

CURRICULUM VITAE

CORRON SANDERS, PHD
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CARROLLTON, TX 75010

EDUCATION/TRAINING

Doctor of Philosophy in Preventive Medicine and Community Health-University of Texas Medical Branch Galveston May 2006 Dissertation: The moderating and mediating role of social support and self-efficacy among women with functional limitations.

Bachelors of Arts in Psychology-Baylor University B.A. May 2000

TEACHING EXPERIENCE

Assistant Professor/Program Coordinator-University of North Texas Dallas, Fall 2024-Present

Lecturer/Program Coordinator-University of North Texas Dallas, Fall 2021 – Summer 2024. Teaching undergraduate courses in public health, epidemiology, program and evaluation and health promotion. Overseeing the Public Health Department at UNT Dallas.

Visiting Lecturer – University of North Texas Dallas, Fall 2019 – Spring 2021. Teaching undergraduate courses in public health, epidemiology, program and evaluation and health promotion.

Adjunct Assistant Professor – University of North Texas Health Science Center, Summer 2019 – present. Teaching online graduate courses in public health.

COURSE INFORMATION

University of North Texas at Dallas

Introduction to Public Health (PBHL 2300) – Provides an overview of the field of public health; its history and development, the structure and management of health institutions and organizations, determinants of chronic and acute illnesses, and public health ethics and policies. Topics include maternal and child health, community mental health, and health care delivery in the United States. Semesters taught: Fall 2019. Spring/Fall 2020. Spring/ Fall 2021. Spring/Fall 2022

Planning, Administration and Evaluation of Health Programs (PBHL 3320) - Describes the processes involved in the development, planning, implementation and evaluation of health promotion programs. Semesters taught: Spring 2020. Spring 2021. Fall 2022

Epidemiology (PBHL 4310) Principles and methods of epidemiology and their applicability to public health. Topics include history and practical applications of epidemiology, mortality, and morbidity, sources of data, epidemiologic study design, measurement of disease frequency and effect, data interpretation, and screening for disease. Semesters taught: Fall 2019. Spring/Fall 2020. Spring/ Fall 2021. Spring/Fall 2022

Health Promotion Skills and Competencies (PBHL 4340) – Provides basic content and skills development related to the health educator's roles and responsibilities. Semesters taught: Fall

2019. Spring 2020.

University of North Texas Health Science Center

Public Health Practice Experience (PHED 5297) This course provides students with experience in public health practice through directed work in practice settings. Semesters taught: Summer 2019. Fall 2019. Spring 2020 Summer/Spring/ Fall 2021. Spring/Fall/Summer 2022

PROFESSIONAL EXPERIENCES

CHILDREN'S HEALTH SYSTEM OF TEXAS, DALLAS, TX December 2017-February 2019 SR. DATA SCIENTIST

- Data Science team lead responsible for designing predictive analytics product and services to improve outcomes and consumer satisfaction
- Responsible for partnering with executive leaders and sponsors to present findings
- Used machine learning (ML) to identify patients of interest in readmission and extensive length of stay
- Data wrangling, data exploration, feature extraction and selections, data visualization
- Bridged cross-functional teams of internal and external resources

CHILDREN'S HEALTH SYSTEM OF TEXAS, DALLAS, TX May 2014-December 2017.
RESEARCHER

- Guided the ideation process and planning of innovative health promotion strategies, including, but not limited to the development of web-based asthma app, design of quality improvement projects for physicians and their care teams.
- In partnership with the Vice President for Community Health and Health Equity, launched a new initiative focused on reducing racial and ethnic disparities through system-level change, resulting in improve patient adherence to treatment and decrease re-admissions.
- Generated reports and developed presentations of quality outcomes, patient satisfaction, demographic data, and cost containment opportunities, to report top line metrics and manage improvement efforts to senior leaders.
- Addressed the social determinants of health in the community, including improving access to care.
- Provided strategic guidance and data analyses to inform targeted-population health interventions.
- Planned, developed, executed, and evaluated community and policy interventions using evidenced-based best practices that improve the health and well-being of children in Dallas.
- Build strategic community partnerships that supported the organization's agenda leveraging resources, promoting cooperation, and eliminating areas of overlap and duplications.

