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**EDUCATION**

Johns Hopkins University, School of Hygiene and Public Health, 1991 Robert Wood Johnson Faculty Fellow; Health Care Finance (Economic Evaluation and Outcomes Research)

University of North Carolina at Chapel Hill, School of Public Health, 1988, DrPH; Health Policy and Administration (Health Services Research)

University of North Carolina at Chapel Hill, School of Public Health, 1983, MPH; Health Policy and Administration (Financial Management)

Hospitalslaborantskolen, Copenhagen and Slagelse Centralsygehus (Central Hospital), Denmark 1965-68. Diploma Medical Technology

**PROFESSIONAL ACTIVITIES**

- 2005-present** Professor, DHA and MSHI Divisions, Healthcare Leadership and Management, College of Health Professions; Professor of Public Health Sciences, College of Medicine. Director, MUSC Comparative Effectiveness Data Analytics Resource (CEDAR) Core, Medical University of South Carolina, Charleston, S.C.
- 2004-2005** Associate Dean for Research and Professor of Health Administration & Policy, College of Health Professions; Professor of Pharmacy and Clinical Sciences, College of Pharmacy; Professor of Biostatistics, Bioinformatics, and Epidemiology, College of Medicine; Investigator, Center for Health Economics and Policy Studies. Medical University of South Carolina, Charleston, S.C.
- 2000-2004** Professor and Vice Chair for Research, Department of Pharmacy Practice, College of Pharmacy; Professor of Biometry & Epidemiology, College of Medicine; Professor of Health Administration & Policy, College of Health Professions; Senior Investigator, Center for Health Economics and Policy Studies. Medical University of South Carolina, Charleston, S.C.
- 1998-2000** Professor, Faculties of Pharmacy and Health Administration & Policy, and Investigator, Center for Health Care Research, Medical University of South Carolina, Charleston, S.C.
- 1985-98** Associate Professor (with tenure), and Assistant Professor 1985-95, and Director Executive MPH Program, Department of Health Policy and Administration, School of Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC (on leave 1996/98).
- 1997-98** Director, Health Economics Research, Chiron Corporation, Emeryville CA, and Director of Clinical Epidemiology/Economics, Chiron Informatics, Alameda CA.
- 1996-97** Associate Professor of Pharmacoeconomics, Center for Health & Social Policy, School of Business and Economics, University of Odense, Denmark.
- 1991-97** Visiting Research Scientist for Economic Modeling Studies, Battelle MEDTAP and MEDTAP International, Arlington, VA.

**1985-89** Director of Executive Master's Programs (Clinical Assistant Professor). Health Policy and Adm., School of Public Health, UNC.

**1980-85** Director of Allied and Public Health Education, Mountain Area Health Education Center (AHEC), Asheville, NC and Adjunct Assistant Professor, UNC School of Medicine.

**1978-80** Program-Coordinator, The Health Adventure, Asheville, NC.

**1979** Instructor. Medical Practice Management Curriculum. Cecil's Jr. College, Asheville NC.

**1976-78** Practice Manager, G.A. Simpson, M.D., and Associates, Asheville, NC. Occupational Medicine.

**1972** Clinical Services Manager, Herbert Simpkins, M.D., Irvington, N.J.

**1969-71** Chief Research Technologist, Division of Nephrology, Cornell Medical College, N.Y.

**1968** Laboratory Supervisor, Central Laboratory and Blood Banking, Lasarettet Hospital, Gaellivare, Sweden.

**1968** Staff Medical Technologist, Slagelse Central Sygehus, Slagelse, Denmark.

#### **Honors:**

2019 Teacher of the Year. MUSC College of Health Professions.

2018 Advancement of Women Mentoring Award. Women Scholar Initiative, MUSC.

Alpha Eta Honor Society Faculty Inductee 2018.

Scholar of the Year. MUSC College of Health Professions 2007 and 2014.

Collaborating Faculty Scholar Award, MUSC Physician Assistant Program August 2006.

Health Care Management Research Award. American College of Healthcare Executives, 1991

The Robert Wood Johnson Foundation Faculty Fellowship in Health Finance, 1991-93

Distinguished Scholar in Allied Health, Albany State College, Albany, Georgia, 1985

Public Health Service Traineeship, 1984-1986

Delta Omega Graduate Public Health Honor Society, 1983

#### **Boards and Committees:**

Member of the Editorial Board for the peer-reviewed journal: Clinical Medicine & Research 2007

NIAID, National Institute of Health. Member, Special Emphasis Grant Review Panel: AIDS Clinical Research Network. 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014

American Cancer Society Pilot Study Grant Proposal Reviewer. Hollings Cancer Center. 2005, 2006, 200, 2009

NCI P01 Program. Special emphasis panel grant reviewer: 2006, 2007, 2008, 2010, 2011, 2013, 2016, 2019

Netherlands Board of Health Research and Development; proposal reviewer for prevention proposals 2008.

Member MUSC IRB, January 2007- December 2009; reappointed for 2010.

Member, MUSC Advisory Committee for NIH T32 Pre-doctoral Training Roadmap grant. 2006-present

Co-Chair for Study Design and Statistical Methods workgroup for the MUSC Clinical and Translational Science Award.

Member MUSC T20 Translational Research Fellowship Advisory Group. 2007- present.

Member, CHP Research Council. 2006- present.

Planning Consortium Member, 1999-2000 for the Tri-national Trial of Options in Management with Antiretrovirals

(OPTIMA), and Member Health Economics Core for the UK component of OPTIMA. 2000-2005.

Expert Panel. Traumatic Brain Injury Rehabilitation, NIH Consensus Conference. August 1997 to October 1998.

HIV/AIDS Economics Review Group. Cochran Collaboration, San Francisco 1998.

MPH Degree Development Commission. Universities of Copenhagen, Aarhus and Odense, Denmark 1996-97.

Scientific Committee. First European Conference on the Economics of Cancer. European Organization for Research and Treatment of Cancer (EORTC), Brussels, Belgium. 1997.

Scientific Committee. Second European Conference on the Economics of Cancer. EORTC, Brussels, Belgium. 2000.

AIDS Economics Research Collaboration, London, United Kingdom 1996-2000.

Information Systems Development and Research Committee, Kobler Center, Chelsea and Westminster Hospital, London England. 1995-98.

UNC School of Public Health, Department of Health Policy and Administration: Doctoral Program Advisory Committee 1988-98; Academic Standards/Curriculum Committee, 1988-91; Strategic Directions Committee, 1985-86; Executive Committee 1986-88; Committee for Development of Award for Excellence in Health Administration 1984, 1986; Advisory Committee on Non-Residential Programs, 1984

UNC School of Public Health Institutional Review Board, 1995-1997.

Committee to review Dean Michel Ibrahim for re-appointment, 1991.

