolster M (2007, Dec.). Retrospective review and Analysis of 33 Patients with Eosinophilic Fascitis seen in the MUSC Rheumatology Clinic from 1997 to 2007. MUSC Dept. Of Medicine Research Day, Charleston, SC, Dec. 5, 2007

95. Richards AJ\*, Schwacke J, Lu X, **Simpson AN**, Brunelle SA, Janech MG, Lidie KB, Van Dolah FM (2006, Nov.). Software Assisted Analysis of a Translational EST Database for the Dinoflagellate *Karenia brevis*. Poster presented by Adam J. Richards at MUSC Student Research Day. Awarded Library Bioinformatics 1<sup>st</sup> Place Prize — Adam J. Richards (Student work began as a project in my Spring 2006 Database Class). Nov 3, 2006.

## MEMBERSHIP IN PROFESSIONAL/SCIENTIFIC SOCIETIES

2013-present	Academy Health	Member
2012-2013	American Heart/Stroke Association	Member
2004-present	SAS Users Groups International (SUGI)	Member
2003-present	American Statistical Association (ASA)	Member
2005-2009, 2013-2013	International Society for Pharmacoeconomics and Outcomes Research (ISPOR)	Member
2008-2009	International Society for Clinical Biostatistics (ICBS)	Member
2000-2002	Society for Clinical Data Management	Member
1999-2004	Drug Information Association (DIA)	Member

## INTRA/EXTRAMURAL PROFESSIONAL ACTIVITIES

### *Referee/Reviewer/Editor*

#### National/International Conference Leadership and Reviews

2019	“Aging, Disability, and End-of-Life” review committee for the 2019 Annual Research Meeting (ARM), Academy Health. June 2-4, 2019 in Washington, DC	Reviewer
2017-2018	Local Organizing Committee 12 <sup>th</sup> International Conference on Health Policy Statistics (subsection of the American Statistical Association), Charleston, SC Jan 2018	Chair

#### Intramural Grant Review Panels

2019-Nov	MUSC Center on Aging Pilot Project Review Committee	Chair
2019-May, 2020-June	MUSC Center for TeleHealth Pilot Proj Review Committee	Reviewer
2019-July	MUSC TL1 (T32) Pre-doctoral Clinical & Translational Research Training Program Award Review Committee	Reviewer
2019-Jun, 2020-July	MUSC Center on Excellence in Telehealth Pilot Project Review Committee	Reviewer
2017-Jun	MUSC Center on Aging Pilot Project Review Committee	Reviewer

#### Intramural Conference Reviews

2019-Nov	MUSC Perry V. Halushka Student Research Day	Aging Research Award Chair
2018-Nov	MUSC Perry V. Halushka Student Research Day	Aging Research Award Reviewer

#### Extramural DSMB Panels

2020	Clinical Trial Data and Safety Monitoring Board	Biostatistical
	Cognitive and Biological Mechanisms in Pediatric Voice Therapy (K. Verdolini – PI)	Reviewer

#### Extramural Grant Review Panels

2019, 2020	DE-ACEL INBRE Core Center Access Awards Review Panel	Reviewer
2018-Sept	NIH Review Panel - 2019/01 ZRG1 NRCS-V (08) F - Nursing and Related Clinical Sciences; Clinical Management of Patients in Community-based settings (CMPC)	Ad-Hoc Reviewer
2018-May	NIH Review Panel - 2018/10 ZRG1 NRCS-V (08) F - Nursing and Related Clinical Sciences Special Emphasis Panel (SEP)	Ad-Hoc Reviewer
2017-Feb	NIH Review Panel - 2017/10 ZRG1 NRCS-V (08) F - Nursing and Related Clinical Sciences Special Emphasis Panel (SEP)	Ad-Hoc Reviewer
2016-Oct	NIH Review Panel - 2016/10 ZRG1 NRCS-V (08) F - Nursing and Related Clinical Sciences Overflow	Ad-Hoc Reviewer

#### Journal Peer-Reviews

Journal of the American Medical Association (JAMA), JAMA-Surgery, JAMA-Neurology, Annals of Internal Medicine, European Journal of Internal Medicine, Neurology, Dysphagia, Stroke, International Journal of Stroke, Annals of Surgery, Journal of Transplantation, Journal of Hospital Pediatrics, Journal of Applied Gerontology, Journal of Pain and Symptom Management, Drug and Alcohol Dependence, Journal of Medical Economics, Pharmacoeconomics, Journal of Environmental and Public Health, Health Services and Outcomes Research Methodology, BMC Health Services Research, Cost Effectiveness and Resource Allocation, Journal of Clinical Therapeutics