CHILDREN'S HEALTH SYSTEM OF TEXAS, DALLAS, TX March 2017-December 2017
ACTING DIRECTOR

- Provided oversight for Federal Readiness Assessment project plan to meet federal and state requirements
- Promoted engagement and continuity between involved individuals to keep projects moving toward the achievement of specific goals
- Served as subject matter expert and facilitator for senior leadership to meet benchmarks for integrating health equity initiatives into the organization
- Developed and guided the implementation of a strategic plan for performance improvement for a

large organizational initiative, including establishing service area goals, objectives, action plans and metrics impacting multiple facets of hospital operations and service delivery

UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER, Dallas, TX September 2009-April 2014 *CLINICAL RESEARCH MANAGER*

- Managed 23 multi-site National Institutes of Health study and served as co-investigator for study assessing reasons for Tylenol overdose
- Led multiple process improvement initiatives through collaboration with cross-functional teams of directors and clinical/support service managers
- Organized, planned, and hosted annual conferences of more than 100 attendees consisting of physicians, federal government workers and pharmaceuticals to share knowledge and discuss projects, findings, and best practices in improving the health of diverse communities.
- Interviewed, trained, and developed staff and interns to achieve core competencies in their respective roles through mentoring and training

UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER, Dallas, TX January 2007-September 2009 *CLINICAL RESEARCH COORDINATOR*

- Managed operational finances (\$10.7M) budget for senior leaders, and assisted in forecasting and developing future budgets.
- Prepared workforce development grant documentation for submission, approval, and reimbursement.
- Prepared quarterly executive reports on performance consultations and monthly financial reports.
- Assisted in hiring administrative personnel
- Supervised and trained interns leading to maximized staff potential and contribution toward departmental goals
- Organized special events and training from inception to completion to include logistic planning, financial management, onsite administration, and post evaluation for all participants

OTHER POSITIONS

2019-Principal Founder Consultant, Deep Oceans Consulting

2015 Lead Consultant, Child Trend's, Washington DC

2003-2005 Research Assistant, Univ. TX Medical Branch Galveston, TX

HONORS

2017 Emerging Leaders Scholars-Children's Health System of Texas

2016 Leaders in Equitable Evaluation and Diversity (LEEAD)-Annie E. Casey

Foundation 2015 Steps Towards Academic Research (STAR) Training Fellowship-

UNTHSC 2001-2005 The National Institute on Disability and Research-Doctoral

Fellow-UTMB

CORE COMPETENCIES

Strategic Thinking: Ability to influence the strategic direction of the organization by identifying opportunities, creating and implementing data driven strategies that generate revenue and enhance quality improvement

Modeling: Predictive modeling and algorithms utilizing diverse sources of data

Research/Analytics: Strong analytical skills with the ability to collect, organize, analyze and disseminate significant amounts of information with attention to big picture details

TECHNICAL SKILLS

Microsoft office, Visio, PeopleSoft, RedCap

Statistical tools: SAS [Enterprise Guide, Enterprise Miner, Visual Analytics, GRAPH, STAT],

SPSS, ACCESS, SQL, Python and R

Data-visualization tools: Tableau

Computational Statistics: Big data analysis, data mining, data modeling, machine learning, multivariate methods, visualization, dashboard design and development

PEER-REVIEWED PUBLICATIONS

Jetelina K K, Reingle-Gonzalez, J, Otuski-Clutter, M, **Sanders, C**, Baidhya, S, Schulte, M, C & Tsai, R. [Unmet physical and mental healthcare needs of children with a history of familial homelessness and unstable housing](#). Journal of Social Distress and the Homeless. 2018; 27(2):135-140.

Somasekar S, Lee D, Rule J, Naccache SN, Stone M, Busch MP, **Sanders C**, Lee WM, Chiu CY. Viral Surveillance in Serum Samples From Patients With Acute Liver Failure By Metagenomic Next-Generation Sequencing. Clin Infect Dis. 2017 16;65(9):1477-1485.