UNC Faculty Council member 1990-93

Theta Chapter, Delta Omega Graduate Public Health Honor Society. President 1993-94. Treasurer 1989-91, Secretary 1991/92, Vice President 1992-93

Advisory Committee on Primary Care Institutes, National Association of Community Health Centers 1993

American Public Health Association, Chair of Health Administration Section 1991-93; Chair of Quality Management Committee; Governing Council Member 1987-89; Section Council Member, 1983, 1984-87; Policy Development Committee 1986, 1987, 1988, 1989, 1990; Chair of Scientific Program Committee, 1986; member 1983, 1984, 1987;

North Carolina Hospital Association, DRG Education Committee, 1983

**Reviewer for the following journals:** JAMA; AIDS; JAIDS; AIDS Care; AIDS Research and Therapy; Health Economics; PharmacoEconomics; Value in Health; Disease Management & Health Outcomes; Medical Care; CRMO; American J. of Public Health; Hospital & Health Services Administration; J. of Health Services Research; J of Preventive Medicine; J. of Urology; National Journal of Medicine; J of Rheumatology; J Obstetrics & Gynecology; PLOS One, Stroke, Medical Economics.

## REFEREED PUBLICATIONS

- 192 Basco, WT, Jr, Ward RC, Taber DJ, **Simpson KN**, Gebregziabher M, Cina RA, McCauley JL, Lockett MA, Moran WP, Mauldin PD, and Ball SJ. Patterns of Dispensed Opioids after Tonsillectomy in Children and Adolescents in South Carolina, United States, 2010-2017. *International Journal of Pediatric Otorhinolaryngology*. Apr 2021;143(3): <https://doi.org/10.1016/j.ijporl.2021.110636>
- 191 Basco, WT, Jr., McCauley JL, Zhang J, Mauldin PD, **Simpson KN**, Heidari K, Marsden JE, Ball SJ. Trends in dispensed opioid analgesic prescriptions to children in South Carolina: 2010-2017. *Pediatrics* Mar 2021;147(3): e20200649
- 190 Starks TJ, Jones S, Sauermilch D, Benedict MD, Adebayo T, Cain D, **Simpson KN**. Evaluating the impact of COVID-19: A cohort comparison study of drug use and risky sexual behavior among sexual minority men in the U.S.A. *Drug & Alcohol Depend* 2020 108260.
- 189 Lai J, Forney L, Brinton D, **Simpson KN**. Drivers of Start-up Delays in Global Randomized Clinical Trials. *Therap Innov & Regulatory Science* 2021 55, 212-227(2021).
- 188 Harvey JB, King KL, Valenta SR, et al. Leveraging Health System Telehealth and Informatics Infrastructure to Create a Continuum of Services for COVID-19 Screening, Testing, and Treatment. *JAMIA* 2020. 10.1093/jamia/ocaa157.
- 187 VanDerwerker CJ, Gregory CM, **Simpson KN**. Using inferred mobility status to estimate the time to major depressive disorder diagnosis post-spinal cord injury. *Arch Phys Med Rehab* 2020 101(4):658-666.
- 186 Low D, **Simpson KN**, Rissmiller R, James E. A new side of sarcoidosis: medication and hospitalization use in a privately insured patient population. *Sarcoidosis VLDL*. 2019 ;36(2):124-9. UI: 32476945
- 185 Naar S, Robles G, Kolmodin KM, Dinaj-Koci, **Simpson KN**, Lam P, Parsons JT, Sizemore EM, Starks TJ. Comparative Effectiveness of Community-Based vs Clinic-Based Healthy Choices Motivational Intervention to Improve Health Behaviors Among Youth Living With HIV: A Randomized Clinical Trial. *JAMA Netw Open*:(8)3;2020 .e2014650 doi:10.1001/jamanetworkopen.2020.14650
- 184 Anadani M, Arthur AS, Tsivgoulis G, Simpson KN et al. Blood Pressure Goals and Clinical Outcomes after Successful Endovascular Therapy: A Multicenter Study. *Ann Neurology* 2020 Mar 10 DOI: 10.1002/ana.25716.
- 183 Middleton A, Simpson KN, Bettger JP, Bowden MG. Pandemics and Beyond - Considerations and Costs of Telehealth Exercise Programs for Older Adults with Functional Impairments Living at Home. *PTJ* 2020 April 8
- 182 Ball SJ, Simpson KN, Zhang J, Marsden J, Heidari K, Moran WP, Mauldin PD, McCauley JL. High-risk opioid prescribing trends: Prescription drug monitoring program data from 2010-2018. *J Pub Hlt Mgt & Pract* 2020 April 19.
- 181 Schnabolk G, Rohrer B, Simpson KN. Increased nonexudative age-related macular degeneration diagnosis among Medicare beneficiaries with rheumatoid arthritis. *Invest Ophthalmol Vis Sci*. 2019;60:3520– 3526. <https://doi.org/10.1167/ iovs.18-26444>
- 180 Callcut RA, Simpson KN, Braniuk S, Fox EE, Tilly BC, Holcomb JR. Cost-effectiveness evaluation of the PROPPR trial transfusion protocols. *Transfusion* 2020 Jan 3 doi:10.1111/trf.15784

- 179 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 eHealth*. 2020 Feb 11. doi: 10.1089/tmj.2019.0204.
- 178 Naar S, Hudgens MG, Brookmeyer R, Carcone AI, Chapman J, Chowdhury S, Ciaranello A, Comulada WS, Ghosh S, Horvath KJ, Ingram LD, LeGrand S, Reback CJ, **Simpson KN**, Stanton B, Starks T, Swendeman D. Improving the Youth HIV Prevention and Care Cascades: Innovative Designs in the Adolescent Trials Network for HIV/AIDS Interventions. *AIDS Patient Care and STDs*. 2019 33(11):388-398 <http://doi.org/10.1089/apc.2019.0095>
- 177 Al Kasab S, Almallouhi E, Debenham E, Turner N, Simpson KN, Holmstedt CA. Beyond acute stroke: Rate of stroke transfers to a tertiary centre following the implementation of a dedicated inpatient teleneurology network. *J Telemed Telecare*. 2019 Aug 28; 1357633X19868097. PMID: 31462135.
- 176 Weeda E, **Simpson KN**, Brinton D, Cassarly C, Shirley D. Loop diuretic use among patients with heart failure and type 2 diabetes treated with sodium glucose cotransporter-2 inhibitors. *J Diab Complic* 2019 Aug; 33(8):567-571. PMID: 31176543.
- 175 Gehefer GO; White BM; Simpson KN. Admissions for Ischemic Stroke Among Younger Adults in Kentucky: A Comparison of Appalachian and Non-Appalachian Counties. *Journal of Allied Health*. 48(2):e61-e64, 2019 Summer.
- 174 Pennar AL, Dark T, **Simpson KN**, Gurung S, Cain D, Fan C, Parsons JT, Naar S. Cascade Monitoring in Multidisciplinary Adolescent HIV Care Settings: Protocol for Utilizing Electronic Health Records. *JMIR Res Protoc*. 2019 May; 8(5): e11185. PMCID: PMC6658287
- 173 Traven, S. A., Brinton, D., **Simpson, K. N.**, Adkins, Z., Althoff, A., Palsis, J., & Slone, H. S. (2019). Preoperative Shoulder Injections Are Associated With Increased Risk of Revision Rotator Cuff Repair. *Arthroscopy*. 2019; 35(3), 706–713. <http://doi.org/10.1016/j.arthro.2018.10.107>
- 172 Seamon BA, **Simpson KN**. The effect of frailty on discharge location for Medicare beneficiaries after acute stroke. *Archives of Physical Medicine and Rehabilitation* 2019 Jul;100(7):1317-1323. doi: 10.1016/j.apmr.2019.02.006. Epub 2019 Mar 26.
- 171 Dellito A, Friedman M, Albert M, Patterson C, Stevans J, Brennan G, Wegener S, Morrisette D, Benecuiuk J, Freel J, Minick K, Lake S, Lemaster C, Daley K, Tamasy M, Mishuris RG, Plumb D, Freburger J, Jeong J, Greco C, Kojha S, Epraim P, Williams C, Schneider M, Sowa G, Cash J, Wasan A, Adams W, Simpson KN, George S, Saper R, Hunter S, Spigle W, Hough L. Study Protocol for Targeted Interventions to Prevent Chronic Low Back Pain (TARGET Trial). *Contemporary Clinical Trials*, Volume 82, 66 - 76
- 170 Amallouhi A, Holmstedt CA, Alkasab S, Harvey J, **Simpson KN**, Debenham E, Turnet NL. Teleneurology network to improve access to neurologists for patients in rural areas: A real-world experience. *Telemedicine & e-Health* 2020 Jan; 26(1):110-113. PMID: 30762494.
- 169 Tipton T, Edwards K, **Simpson KN** et al. Pathologic specimens at time of pyeloplasty: Frequency and practice patterns. *Urology* 2018 122(8):158-161.
- 168 Belanger KJ, **Simpson KN**, Armitage J, Carden RE. The effect on blood supply when implementing donor interval strategies to prevent iron deficiency. *Medical Laboratory Observer* 2018 50(10):12-16.