#### **AWARDS, HONORS, MEMBERSHIP IN HONORARY SOCIETIES**

2019	Scholar of the Year Award	MUSC College of Health Professions
2019	Journal of Ear and Hearing Publication of the Year Finalist	International Journal Recognition
2019	Scholar of the Year Award	MUSC College of Health Professions
2018	High Performing Instructor Recognition (based on receipt of 4.5/5 or higher in student evaluation ratings over a 5-year period)	MUSC
2018	2018 Outstanding Achievements in Research Award	MUSC College of Health Professions Alumni Association
2014	Developing Scholar of the Year Award	MUSC College of Health Professions
2014	John R. Raymond Mentoring Fellowship with Thomas Love, PhD	MUSC in collaboration with Case Western Reserve University
2013, 2019	Alpha Eta National Honor Society for Allied Health Professionals (student, faculty)	MUSC
2013	Junior Investigator Travel Award International Stroke Conference	American Heart/Stroke Association, Honolulu, HI
2012	CHP Teacher of the Year, Nominee	MUSC College of Health Professions
2011	Rowley Academic Enhancement Award in Rehabilitation Science	MUSC College of Health Professions
2001-2002	Rotary International Ambassadorial Scholarship for Post-Graduate Study Abroad (\$25,000)	Rotary International Foundation
1998	Mu Sigma Rho National Statistics Honor Society	North Carolina State University Chapter

1998	Graduating Senior Leadership Award, College of Physical and Mathematical Sciences	North Carolina State University
1993-1998	Dean's List, Graduated Cum Laude	North Carolina State University

#### **COMMUNITY SERVICE**

2020-present	Rotary Board Member	Membership Co-Chair
2015-2017	Rotary Board Member	Public Relations Chair
2010-present	Rotary (Charleston Breakfast Club)	Member

#### **ACADEMIC COMMITTEE ACTIVITIES**

##### **University**

2019 – present	Chair, WSI/ARROWS Associate Professor MENTEN Mentoring Club	MUSC Women's Scholars Initiative
2018 – present	Deputy Director and Executive Board Member	MUSC Center on Aging
2017	MUSC Center on Aging/ SCTR Aging Research Day Planning Committee	MUSC Center on Aging/ SCTR Collaboration
2015-2017	Faculty Senate Representative	MUSC Faculty Senate
2015-2018	Co-Chair, Career Development Program Committee, WSI/ARROWS	Women's Scholars Initiative (WSI-ARROWS)
2014	Ad-Hoc Committee Member	MUSC Big Data Task Force
2013-2018	Executive Board Member	MUSC Center on Aging

##### **College**

2020	CHP Space Planning Committee	College of Health Professions
2019	CHP Health Services Strategic Planning Committee Member	College of Health Professions
2019-2021	CHP Curriculum Committee Member (2019-2020), Chair (2020-2021)	College of Health Professions
2018	CHP Faculty Promotion Committee	College of Health Professions
2017-2018	Faculty Evaluation Committee	College of Health Professions
2016-2017	Faculty Recruitment Committee Chairperson	CHP Division Director, Masters of Science in Health Informatics
2015	Strategic Planning Committee – Research Goal Team	College of Health Professions
2015	Educational Technology Journal Club	College of Health Professions
2015	Faculty Assembly, Awards Committee Member	College of Health Professions
2015	Faculty Assembly, Development and Assessment of Teaching Effectiveness (DATE) Review Committee	College of Health Professions
2014-present	PhD Rehab Science Admission Com.	College of Health Professions
2014	Faculty Recruitment Committee Member	CHP Research Faculty, Division of Occupational Therapy
2014-2015	Faculty Assembly, Nominations and Elections Committee Member	College of Health Professions

2013-2014	Faculty Assembly, Nominations and Elections Committee Chair	College of Health Professions
2013	Faculty Recruitment Committee Member	CHP Division Director, Masters of Science in Health Informatics
<b>Department/Division</b>		
2016-current	DHA Admission Committee	MUSC Department of Healthcare Leadership and Management
2012-2014	MHA Awards Committee	MUSC Department of Healthcare Leadership and Management
2012-2013	MHA Admissions Committee	MUSC Department of Healthcare Leadership and Management
2004-2010	Social and Morale Committee, Chair 2004-2007	MUSC Biostatistics and Epidemiology Division
2007-2009	PhD Student Recruitment Committee	MUSC Biostatistics and Epidemiology Division
2005-2006	IT Committee, website subsection chairperson	MUSC Biostatistics and Epidemiology Division
2003	Unmet Needs Committee	MUSC Biostatistics and Epidemiology Division