Pezzia C, **Sanders C**, Welch S, Bowling A, Lee WM; Acute Liver Failure Study Group.

Psychosocial and behavioral factors in acetaminophen-related acute liver failure and liver injury. Psychosom Res. 2017;101:51-57.

Rule JA, Hynan LS, Attar N, **Sanders C**, Korzun WJ, Lee WM; Acute Liver Failure

Study Group. [Procalcitonin Identifies Cell Injury, Not Bacterial Infection, in Acute Liver Failure](#). PLoS One. 2015;10(9): e0138566.

Srungaram P, Rule JA, Yuan HJ, Reimold A, Dahl B, **Sanders C**, Lee WM; Acute Liver Failure Study Group. Plasma osteopontin in acute liver failure. Cytokine. 2015;73(2):270-6.

Rich NE, **Sanders C**, Hughes RS, Fontana RJ, Stravitz RT, Fix O, Han SH, Naugler WE, Zaman A, Lee WM. Malignant infiltration of the liver presenting as acute liver failure. Clin Gastroenterol Hepatol. 2015; 13(5):1025-8.

Fontana RJ, Ellerbe C, Durkalski VE, Rangnekar A, Reddy RK, Stravitz T, McGuire B, Davern T, Reuben A, Liou I, Fix O, Ganger DR, Chung RT, Schilsky M, Han S, Hynan LS, **Sanders C**, Lee WM; US Acute Liver Failure Study Group. Two-year outcomes in initial survivors with acute liver failure: results from a prospective, multicentre study. Liver Int. 2015;35(2):370-80.

Tujios SR, Hynan LS, Vazquez MA, Larson AM, Seremba E, **Sanders CM**, Lee WM; Acute Liver Failure Study Group. Hepatology 2015;13(2):352-9.

Metushi IG, **Sanders C**, Acute Liver Study Group, Lee WM, Uetrecht J. Detection of anti isoniazid and anti-cytochrome P450 antibodies in patients with isoniazid-induced liver failure. Hepatology 2014; 59:1084-93.

Karvellas CJ, Fix OK, Battenhouse H, Durkalski V, **Sanders C**, Lee WM; U S Acute Liver Failure Study Group. Outcomes and complications of intracranial pressure monitoring in acute liver failure: a retrospective cohort study. Crit. Care Med. 2014;42:28-32.

Karvellas CJ, Cavazos J, Battenhouse H, Durkalski V, Balko J, **Sanders C**, Lee WM; for the US Acute Liver Failure Study Group. Effects of Antimicrobial Prophylaxis and Blood Stream Infections in Patients with Acute Liver Failure: A Retrospective Cohort Study. Clin. Gastroenterol Hepatol. 2014; Nov;12(11):1942-9.e1.

Dao DY, Seremba E, Ajmera V, **Sanders C**, Hynan LS, Lee WM and the ALFSG. Use of nucleoside (tide) analogues in patients with hepatitis B-related acute liver failure. Dig Dis Sci 2012; 57: 1349-57.

Dao DY, Hynan LS, Yuan HJ, **Sanders C**, Balko J, Attar N, Lok ASF, Word RA, Lee WM. Two distinct subtypes of hepatitis B virus-related acute liver failure are separable by quantitative serum IgM anti-HBc and HBV DNA levels. Hepatology 2012;55:676-84.

Khandelwal N, James LP, **Sanders C**, Larson AM, Lee WM, and the Acute Liver Failure Study Group. Unrecognized Acetaminophen Toxicity as a Cause of 'Indeterminate' Acute Liver Failure. Hepatology 2010; 53: 567-576.

Forde KA, Reddy KR, Troxel AB, **Sanders CM**, Lee W, and the Acute Liver Failure Study Group. Racial and ethnic differences in presentation, etiology and outcomes of acute liver failure in the United States. Clin Gastroenterol and Hepatol 2009; 7:1121-1126.

Li J, Zhu X, Liu F, Cai P, Sanders C, Lee WM, Uetrecht J. Cytokine and autoantibody patterns in acute liver failure. J Immunotoxicol. 2009; 7:157-164.