- 167 Karp EL, Freedman R, **Simpson KN**, Simpson AN. Changes in Efficiency and Quality of Nursing EHR Documentation after Implementation of an Admission Patient History Essential Dataset. *Comput Inform Nurs*. 2019 May; 37(5):260-265. PMID: 31094915.
- 166 **Simpson KN**, Seamon BA, Hand BN, Roldan CO, Taber DJ, Moran WP, Simpson AN. Effect of frailty on resource use and cost for Medicare patients. *J Comp Eff Res* 2018 doi:10.2217/cer-2018-0029. PNID: 30922879
- 165 Andrews AL, Brinton D, **Simpson KN**, Simpson AN (2018). A longitudinal Examination of the Asthma Medication Ratio in Children. *American Journal of Managed Care* (In Press).
- 164 Simpson KN, Simpson AN, Maulden P, Palesch Y, et al. Observed Cost and Variations in Short Term Cost-effectiveness of Therapy for Ischemic Stroke in IMS III. *JAHA J Am Heart Assoc*. 2017 May 8;6(5). pii: e004513. doi: 10.1161/JAHA.116.004513.
- 163 Wilmskoetter J, Simpson AN, Logan S, **Simpson KN**, Bonilha HS. Impact of gastrostomy feeding tube placement on 1-year trajectory after stroke. *Nutr Clin Prac*. 2018 33(4):553-556. PMID: 29397032.
- 162 Simpson AN, Wilmskoetter J, Hong I, Li CY, Jauch EC, Bonilha HS, Anderson K, Harvey J, **Simpson KN**. (2017). Stroke Administrative Severity Index (SASI): Using administrative data for 30-day post-stroke outcomes prediction. *Journal of Comparative Effectiveness Research* 2017 Oct 23. doi:10.2217/cer-2017-0058.
- 161 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 doi: 10.1016/j.apmr.2017.06.022.
- 160 Harvey J, Valenta SR, **Simpson KN**, Lyles MA, McElligott JT. Utilization of Outpatient Telehealth Services in Parity and Non-Parity States 2010-2015. *Telemed eHealth* in process.
- 159 Simpson AN, **Simpson KN**, Dubno JR. Healthcare costs are substantially higher in insured older US adults with hearing loss. *JAGS* 2018.
- 158 Davis M, O'Connell T, Johnson S, Cline S, **Simpson KN**. Estimating Alzheimer's Disease Progression Rates from Normal Cognition Through Mild Cognitive Impairment and Stages of Dementia. *Curr Alzheimer Res* 2018 Jan 18. doi: 10.2174/1567205015666180119092427.
- 157 Simpson AN, Wilmskoetter J, Hong I, Li CY, Jauch EC, Anderson K, Bonilha HS, Harvey J, **Simpson KN**. Stroke Administrative Severity Index: Using administrative data for 30-day post stroke outcomes prediction. *J Comp Eff Res* 2017 6(6) doi 10.2217/cer-2017-005 Epub 2017 Oct 23.
- 156 Tennessee AM, Bradham TS, White BM, **Simpson KN**. The Monetary Cost of Sexual Assault to Privately Insured US Women in 2013. *Am J Public Health*. 2017 Jun;107(6):983-988. doi: 10.2105/AJPH.2017.303742. Epub 2017 Apr 20.
- 155 Wilmskoetter J; **Simpson KN**; Bonilha HS. Hospital Readmissions of Stroke Patients with Percutaneous Endoscopic Gastrostomy Feeding Tubes. *J Stroke & Cerebrovas Dis*. 25(10):2535-42, 2016
- 154 Wilmskoetter J; Simpson AN; **Simpson KN**; Bonilha HS. Practice Patterns of Percutaneous Endoscopic Gastrostomy Tube Placement in Acute Stroke: Are the Guidelines Achievable? *J Stroke & Cerebrovas Dis*. 25(11):2694-2700, 2016.
- 153 Goodwin AJ, Nadig NR, McElligott JT, et al. Where You Live Matters: The Impact of Place of Residence on Severe Sepsis Incidence and Mortality. *Chest* 2016 150(4):829-836.