## TEACHING RESPONSIBILITIES

### Current

2020-present	HRS 800	<b>Translational Research</b> (Course Co-Director)	3 Credit Hours, 4-6 PhD Students
2019-present	HRS 810	<b>Health and Rehabilitation Models</b> (Course Director)	3 Credit Hours, 4-6 PhD Students
2018-present	BMTRY 700L	<b>Introduction to SAS Programming</b> (Intro to Biostatistics Course)	1 Credit Hour, 15-25 PhD and MPH Students
2019-present	DHA 812	<b>Evidence-Based Decision Making</b>	3 Credit Hours, 20-35 DHA Students, 2-4 MPH Students
2015-present	HRS 802	<b>Comparative Effectiveness Research</b>	3 Credit Hours, 1-4 PhD Students, 1-4 MPH Students
2015-present	DHA 990	<b>DHA Doctoral Dissertation Project</b>	9 Credit Hours for the full year, 2-6 DHA Students at a time
2014-present	HRS 819	<b>PhD Teaching Practicum</b> (Applied mentored teaching experience)	1-3 Credit Hours, 1 PhD Student
2013-present	HRS 720	<b>Independent Study in Health Services</b> (Mentored research experience)	1-3 Credit Hours, 1-5 PhD Students (occurs every semester)
2013-present	HRS 820	<b>Statistical Methods for Rehabilitation</b> (Multivariable Modeling Methods)	3 Credit Hours, 3-6 PhD Students

### Past

2015-2018	DHA 875	<b>Comparative Effectiveness Research</b>	3 Credit Hours, 20-35 DHA Students
2013-2015	HRS 830	<b>Introduction to Biostatistics</b>	3 Credit Hours, 4-6 PhD Students
2010-2015	HRS 830L	<b>Introduction to Biostatistics Computer Lab – SAS and SPSS</b>	2 Credit Hours, 4-6 PhD Students
2013, 2014	HAP 820	<b>Comparative Effectiveness Research</b>	3 Credit Hours, 10 MHA Students

2011	OT 555	<b>Quantitative Research for Evidence-Based Practice</b> (Co-Instructor)	2 Credit Hours, 40 OT Students
2011	HAP 738	<b>Management and Health Information Systems</b> (Teaching Assistant)	3 Credit Hours, 34 MHA Students
2010	BMTRY 724	<b>Design and Conduct of Clinical Trials</b> (Teaching Assistant)	3 Credit Hours, 10-15 PhD Students
2009-2010	BMTRY 725	<b>Grant Writing</b> (Teaching Assistant)	3 Credit Hours, 20-35 MSCR/PhD Students
2006, 2008	BMTRY 789	<b>Introduction to Database Design and Modeling</b>	3 Credit Hours, 6-8 PhD Students
2005-2006	BMTRY 755	<b>SAS programming for Linear Modeling</b> (Statistical Methods II Course)	1 Credit Hour, 30-32 MSCR Students
2003-2008	BMTRY 700L	<b>Introduction to SAS Programming</b> (Intro to Biostatistics Course)	1 Credit Hour, 40-50 PhD and MSCR Students

