

# CORRON SANDERS, PHD

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## Education

### **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.

### **Bachelor of Arts in Psychology**

Baylor University | 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

### **Visiting Lecturer**

University of North Texas Dallas | Fall 2019 - Spring 2021

### **Adjunct Assistant Professor**

University of North Texas Health Science Center | Summer 2019 - Present

## Selected Course Experience

### **University of North Texas at Dallas (2019 - Present)**

- Introduction to Public Health (PBHL 2300)
- Planning, Administration and Evaluation of Health Programs (PBHL 3320)
- Epidemiology (PBHL 4310)
- Health Promotion Skills and Competencies (PBHL 4340)

## **University of North Texas Health Science Center (2019 - Present)**

- Public Health Practice Experience (PHED 5297)

### **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 2020, Fall 2021, Spring 2021, Fall 2022, Spring 2023

Human Nutrition (PBHL 3310)

Semesters taught: Summer 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.

Social and Behavioral Sciences in Public Health (PBHL 3340)-Covers the behavioral and social demographic factors influencing health and well-being as well as race ethnicity, social class, gender, immigration status, culture challenges including health equity and health disparities. Semesters taught: Spring 2021

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 2020, Fall, 2020, Spring 2021, Fall 2022, Spring 2023

Biostatistics (PBHL 4320). Introduces basic statistical techniques need to critically analyze and interpret public health data. Topics include descriptive statistics, probability, estimation, hypothesis testing, nonparametric methods, categorical data, regression analysis, analysis of variance, and study design. Students will integrate, synthesize, and apply knowledge through a cumulative capstone project and gain exposure to professionals and agencies engaged in public health practice. Semesters taught: Spring 2023

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, Summer 2020, Fall 2020.

Applied Practice Experience in Public Health (PBHL 4395) Supervised paid or unpaid work experience in public health. Academic supervision and evaluation of performing along with a final presentation are required. Students must secure the internship placements in consultation with the department chair or internship director. Semesters taught: Spring 2023

Special Problems (PBHL 4900) Individual and group research projects on a wide range of public health-related topics. The research projects that satisfy the course are based on a common interest in a topic between the student and the faculty sponsor. Students must contact the faculty sponsors to identify a research topic and project scope to ensure that the goals are reasonable and attainable. Semesters taught: Summer 2023

*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 2021, Fall 2021, Spring 2021, Summer 2022, Fall 2022, Spring 2023, Summer 2023

## **Professional Experience**

### **SR. DATA SCIENTIST**

Children's Health System of Texas, Dallas, TX | December 2017 - February 2019

- Led Data Science team in designing predictive analytics products to improve outcomes and consumer satisfaction
- Partnered with executive leaders to present findings and drive decision-making
- Implemented machine learning models to identify patients at risk of readmission and extended length of stay
- Conducted data wrangling, exploration, feature extraction, and visualization to support organizational goals
- Bridged cross-functional teams of internal and external resources to enhance data-driven initiatives

### **RESEARCHER**

Children's Health System of Texas, Dallas, TX | May 2014 - December 2017

- Spearheaded the development of innovative health promotion strategies, including a web-based asthma app
- Launched a new initiative focused on reducing racial and ethnic disparities, resulting in improved patient adherence and decreased readmissions
- Generated reports and presentations on quality outcomes, patient satisfaction, and cost containment opportunities for senior leadership
- Provided strategic guidance and data analyses to inform targeted population health interventions
- Planned, developed, and evaluated community and policy interventions using evidence-based practices
- Built strategic community partnerships to support the organization's agenda and leverage resources

### **ACTING DIRECTOR**

Children's Health System of Texas, Dallas, TX | March 2017 - December 2017

- Oversaw Federal Readiness Assessment project plan to meet federal and state requirements
- Served as subject matter expert and facilitator for senior leadership in integrating health equity initiatives
- Developed and guided implementation of strategic plans for performance improvement across multiple facets of hospital operations
- Promoted engagement and continuity between involved parties to achieve specific project goals

### **CLINICAL RESEARCH MANAGER**

University of Texas Southwestern Medical Center, Dallas, TX | September 2009 - April 2014

- Managed 23 multi-site National Institutes of Health studies, including co-investigator role for Tylenol overdose study
- Led multiple process improvement initiatives through collaboration with cross-functional teams
- Organized and hosted annual conferences for over 100 attendees, including physicians and federal government workers
- Interviewed, trained, and developed staff and interns to achieve core competencies in their respective role

## **Honors and Awards**

- **Outstanding Service to Students** | UNT Dallas | 2023
- **Delta Omega Honor Society** | 2021
- **Emerging Leaders Scholars** | Children's Health System of Texas | 2017
- **Leaders in Equitable Evaluation and Diversity (LEEAD)** | Annie E. Casey

Foundation | 2016

- **Steps Towards Academic Research Training Fellowship** | UNTHSC | 2015
- **National Institute on Disability and Research Doctoral Fellowship** | UTMB | 2001  
2005

## Skills and Competencies

### Research and Analytical Skills

- Strategic thinking and data-driven strategy development
- Predictive modeling and algorithm development
- Big data analysis, data mining, and machine learning
- Multivariate methods and data visualization

### Technical Skills

- Statistical Software: SAS (Enterprise Guide, Enterprise Miner, Visual Analytics, GRAPH, STAT), SPSS, R
- Programming Languages: SQL, Python
- Data Visualization: Tableau
- Database Management: ACCESS
- Other Software: Microsoft Office Suite, Visio, PeopleSoft, RedCap

### Soft Skills

- Project management and team leadership
- Cross-functional collaboration
- Strategic planning and implementation
- Public speaking and presentation skills

## Selected Peer-Reviewed Publications

1. **Sanders, C.**, et al. (2018). Unmet physical and mental healthcare needs of children with a history of familial homelessness and unstable housing. *Journal of Social Distress and the Homeless*, 27(2), 135-140.
2. Somasekar, S., Lee, D., Rule, J., Naccache, S.N., Stone, M., Busch, M.P., **Sanders, C.**, et al. (2017). Viral Surveillance in Serum Samples From Patients With Acute Liver Failure By Metagenomic Next-Generation Sequencing. *Clinical Infectious Diseases*, 65(9), 1477-1485.
3. Pezzia, C., **Sanders, C.**, Welch, S., Bowling, A., Lee, W.M.; Acute Liver Failure Study Group. (2017). Psychosocial and behavioral factors in acetaminophen-related acute liver failure and liver injury. *Journal of Psychosomatic Research*, 101, 51-57.
4. Rule, J.A., Hynan, L.S., Attar, N., **Sanders, C.**, Korzun, W.J., Lee, W.M.; Acute Liver

- Failure Study Group. (2015). Procalcitonin Identifies Cell Injury, Not Bacterial Infection, in Acute Liver Failure. *PLoS One*, 10(9), e0138566.
5. Srungaram, P., Rule, J.A., Yuan, H.J., Reimold, A., Dahl, B., **Sanders, C.**, Lee, W.M.; Acute Liver Failure Study Group. (2015). Plasma osteopontin in acute liver failure. *Cytokine*, 73(2), 270-6.
  6. Study Group. Procalcitonin Identifies Cell Injury, Not Bacterial Infection, in Acute Liver Failure. *PLoS One*. 2015;10(9): e0138566.
  7. 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.
  8. 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.
  9. 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.
  10. 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.
  11. 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.
  12. 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.
  13. 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.
  14. 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.
  15. 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.
  16. 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.

17. 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.