- 152 Andrews AL, Bundy DG, **Simpson KN**, Teufel RJ, Harvey J, Simpson AN. Inhaled Corticosteroid Claims and Outpatient Visits After Hospitalization for Asthma Among Commercially Insured Children. *Academic Pediatrics*, 2017 17(2):212-217..
- 151 Nadig N, Goodwin A, Simpson AN, Richards JE, **Simpson KN**, Ford D. Patient and Hospital Characteristics Associated with Inter-hospital Transfer for Adults with Ventilator Dependent Respiratory Failure. *Ann Am ThoraSoc* 2017 14(5):730-736.
- 150 Basco WT, Garner SS, Ebeling M, Hulsey TC, **Simpson K**. Potential Acetaminophen and Opioid Overdoses in Young Children Prescribed Combination Acetaminophen/Opioid Preparations. *Pediatric Quality and Safety* 2016 Dec 1; 2(1), doi: 10.1097/pq9.0000000000000007.
- 149 Mims LD, Porter M, **Simpson KN**, Carek P. The “July Effect”: A Look at Medical Admissions. *J Am Board Fam Med* 2016 30(2):189-195.
- 148 Scahill CJ, **Simpson KN**. Thrombosis Following Pediatric Cardiac Surgery is Associated with Significant Morbidity, Mortality and Cost. *Pediatric Critical Care Medicine* in process.
- 147 White BM, Horton LS, **Simpson KN**. Community-level characteristics of high infant mortality: A tool to identify at-risk . *J Health Disparities Research and Practice* 2017.
- 146 Johnson EE, Simpson AN, Harvey JB, Lockett MA, Byrne KT & **Simpson KN**. (2016). Trends in bariatric surgery, 2002-2012: do changes parallel the obesity trend?. *Surgery for Obesity & Related Diseases*, 12, 398-404. doi:10.1016/j.soard.2015.07.009
- 145 Johnson EE, Simpson AN, Harvey JB , **Simpson KN**. (2016). Bariatric surgery implementation trends in the USA from 2002 to 2012. *Implementation Science*, 11, 21. doi:10.1186/s13012-016-0382-x
- 144 Marlow NM, Kazley AS, Chavin KD, **Simpson KN**, Balliet W & Baliga PK. (2016). A patient navigator and education program for increasing potential living donors: a comparative observational study. *Clinical Transplantation*, 30, 619-27. doi:10.1111/ctr.12728
- 143 Marlow NM, **Simpson KN**, Kazley AS, Balliet WE, Chavin KD & Baliga PK. (2016). Variations in coping stages for individuals with chronic kidney disease: Results from an exploratory study with patient navigators. *Journal of Health Psychology*, 21, 1299-310. doi:10.1177/1359105314551776
- 142 White BM, Jones WJ, Moran WP & **Simpson KN**. (2016). Effect of the Economic Recession on Primary Care Access for the Homeless. *Journal of Health Care for the Poor & Underserved*, 27, 1577-91. doi:10.1353/hpu.2016.0104
- 141 Simpson AN, **Simpson KN**, Dubno RJ. Higher health care costs in middle-aged US adults with hearing loss. *JAMA Otolaryngol Head Neck Surg* 2016 doi:10.1001/jamaoto.2016.0188. PMID: 27054903.
- 140 Basco WT, Garner SG, Ebeling M, Freeland KD, Hulsey TC, Simpson KN. Evaluating the Potential Severity of Look-Alike, Sound-Alike Drug Substitution Errors in Children. *Academic pediatrics* 2016;16:183–191
- 139 Simpson AN; Bonilha HS; Kazley AS; Zoller JS; **Simpson KN**; Ellis C. Impact of Outpatient Rehabilitation Medicare Reimbursement Caps on Utilization and Cost of Rehabilitation Care After Ischemic Stroke: Do Caps Contain Costs? *Archives of Physical Medicine & Rehabilitation*. 96(11):1959-65.e4, 2015 Nov.
- 138 Ford DW, Goodwin AJ, Simpson AN, Johnson EJ, Nadig N, **Simpson KN**. A severe sepsis prediction model and score to use with administrative data. *Crit Care Med* 2016; 44:319–327
- 137 Kazley AS, Hund JJ, **Simpson KN**, Chavin K, Baliga P. Health literacy and kidney transplant outcomes. *Progress in Transplantation*. 25(1):85-90, 2015 Mar.
- 136 Sistino JJ, Atz AM, Ellis C Jr, **Simpson KN**, Ikonomidis JS, Bradley SM. Association Between Method of Cerebral Protection During Neonatal Aortic Arch Surgery and Attention Deficit/Hyperactivity Disorder. *Annals of Thoracic Surgery*. 100(2):663-70, 2015 Aug.

- 135 Broderick JP; Berkhemer OA; Palesch YY; Dippel DW; Foster LD; Roos YB; van der Lugt A; Tomsick TA; Majoie CB; van Zwam WH; Demchuk AM; van Oostenbrugge RJ; Khatri P; Lingsma HF; Hill MD; Roozenbeek B; Jauch EC; Jovin TG; Yan B; von Kummer R; Molina CA; Goyal M; Schonewille WJ; Mazighi M; Engelter ST; Anderson CS; Spilker J; Carrozzella J; Ryckborst KJ; Janis LS; **Simpson KN**; IMS II; MR CLEAN Investigators. Stroke. 46(12):3416-22, 2015 Dec. Endovascular Therapy is Effective and Safe for Severe Ischemic Stroke: Pooled Analysis of IMS III and MR CLEAN. *Stroke* 2015 46(12):3416-22. doi: 10.1161/STROKEAHA.115.011397.
- 134 Stanowski AC, **Simpson K**, White A. Pay for Performance: Are Hospitals Becoming More Efficient in Improving Their Patient Experience? *J Healthc Manag.* 60(4):268-85, 2015.
- 133 Kazley, AS; Hund JJ, **Simpson KN**, Chavin K, Baliga. Health literacy and kidney transplant outcomes. *Prog Transplant.* 25(1):85-90, 2015.
- 132 Palesch YY, Yeatts SD, Tomsick TA, Foster LD, Demchuk AM, Khatri P, Hill MD, Jauch EC, Jovin TG, Yan B, von Kummer R, Molina CA, Goyal M, Schonewille WJ, Mazighi M, Engelter ST, Anderson C, Spilker J, Carrozzella J, Ryckborst KJ, Janis LS, Simpson AN, **Simpson KN**, and Broderick JP, for the Interventional Management of Stroke III Investigators. Twelve-Month Clinical and Quality-of-Life Outcomes in the Interventional Management of Stroke III Trial. *Stroke* 2015;46:1321-1327. doi:10.1161/STROKEAHA.115.009180.
- 131 Goodwin AJ, Rice DA, **Simpson KN**, Ford DW. Frequency, cost, and risk factors of readmission among severe sepsis survivors. *Crit Care Med* 2015; 43:738–746.
- 130 Sistino, J. J., Atz, A. M., **Simpson, K. N.**, Ellis, C., Ikonomidis, J. S., & Bradley, S. M. (2014). The prevalence of attention-deficit/hyperactivity disorder following neonatal aortic arch repair. *Cardiol Young*, 1-7. doi: 10.1017/S1047951114000547
- 129 **Simpson K N**, Chen SY, Wu A W, Boulanger L, Chambers R, Nedrow K, Tawadrous M, Pashos C L, Haider S. Costs of adverse events among patients with HIV infection treated with nonnucleoside reverse transcriptase inhibitors. *HIV Medicine* 2014 15(8):488-98.
- 128 Simpson AN, **Simpson KN**, Dubno JR. Health-related quality of life in older adults: Effect of hearing loss and common chronic conditions. *Healthy Aging Research* 2015 4:4.
- 127 Kazley AS, Jordan J, **Simpson KN**, Chavin K, Rodrigue J, Baliga P. Development and testing of a disease-specific health literacy measure in kidney transplant patients. *Prog Transplant* 2014 24(3):263-70.
- 126 White BM, Ellis Jr C, **Simpson KN**. Preventable hospital admissions among the homeless in California: A retrospective analysis of care for ambulatory care sensitive conditions. *BMC Health Serv Res.* 2014 Oct 25;14(1):511. [Epub ahead of print] PMID: 25344441.
- 125 Johnson EE, **Simpson KN**. Discharge disposition after bariatric surgery. *Obes Surg.* 2014 Oct;24(10):1821-5. doi: 10.1007/s11695-014-1372-1. PMID:25056234.
- 124 Wang L, Haider S, Nedrow K, Chambers R, Tawadrous M, Baser O, **Simpson KN**. HIV economic burden of illness in the Veterans Health Administration population. *AIDS Care.* 2015 Jan;27(1):123-31. doi: 10.1080/09540121.2014.947237. Epub 2014 Sep 16. PMID:25225150
- 123 **Simpson KN**, Simpson AC, Mauldin PD, Hill MD, Yeatts SD, Spilker JA, Foster LD, Khatri P, Martin RL, Jauch EC, Kleindorfer D, Palesch YY, Broderick JP, for the IMS III Investigators. Drivers of Costs Associated with Reperfusion Therapy in Acute Stroke: The IMS III Trial. *Stroke* 2014 45(6):1791–1798 DOI: 10.1161/STROKEAHA.113.003874.
- 122 Solem CT, Snedecor SJ, Khachatryan A, Nedrow K, Tawadrous M, Chambers R, Haider S, **Simpson KN**. Cost of Treatment in a US Commercially Insured, HIV-1-Infected Population. *PLOS One* 2014 May 27, 2014 DOI: 10.1371/journal.pone.0098152.
- 121 **Simpson K**, Chen SY, Wu A, Boulanger L, Chambers R, Nedrow K, Tawadrous M, Pashos C, Haider S. Cost of adverse events among patients with HIV infection treated with nonnucleoside reverse transcriptase inhibitors. *HIV Med.* 2014 Mar 18. doi: 10.1111/hiv.12145. PMID: 24641448