## DOCTORAL COMMITTEES

### Doctor of Philosophy (PhD) – Qualifying Examination

2020-Amanda Vatinno	Member-Research Design and Statistics Question, HRS, MUSC
2020-Erin Reedy	Member-Research Design and Statistics Question, HRS, MUSC
2019-Brooke Mulrenin	Member-Research Design and Statistics Question, HRS, MUSC
2019-Cory Robinson	Chair-Research Design and Statistics Question, HRS, MUSC
2018- Mary Dooley	Member-Research Design and Statistics Question, HRS, MUSC
2017- Maude DesJardins	Member-Research Design and Statistics Question, HRS, MUSC
2017- Daniel Brinton	Chair-Research Design and Statistics Question, HRS, MUSC
2016- Elizabeth Brown	Member-Research Design and Statistics Question, HRS, MUSC
2016- Jennifer Hunnicutt	Member-Research Design and Statistics Question, HRS, MUSC
2016- Courtney O'Neil	Member-Research Design and Statistics Question, HRS, MUSC
2016- Elizabeth Wonsetler	Member-Research Design and Statistics Question, HRS, MUSC
2015- Ickpyo Hong	Member-Research Design and Statistics Question, HRS, MUSC
2015- Kelly Anderson	Member-Research Design and Statistics Question, HRS, MUSC
2015- Stacey Aaron	Member-Research Design and Statistics Question, HRS, MUSC
2015- Janina Wilmskeotter	Member-Research Design and Statistics Question, HRS, MUSC
2015- Amanda Herrman	Member-Research Design and Statistics Question, HRS, MUSC
2014- Emily Johnson	Member-Research Design and Statistics Question, HRS, MUSC
2014- Brandy White	Member-Research Design and Statistics Question, HRS, MUSC
2014- Chih-Ying (Cynthia) Li	Member-Research Design and Statistics Question, HRS, MUSC
2014- Ryan Ross	Member-Research Design and Statistics Question, HRS, MUSC
2013- Alison Gogue	Member-Research Design and Statistics Question, HRS, MUSC

### Doctor of Philosophy (PhD) – Dissertation

(HRS-Health and Rehabilitation Science)

2021 expected, Janet Horn	Effect of depression on post-stroke dysphagia	Member, HRS, MUSC
2021 expected, Brooke Mulrenin	Treatment and evaluation methods in NICU Infants with Feeding Disorders	Co-Chair, HRS, MUSC
2020-Dec., Cory Robinson	The Impact of Patient By-Pass Behavior on Rural Hospital Financial Health	Member, HRS, MUSC

2019- Aug., Maude DesJardins	An Experimental Pilot Study on the Effect of Respiratory Muscle Strength Training (MST) on Presbyphonia	Member, HRS, MUSC
2018-Aug., Daniel Brinton	Missing data methods for ICU SOFA scores in electronic health records studies: Results from a Monte Carlo simulation study. Available from MUSC Electronic Documents Initiative and Collected Archives (MEDICA), <a href="http://digital.library.musc.edu/cdm/ref/collection/medica/id/1718">http://digital.library.musc.edu/cdm/ref/collection/medica/id/1718</a> (Accession No. 1718)	Chair, HRS, MUSC
2018- May, Courtney O'Neil	Hospitalization Rates and Associated Healthcare Costs Attributable to Beers Criteria-Related Adverse Drug Events in a Cohort of Adults Aged 65 and Older	Member, HRS, MUSC
2017- Aug., Kelly Anderson	Optimizing Post-Stroke Motor Learning Treatment Conditions	Member, HRS, MUSC
2016- Aug., Ickpyo Hong	Measuring Disability Levels between Adults with Chronic Conditions in the United States and the Republic of Korea using the Rasch Model	Member, HRS, MUSC
2015- Aug., Chih-Ying (Cynthia) Li	Developing a functional measure across the continuum of post-acute care.	Member, HRS, MUSC
2014- Dec., Emily Johnson	Factors that determine diffusion of bariatric surgery programs in the obese population.	Member, HRS, MUSC

#### **Doctor of Health Administration (DHA) - Dissertation**

2021 – Parnaz Rafatjou	Costs and Variations in ED Visits During Hurricane Irma in Florida: How Telehealth may Improve Healthcare Access during disasters	Chair, MUSC
2021 – Stephen Sales	Practice Makes Perfect: The Volume-Quality Relationship in Pediatric Stoma Closure Surgery	Chair, MUSC
2021 – Nikki King	Outcomes and Factors Influencing Relapse and Recidivism in a Rural Substance Abuse Treatment Program Collaborative	Chair, MUSC
2021 – Charles Cheek	Emergency Triage, Treat, and Transportation Model (ET3) if successfully implemented in North Carolina: A Simulation Based on 2018 Medicare Billing Data	Chair, MUSC
2020-Jeffrey Nwebake	Is a Shortage of Specialist Physicians Disproportionately Affecting Access to Care in Rural Counties with Federally Qualified Health Centers: Trends in Texas from 2012 to 2017	Chair, MUSC
2020-Wen-Jan Tuan	Characterization and Representation of Virtual Health Technology in Primary Care	Chair, MUSC
2019-David Fitzgerald	Determinants of Hospital Variability in Perioperative Red Blood Cell Transfusions During Artery Bypass Graft Surgery ( <b>Manuscript Published</b> ) (Received DHA Dissertation of the Year Award)	Chair, MUSC
2019-Antonio Quiros	Impact of Insurance on Access to Biologics and Healthcare Utilization in Children with Crohn's Disease	Chair, MUSC