- 120 Sanders RB, **Simpson KN**, Kazley AS, Giarrizzi DP. New hospital telemedicine services: Potential market for nighttime telehospitalist service. *Telemed J E Health*. 2014 Mar 24. PMID: 24660844
- 119 Savage AH, Marlow NM, Alkis MH, **Simpson KN**. Cost effectiveness analysis for two surveillance options for cervical intraepithelial neoplasia 1. *J Tract Low Genit Dis*. 2014 Apr;18(2):136-41. doi: 10.1097/LGT.0b013e31829eaf31. PMID: 24270194
- 118 Zapka J, **Simpson K**, Hiot L, Langston H, Fakhry S, Ford D. A mixed method investigation of readiness to change in rural hospitals participating in a tele-critical care intervention. *BMC Health Services Research* 2013, 13:33
- 117 Hawk AF. Chang EY, Shields SM, **Simpson KN**. Cost and clinical outcomes of non-invasive RhD typing for target prophylaxis. *Obstetrics & Gynecology*. 122(3):579-85, 2013 Sep.
- 116 Desai K, Moller J, **Simpson K**, Baran R, Vandesteen O, Dietz B, Gooch K. Cost-minimization of darunavir plus ritonavir and lopinavir/ritonavir in HIV-1 infected treatment-naïve women of childbearing age. *J Med Econ* 17(4):250-8. doi: 10.3111/13696998.2013.877469.
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**Simpson KN** and DesHarnais SI. Criteria for selecting an approach to medical service area definition. Proceedings. 1991 Public Health Conference on Records and Statistics. National Center for Health Statistics. Hyattsville MD 20782.

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## **RESEARCH**

### **Current Research**

R01 HS028284-01                      Simpson/King (PIs)                      01/01/2021- 12/31/2022  
AHRQ

***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.

HRSA-U66RH31458                      Ford (PI)                      09/30/2017-9/29/2021

***Telehealth Center of Excellence***

To develop a Telehealth Center of Excellence, including evaluation of the effects of tele-health on improvement of local and federal healthcare spending, assessment of telehealth adoption and utilization, and issues informatics and in systems standardization.

Role: Director of economic analysis functions.

University Research Core                      Simpson (PI)                      11/01/2015 – 6/30/2021

MUSC Provost for Research

***Comparative Effectiveness Data Analytics Research Resource***

The goal is to develop and direct a new university research core that will be the custodian of "Big Data" administrative data sets and provide consultation and analytical support for faculty and students to use these data for research.

Role: Principal Investigator

U19HD089875 Naar-King, (PI) 09/30/2016 – 05/31/2021

Wayne State University/NIH/NICHD

***Scale It Up: Effectiveness-implementation Research to Enhance HIV-related Self-management among Youth***

In this U19 study, the interdisciplinary research team is committed to working with HIV-infected youth and youth at risk of infection to increase self-management skills—and to expediting the research development phase such that effective programs can serve the needs of youth as soon as possible.

Role: Principal Investigator of Sub-award for economic studies

U01TR002626-01 (McSwain, PI) 04/01/2019 – 03/31/2024

NIH/NCATS

***SPROUT-CTSA Collaborative Telehealth Research Network***

The SPROUT (Supporting Pediatric Research on Outcomes and Utilization of Telehealth) Collaborative was established in 2016, in collaboration with the American Academy of Pediatrics, to evaluate pediatric telehealth services through multicenter research, and has grown rapidly to include 104 healthcare institutions. The proposed SPROUT-CTSA Network will build on SPROUT's existing network, the CTSA Consortium's considerable resources, and the expertise of MUSC's HRSA Telehealth National Center of Excellence and other healthcare institutions and professional organizations across the country to overcome existing barriers to telehealth research and align telehealth research with clinical care and policy development needs.

Role: Co-Investigator

R01 (Rohrer, Simpson Co-PIs) 01/01/2020 –

12/31/2024

NIH

***Elastase and Elastin Peptide Activity in Age-Related Macular Degeneration***

The long-term goal is to understand the fundamental basis of complement signaling in the eye, and how misregulation in this process leads to pathology, to ultimately aid in the development of therapeutic approaches for devastating blinding diseases.

Role: Co-Principal Investigator

R18 HS25654-01A1 (Lenert/Rheingold, Co-PIs) 09/30/2018 – 07/31/2021

AHRQ

***EHR-based Screening and Intervention for Intimate Partner Violence***

The goal is to develop and validate an integrated suite of EHR tools that automates “best practices” from Northern California Kaiser Permanente for screening and intervention for IPV identified within clinical settings. The intervention includes tools for assessment of IPV risk, for documentation of IPV care, and support for a warm hand-off during the primary care visit to a national IPV hotline resource.

Role: Co-Investigator

1R61AG068951-01 (Diaz PI) 08/01/2020-07/30/2022

NIA

***Improving Cancer Screening Through A Tailored Technology-Based Intervention***

To develop a predictive model that identifies patients eligible for lung, breast and colorectal cancer screening per USPSTF recommendations who are at high-risk for missing these screenings based on EHR and supplementary data sources, identify patient preference and develop and intervention to increase screening compliance.

Role: Co-Investigator

**Previous Research**

PCS-1402-10867 Simpson (Co-PI) 07/01/2015 – 06/30/2020

Patient-Centered Outcomes Research Institute

***Targeted Interventions to Prevent Chronic Low Back Pain in High Risk Patients: A Multi-Site Pragmatic RCT***

The goal of this study is to use EHR workflow modifications to screen for and 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-PI

HR-7-302 Ball (PI) 08/01/2016 – 08/31/2019

SC DHEC / CDC

***SC Prescription Drug Overdose Prevention for States***

The goals are to use the SC prescription data registry and archival billing data bases to identify the intended and unintended consequences of South Carolina payer policies that require prescribers of controlled substances to participate in the state's Prescription Drug Monitoring Program (SCRIPTS), and also to implement and evaluate Academic Detailing educational outreach services for prescription drug overdose prevention.

Role: Co-Investigator

U01 MD0111281

Kanter (PI)

07/01/2016 – 06/30/2019

NIH/NHLBI

***Implementation of a Sickle Cell Enhanced Novel Care Network in South Carolina (iSCENSC)***

This project, iSCENSC (Implementation of a Sickle Cell Enhanced Novel Care Network in South Carolina) is designed to develop a patient registry and evaluate intervention effectiveness for achieving full implementation of the SC2 network and to determine if the hub and spokes model of care increases access to quality care for individuals with SCD and produces findings sufficient to identify replicable methods for optimal care enrichment especially in rural populations.

Role: Co-Investigator

Duke Endowment

Ford (PI)

2/01/14 – 1/31/17

*Telemedicine in ICU care.* Implementation and evaluation of the effectiveness of telemedicine in SC hospital ICUs.

Role: Co-investigator for EMR data assessment and analysis.

AbbVie

Simpson (PI)

04/15/14 – 06/30/15

*Estimating Cost of Cure for HCV in 20 developed countries.* This study uses integration of evidence for combination therapy for hepatitis C infection (HCV) combined with cost analysis of archival billing data to estimate the cost per patient successfully treated for HCV in developed countries. Role: PI.

U01 NS054630

Palesh (PI)

09/15/05 – 08/31/13

NIH/National Institute of Neurological Disorders and Stroke

*The ALIAS/IMS3 Study.* This is a pilot study and large trial to assess outcomes for stroke therapy.

Role: Co-investigator

R01 1RC1MD004405-01

Ford (PI)

12/01/09 – 11/30/12

NIH/NCMHD

Critical Care Excellence in Sepsis and Trauma-CREST

CREST uses transformational approaches to address rural health disparities by combining an educational program with telemedicine consultation at rural SC hospitals to improve outcomes in sepsis and trauma. Dr Simpson is the leader of the impact evaluation using EMR and archival billing data for the sepsis intervention. Role: Co-Investigator

R01 DK062596

Baliga (PI)

07/01/07 – 06/31/12

NIH/NIDDK

*A Program to Increase Living Donations in African Americans*

This program will identify and increase the live organ donation rates among African Americans by aiming to: (1) Train educators to work with African American patients and families; (2) Identify potential African American donors early and provide appropriate education; and (3) Utilize trained educators to assist patients and their families in navigating the transplant process. Role: Co-Investigator

Internal Project

Moran (PI)

09/01/08 – 06/30/10

MUSC General Internal Medicine & Geriatrics

*Data Mining for Medical Resident's Quality Improvement Project*

The goal is to a) provide methodological support for residents and faculty in quality and outcomes research, and b) analyze hospital data to improve patient outcomes. Role: Expert advisor/mentor; Medical Director of eCare Net Data Mining and Internal Medicine Resident Research Training Faculty

D57HP08309

Jacques (PI)

07/01/07 – 06/30/10

Health Resources and Services Administration

*Physician Assistant Training in Primary Care.* The purpose is the development of a model program that offers a 2-year academic fellowship for a recent PA graduate with at least one year of clinical experience.

Role: Co-Investigator

Abbott Laboratories. Simpson (PI) 07/16/09 – 09/30/10

*Economic Estimates Based on ACTG5142 for Five Countries*

The goal of this study is to use previously developed economic HIV-disease ACTG5142 Markov model for the US to examine the incremental cost effectiveness of Kaletra when compared to an NNRTI-based regimen in antiretroviral-naïve individuals in the UK, Germany, France, Italy and Spain.

Role: Principal Investigator

Abbott Laboratories. Simpson (PI) 04/15/09 – 10/14/10

*Characteristics of Adverse Events in HIV Clinical Trials and their Effects on HRQL and Trial Discontinuation: A Pooled analysis of clinical trial data*

The goal of the project is to examine the prevalence and persistence of gastrointestinal, neuro-psychiatric and pain adverse events reported in antiretroviral trials, and their effects on quality of life and propensity for early discontinuation. Role:

Principal Investigator

Abbott Laboratories. Simpson (PI) 03/18/09 – 06/17/10

*Economic Models of Kaletra for Europe*

The goal of the project is to examine the cost effectiveness of Kaletra capsules when compared to boosted Atazanavir using the previously developed economic HIV-disease CASTLE Markov model for the US to estimate outcomes for the UK, Germany, France, Spain and Italy.

Role: Principal Investigator

Simpson (PI), Abbott GmbH & Co, Ludwigshafen, Germany 06/01/08 - 03/31/09

*Model to predict cost and consequences of 2<sup>nd</sup> line antiretroviral AIDS therapy in Africa based on the DART study.* Develop and Excel model of AIDS under competing mortality and morbidity of malaria and tuberculosis to estimate budget impact, disability-adjusted survival, number of orphans, number of children not in school, rural farm production hours lost, and medical and funeral cost to urban employers for Uganda and one other TBD country in Africa.

Simpson (PI), Abbott Laboratories, West Chicago Ill. 04/01/08 - 03/31/09

*Cost effectiveness analysis based on the CASTLE study.* Using the AIDS Markov and Discrete Event Simulation models to estimate costs, consequences, and budget impacts for antiretroviral-naïve patients in the US.

Simpson (PI), MUSC 04/15/07 – 04/14/08

*CTSA Pilot Study to develop a discrete event model to estimate impacts of changes in stroke treatments in SC.*

This study uses ARENA discrete event modeling to estimate changes in outcomes and costs for SC if tPA use was increased through a TeleStroke Program, ER stroke team implementation, and other interventions to decrease the morbidity and cost resulting from acute ischemic stroke. \$38,000

Baliga (PI) 07/01/2007-06/30/12

*A Program to Increase Living Donations in African Americans*

The goal of the application is to conduct a study to test the hypothesis that live kidney donation in African Americans will increase with: The utilization of educators who are professionally trained to work with African-American families, early identification and education of African-American donors in potentially high-yield settings, and navigation of the potential donors through the complex evaluation process by these educators.

Simpson Investigator 10% effort.

Simpson (PI), Neuronetics 01/08/06 – 01/07/08

*Cost effectiveness of trans-cranial magnetic stimulation in severe depression.*

An economic analysis of data from three clinical trials for depression for the purpose of reimbursement approval by funding agencies.

Nahas Z (PI), Cyberonics 04/08/07 – 03/30/08

*To design a synthetic placebo control group from archival data to compare outcomes from vagus nerve stimulation treatments for severe depression.*

Role: Co-PI 10% effort

Palesh Y (PI) 09/15/05 – 05/31/10

NIH/National Institute of Neurological Disorders and Stroke

*The ALIAS/IMS3 Study.* This is a pilot study and large trial to assess outcomes for stroke therapy.

Simpson Role: Co-investigator 5% effort Yr 3 budget \$113,482

Morrisette D. (PI)

08/01/06-

06/30/08

*Clinical trial of elastic and inelastic lumbar-sacral support*

Simpson Co-Investigator

Simpson (PI), Exponent

07/01/06-07/30/07

Supitrol *Clinical Trial of Obesity Interventions*

Outcomes trial testing compound to prevent patient drop-out from weight loss regimens.

Simpson (PI), Abbot Labs II Amendment

04/08/06 – 04/14/08

*Discrete Event Simulation Model of Kaletra and Atzanavir*

The purpose of the study is to compare a previously developed AIDS model to a new discrete event model for estimating the long-term outcomes of competing highly active antiretroviral therapies (HAART).

RO1 DK062596 Baliga (PI).

09/15/02 – 06/30/07

NIH/National Institute of Diabetes, Digestive and Kidney Disease

*A Program to Increase Living Donations in African Americans*

The major goals of the project are to (a) assess specific barriers to live organ donations in African-American kidney transplant patients and their families, and (b) implement an educational intervention program to address these concerns and to eventually improve live organ donation rates among this population.