2019-Pauline Marcussen	Examination of Impulsivity and Contemplation Differences in Incarcerated Opiate Users Versus Other Substance Users	Chair, MUSC
2018 – Eva Karp	Changes in efficiency and completeness of nursing EHR documentation after the implementation of an admission patient history essential dataset. <b>(Manuscript Published)</b> <i>(Received DHA Dissertation of the Year Award)</i>	Chair, MUSC
2018- Jon Cotton	10-Year Time Trends In Patients Undergoing Abdominal Surgery: Do Surgical Site Infection Risks Change Over Time?	Chair, MUSC
2018 – Roxanne Johnson	The Impact of Gun Violence on Utilization and Costs of Healthcare in South Carolina Emergency Departments	Chair, MUSC
2018- Meghan Richmond	The Impact of Post-Acute Feeding Interventions in Low Birthweight Babies with Failure to Thrive	Chair, MUSC
2018 – John Tejada	An evaluation of costs in a published Markov model; Examining whether the costs used in Reddy et al., 2015 entitled Time to cost-effectiveness following stroke reduction strategies in AF, are reflective of current Medicare payment	Member, MUSC
2018 – Dana Bledsoe	Pediatric Inpatient Days Predictive Model	Member, MUSC
2018 – Shannon Swafford	Impact of Telemedicine on Chronic Disease Management in Medicare Beneficiaries on Overall Costs, Outpatient Costs, Inpatient Costs, and Number of Inpatient Admissions	Member, MUSC
2018 – Michael MacEachern	The Effectiveness of the Army Medical Command Tobacco Cessation Regulation on Tobacco Quick Rates of Soldiers	Chair, MUSC
2017 – Dean E. Doering	Differences in Outcomes for Incarcerated and Non-Incarcerated Patients Hospitalized in the Commonwealth of Massachusetts, 2011-2013: Is “adequate care” in criminal justice institutions Enough? <i>(Received DHA Dissertation of the Year Award)</i>	Chair, MUSC
2017 – Larry G. Troxell	Reengineering Critical Access Hospitals into Medical Homes: An Administrative Case Study	Member, MUSC
2017 – Steven G. Brewer	The Price of Hypoplastic Left Heart Syndrome: Trajectory and Cost of Care for Privately Insured Children in the First 12 Months of Life	Chair, MUSC
2017 – J. Michael Mauldin	Differences in Resource Use and Cost for Non-urgent visits to Urgent Care Centers versus Emergency Departments	Chair, MUSC
2017 – Steven Young	Evaluation of the Effectiveness of Hospital Offshore Call Centers in Reducing Readmissions for CHF and COPD	Chair, MUSC
2017 – Steven DiLembo	The South Carolina Telestroke Program: Does County-Level Telestroke access increase the odds that patients will receive t-pa? <b>(Manuscript Published)</b>	Chair, MUSC

2016 – Eric Weaver	The Association between Advanced EHR Implementation and Incidence of Hospital Acquired Infections	Member, MUSC
2016 – Howard Beatty	Linking EMR to Virtual Care of Psychiatric Patients in the Acute Care Setting	Member, MUSC
2016 – Kumar Shakthi	Hospital Acquired Infections in Patients Admitted to the ICU: Impact on length of stay and cost ( <i>Received DHA Dissertation of the Year Award</i> )	Chair, MUSC
2015 – Lois V. Greene	Patient, Community, and Geographic Characteristics of Patients Hospitalized for Ambulatory Care Sensitive Conditions in the State of New Jersey in 2012	Chair, MUSC
2015 – Brian Ledgers	Posterior Versus Anterior Circulation Strokes: Comparison of Treatment Costs, and Outcomes for Medicare Patients	Member, MUSC
2015 – Shirley S. Harkey	Thirty-Day Readmission Rates for Total Joint Arthroplasty in Florida Hospitals: Are Most Due to Surgical Complications or Comorbid Conditions?	Member, MUSC
2014 - Ron Boring	Trends in Patient Discharge Disposition and Payment Factors Associated with 30-day Hospital Readmissions for Heart Failure	Member, MUSC
2014 - Rebecca S. Troyer	DNR Orders and the Costs and Utilization of Oncology Services at the End of Life	Member, MUSC
2014 - Michelle Logan-Owens	Public Reporting: Has Transparency Improved Outcomes?	Member, MUSC