Role: Co-Investigator 5% Effort (MUSC Project #84144) Direct costs: \$150,000

Corporate Contract Simpson (PI). Boehringer Ingelheim Pharmaceuticals, Inc.

06/01/02 - 07/30/06

*Economic and Quality of Life Component for the Phase III Clinical Trials of Tipranavir*

The goal of the project is to design economic and quality of life studies to complement Phase III clinical trial data collection in multinational studies, and to perform the economic analysis required for approval and pricing. Role: Principal Investigator

Principal Investigator (Abbott Labs Project #84528)

01/01/2006 – 04/14/2007

Discrete Event vs. Markov Modeling Comparing Kaletra and Atzanavir in HIV-disease.

The major goal of the project is to compare the performance of two types of mathematical models to assess differences in patient outcomes on combination regimens containing Kaletra vs. Atzanavir. \$121,000

RO1 MH066004. Santos (PI)

9/18/2002-7/31/2007

Schizophrenia Liability Genes Among African Americans. Dr. Simpson is an investigator in charge of the data collection and quality measures. National Institute of Mental Health.

Role: Co-Investigator 5% effort.

U01 NS054630 Palesh (PI).

9/15/2005-5/31/2010

NIH/National Institute of Neurological Disorders and Stroke. The ALIAS/IMS3 Study

Pilot study and large trial to assess outcomes for stroke therapy.

Role: Co-investigator 5% Effort (MUSC Project # 05070890) Direct costs: \$791,155

Investigator. EXPORT Center on Metabolic Syndrome: Investigator Development Core. Research mentor for minority faculty. . NIH National Center for Minority Health Disparities 1P60 MD000267. 9/30/0- 8/31/07

Investigator. Southeastern Node, National Institute on Drug Abuse's Clinical Trial Network (CTN). As the economist for the node, she will provide methodological support for the design of economic and health services research studies and consultation for analysis of resource use and cost data. 10/1/00-9/30/05

Principal Investigator. Effects of adherence to ARV regimens on outcomes and cost in HIV-disease. GlaxoSmith-Klein. 9/16/04-7/31/05.

Principal Investigator. Two economic and quality of life "piggy-back" trials to complement the multinational Phase III clinical trials of Tipranavir salvage therapy. Boehringer Ingelheim 08/15/02-08/14/05.

Project Leader. Economic Access to Antiretroviral Prescription Drugs and Adherence to ARV Guidelines for African American Medicaid Enrollees with HIV-Disease in South Carolina. Study to identify black Medicaid patients with HIV-disease who appear to receive sub-optimal ARV therapy, and providers who have few HIV patients, and design a process to improve ARV care in S.C. Program Grant for Understanding and Eliminating Health Disparities from Agency for Healthcare Research and Quality HS-00-003. Total Project Direct Costs: \$534,900. 10/01/2000 to 10/31/2005

Co-Project Leader: Improving Care for High Risk Minority Patients with Chronic Illnesses by Using Pharmacist Consultations to Follow up on Missed Prescription Refills. Study will examine the impact of using a commercial pharmacy order-entry software program to identify patients at high risk for missed prescriptions, and the use of pharmacist counseling to improve medication adherence. The interventions will be aimed at for patients with hypertension, heart failure, diabetes, and/or depression. Program Grant for Understanding and Eliminating Health Disparities from the Agency for Healthcare Research and Quality HS-00-003. Total Project Direct Cost: \$375,682. 10/01/2000- 10/31/2005

Principal Investigator. Economic evaluation of Kaletra and Atazanavir. Abbott Laboratories. 7/1/2003- 12/31/2004.

Co-Principal Investigator: Cost effectiveness of cervicography vs. colposcopy in high-risk women in SC public health clinics. Model the cost effectiveness of using screening cervicography in women with positive PAP smears. Department of Defense/Hollings Cancer Center. Total Direct Costs \$93,702. 06/01/01-05/30/02.

Principal Investigator: S-Distribution Pilot Study. Develop and program a maximum likelihood estimator capable of testing the differences between two S-distributions, and use this estimator to reanalyze outcome and cost data from clinical trials to test the ability of this approach to improve study power to detect important differences in outcomes for measures with severely skewed and/or bimodal distributions. Funding for programming support. University Research Committee, MUSC. Total Direct Costs: \$18,000. 5/01/2000-4/31/2001.

Principal Investigator: Pilot Study for Standardized Indicators of Cancer Control Impact. This study will develop and pilot test a set of standardized indicators for four major cancers (breast, cervical, colon, and prostate) from health billing and cancer registry data. The indicators will include measures relevant to screening, treatment, and follow-up, and will be designed for use in monitoring and evaluating cancer early detection at the state level. Department of Defense/Hollings Cancer Center. Total Direct Costs: \$80,000. 06/01/2000-5/30/2001.

Core Investigator. : Clinical Trials Network: South-Eastern Node. To develop an infrastructure for drug abuse treatment research through a partnership of the MUSC and a network of community treatment programs (CTPs) in the South-Eastern United States in order to (1) conduct clinical trials in a number of areas, including pharmacologic, behavioral, combined pharmacologic/behavioral practice, health services and dissemination research and (2) work collaborative with other Nodes in the NIDA Clinical Trials Network. B. In collaboration with the Steering Committee of the Clinical Trials Network and NIDA, to develop and organizing framework for the Network, including policies on protocol development and review, publications and dissemination, quality control and data management, selection of assessment batteries and outcome measures, treatment development and therapist training, and clinical care. Dr. Simpson is part of the Health Services Research Core, and will provide support for the HSR design and analysis components, with special emphasis on outcomes measurement and economic studies. National Institute on Drug Abuse. Total Direct Cost: \$12.2 million. Start Date: 9/30/2000 End Date: 8/31/2005

Investigator. Veterans Evidence-Based Research Dissemination Implementation Center (VERDICT). Provide consultation on the design of health economics and health services research studies. VA Centers of Excellence Program. San Antonio TX and Charleston SC. 10/1/99-9/30/2003

Principal Investigator. Pharmaco-economics of ABT 378/r for US Patients, and Adaptation of the US model to Brazil, Canada, France, Germany, Italy, the Netherlands, and Spain. Develop an estimating model that uses Abbott clinical trial data from FDA submission, UK, Dutch, and US archival data from an AIDS patient repository at Oxford University (U.K.) and archival/or prospectively collected economic data from each country to estimate differences in survival and cost of care for patients treated with ABT 378 vs currently available drugs. Abbott Laboratories, Therapeutics Division. Total direct cost \$168,000. 11/1/99-12/31/2000.

Principal Investigator. Economics of Pletal vs. Trental for Intermittent Claudication. Modeled improvement in outcomes and costs for patients with intermittent claudication: a comparison of Trental and Pletal based on updating a published model, meta analysis of clinical trial results and archival data analysis. Pharmacia & Upjohn.



Project Director. Cost Functions for Billing Data. Development of methods to use archival data from medical care billing and other repository systems to "fingerprint" institutions' practice patterns and resource use to allow pattern recognition of adherence to guideline for clinical information systems. Chiron Informatics (**US patent received**).

Project Director. Cancer Disease Models. Development of a system of models (based on archival data) to estimate disease incidence, prevalence and lifetime cost of care for patients with lung- bladder- hepatic-cancer, hemophilia, diabetes, osteoporosis, HIV-disease, heart disease and other complex chronic conditions. These models are used to assess research investment opportunities for developments of biotechnology product lines. Nucleic Acid Diagnostics and Therapeutics Divisions, Chiron.

Principal Investigator. Cost of Illness for Patients with AIDS and Other Severe Chronic Conditions. Glaxo Wellcome, Research Triangle Park, NC. Using archival data from multiple sources to estimate disease and cost burden of complex chronic conditions.

Principal Investigator: Pediatric Allergy Learning Study: Quality of life and Economic Component (Protocol 96-219). ACER- Schering Plough.

Investigator. Economic Model for Parkinson's Disease. Research Triangle Institute, NC.

Principal Investigator. Methodological Support for the Development of Guidelines for Management of Autonomic Dysreflexia. Paralyzed Veterans of America, Washington DC.

Principal Investigator. Multinational Trial of Protease Inhibitor AB247 in End-stage AIDS- Economic Component. Abbott Laboratories, Chicago IL.

Principal Investigator. Outcomes, Cost of Illness and Reimbursement Patterns for Septic Shock Patients. Bayer Corporation, West Haven CT.

Principal Investigator. Model Estimates of Costs and Consequences of Combination Therapies with Antiviral Drugs. Roche Laboratories, Nutley NJ.

Principal Investigator. Methodological Support to the Expert Panel on Guidelines for Management of Deep Vein Thrombosis in Paralyzed Individuals. Paralyzed Veterans of America, Washington DC.

Principal Investigator. Model Estimates of Combination Therapy with Antiviral Drugs in Five European Countries, Australia and Canada. Hoffman-La Roche, Basel Switzerland.

Principal Investigator. Case-study Series of Practice Variations and Cost of Therapy for HIV-Infected Patients with Idiopathic Thrombocytopenia (ITP). UNIVAX Inc, Rockville MD.

Principal Investigator. Development of a Pharmaco-Economic Decision Support Model for AIDS Program Management. Roche Laboratories, Nutley NJ.

Principal Investigator. Pilot Project to Assess the Cost-Effectiveness of Drug Utilization Evaluation Programs in Veterans Administration Hospitals. Quality Management Institute, Durham, NC.

Principal Investigator. Cost Effectiveness of Rifabutin Prophylaxis in AIDS patients in the United Kingdom. Battelle Medical Technology and Policy Research Center, Washington, DC, 1993-1994.

Principal Investigator (Economic Component). Cost Utility of new antiviral drugs in AIDS patients in the United States. Battelle MEDTAP, Washington DC

Principal Investigator. Economic analysis to support Consensus Panels on 1) Excessive Use of Ultrasound Technology in Normal Deliveries; and 2) Use of Antenatal Steroids in premature deliveries. National Institute of Child Health and Human Development. N.I.H. Bethesda, M.D.

Principal Investigator (Economic component). "The effect of tiludronate for the treatment of vertebral fractures in post-menopausal women. Battelle MEDTAP, Washington DC, 1993-1997.

Co-principal Investigator. The effect of rural hospital closure on cost and outcomes for Medicare beneficiaries. Agency for Health Care Policy and Research. Grant # 1RO1-HS07029-01A1. January 1993-June 1995.

Principal Investigator. "A cost effectiveness study of antiviral treatment with zalcitabine in combination with zidovudine for AIDS patients with CD4 counts < 300 per mm<sup>3</sup>: development of a base model and its adaptation to Switzerland, Germany, France, United Kingdom and Italy." Battelle Medical Technology and Policy Research Center. Washington DC. 1992-1993.

Principal Investigator. "Cost utility analysis of rifabutin for the prevention of Mycobacterium Avium Complex (MAC) disease in AIDS patients." Battelle Medical Technology and Policy Research Center. Washington DC., 1992-1993.

Principal Investigator. "Development of a strategic investment model to forecast the cost effectiveness of new pharmaceutical compounds prior to the institution of clinical trials."Battelle Medical Technology and Policy Research Center, Washington DC., January-September 1992.

Economist. "The cost of tuberculosis in the United States in 1992. Centers for Disease Control, Atlanta GA." Battelle Medical Technology and Policy Research Center. Washington DC.

Principal Investigator. The development of a conceptual model to estimate the interaction between the technical and clinical production functions of the use of bed-side blood analysers in cardiac intensive care patients. Battelle Medical Technology and Policy Research Center. Washington DC.

Principal Investigator. "Development of a Model to Predict the Impact of Investments in Childhood Vaccination Research on Medical Costs and Outcomes." Contract # 263-MD-142293, NIAID, National Institutes of Health. 1991-92. Second award given 1992/93.

Co-Principal Investigator. "Effects of Hospital Closures on Medicare Multiple ADM Patients." National Institute of Mental Health. RO 1 Grant. 1991-94.

Awardee. Faculty Fellowship in Health Care Finance. The Robert Wood Johnson Foundation, 1991-1994 (one of six awards given).

Principal Investigator. "Diffusion and Adoption of Total Quality Management in Hospitals. 1991 Health Care Management Research and Teaching Case Study Development Award, American College of Healthcare Executives (one annual recipient).

Health Economist. Economic Aspects of the Measurement of Effectiveness in the Evaluation of Community Programs for Clinical Research on AIDS." Contract. Division of AIDS, National Institute of Allergy and Infectious Diseases, National Institutes of Health.

Investigator. "Evaluation Design for Community Programs for Clinical Research in AIDS." Contract. Division of AIDS, National Institute of Allergy and Infectious Diseases, NIH.

Principal Investigator. "Community Health Center Teaching Case Development Project." Contract. National Primary Care Institute, Washington, DC.

Principal Investigator. "Management Staff Training Contract," North Carolina Division of Mental Health, Mental Retardation and Substance Abuse.

Project Director. "Pilot Program on Strategic Fiscal and Human Resources Management." Contract. National Primary Care Institute, National Association of Community Health Centers.

Principal Investigator. "A Case Study of Rationing in a National Health System: Denmark." Grant. The University of North Carolina Foundation.

Principal Investigator. "Re-evaluation of the Florida REACH Program". Grant. The Robert Wood Johnson Foundation.

Principal Investigator. "Data Based Interventions for Cancer Control." National Cancer Institute Grant to N.C.D.H.S. UNC Sub-Contract. National Cancer Institute Grant to N.C.D.H.S. UNC Sub-Contract. Mapping of questions for using 20 archival data sources in North Carolina to inform State level cancer control planning and monitoring efforts. 1988

Consultant/Research Scientist. "Small Area Analysis Medical Assessment Pilot Project". To perform the analysis and interpretation of results of Medicare billing data for North Carolina to assess small area variations in hospital admission rates, outcomes and costs for inpatient care. Sub-contract with Medical Review of North Carolina (PRO) on grant from Health Care Financing Administration, Health Standards and Quality Bureau Contract #500-88-004.

Technical Consultant. "Final Evaluation of Management Training Program for In-Charge Community Nurses in Kenya." Technical Leader of Ministry of Health and INTRAH Evaluation Team. US-AID.

Project Director. "Data Based Interventions for Cancer Control." National Cancer Institute Grant to N.C.D.H.S. UNC Sub-Contract. Mapping of questions for using 20 archival data sources in North Carolina to inform State level cancer control planning and monitoring efforts. 1988

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