

Joshua E. Sellner

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EDUCATION

University of South Carolina, Columbia, SC

Ph.D. in Epidemiology

2022

Dissertation: "The Impact of Cannabis and Alcohol Use on the Management of Type 1 Diabetes Mellitus"

Arnold School of Public Health Fellowship recipient

University of South Carolina, Columbia, SC

M.S.P.H. in Epidemiology

2016

Thesis: "Increased Risk of Inflammatory Bowel Disease Following Periods of Elevated Exposure to Fine Particulate Matter"

University of South Carolina, Aiken, SC

B.S. in Exercise Science

2012

Study Abroad Term in Germany and Czech Republic

EXPERIENCE

University of South Carolina

Clinical Assistant Professor

2025 – Present

Teach graduate courses in Health Services Policy and Management.

Mentor students on applied public health projects and research. Engage in departmental service and collaborative research initiatives.

South Carolina Department of Health and Environmental Control

Division Director

2021 – 2024

Led the Divisions of Data Analytics and Population Health Surveillance to enable internal and external partners to make data driven decisions.

Promoted a culture of equity, innovation, and customer service. Oversaw the provision of analytic and epidemiologic support across the agency.

South Carolina Department of Health and Environmental Control
Senior Epidemiologist

2020 – 2021

Served as the senior epidemiologist across chronic diseases, maternal and child health, injuries, and infectious diseases. Led South Carolina's COVID-19 data analytic activities throughout the duration of the pandemic. Advised on hotspots of cases and medical equipment shortage areas. Oversaw all analytic and data visualization activities. Coordinated roles across internal and external partners. Secured funding opportunities to sustain a modern data infrastructure.

South Carolina Department of Health and Environmental Control
Lead Chronic Disease and Injury Epidemiologist

2018 – 2020

Led a team of epidemiologists to monitor and advise on the chronic disease and injury health trends across South Carolina. Developed a system to improve the dissemination of health data into communities through data walks, poster presentations and interactive dashboard development.

University of South Carolina
Teaching Assistant

2016 – 2020

Served as a teaching assistant for eight undergraduate and graduate Epidemiology courses. Developed agendas, met with students, led laboratory sessions, developed and graded homework assignments and exams.

South Carolina Department of Health and Environmental Control
Program Evaluator

2016 – 2018

Conducted program evaluation activities for a CDC-funded grant, coordinated the collection and analysis of both quantitative and qualitative data, disseminated findings through reports, infographics and maps, and worked with community partners to better prevent and treat diabetes and heart disease across South Carolina.

PRESENTATIONS

Sellner J.; *Maternal Morbidity and Mortality Review Committee*

Legislative Brief; Project ECHO Pregnancy Wellness Committee; April 2024; Charleston, SC

Sellner J.; *Social Determinant of Health in South Carolina*; South Carolina Medical Association Conference; April 2024; Greenville, SC

Sellner J., Resciniti, N.; *Infant Mortality*; South Carolina Birth Outcomes Initiative; June 2023; Columbia, SC

Sellner J.; *BRFSS and PRAMS*, University of South Carolina (x2); October 2022/2023; Columbia, SC

Sellner J.; *Community Health Needs Assessments*, University of South Carolina; August 2022; Columbia, SC

Sellner J.; *Epidemiology in Public Health*. The Citadel; April 2022; Charleston, SC

Sellner J.; *Tackling a Pandemic Through Data Insights*. University of South Carolina Undergraduate Epidemiology courses (x4); April/September 2022; Columbia, SC

Sellner J.; *COVID-19 Surveillance in South Carolina*. University of South Carolina; November 2021; Columbia, SC

Sellner J.; *Accessing SC DHEC Secondary Data*. South Carolina Black Nurses Association; October 2021; Columbia, SC

Sellner J., Traxler B.; *State of Public Health*. 4th Annual Live Healthy SC Meeting; October 2021; Columbia, SC

Sellner J.; *The Impact of the COVID Pandemic in SC Related to Diabetes*. 2021 Diabetes Fall Symposium for Primary Health Care Professionals; October 2021; Charleston, SC

Sellner J.; *Diabetes Complications and Hospitalizations in South Carolina*. Diabetes Initiative of South Carolina Quarterly Meeting; September 2021; Charleston, SC

Sellner J. O'Shields K.; *Community Health Assessments*. University of South Carolina; August 2021; Columbia, SC

Sellner J.; *Building Resilient Inclusive Communities*. SC BRIC Kickoff Meeting; July 2021; Columbia, SC

Sellner J.; *Data as a Critical Strategic Tool*. SC DHEC Lunch and Learn; July 2021; Columbia, SC

Sellner J., O'Shields K., Collins, C., Threatt, J.; *Homicide and Suicide Deaths in Charleston City*. Charleston Wellbeing Committee; July 2021; Charleston, SC

Sellner J., Resciniti N.; *Prioritizing COVID-19 Testing in South Carolina*. 2021 CSTE Annual Conference Poster Presentation; June 2021; Virtual

Resciniti N., **Sellner J.**; *COVID-19 in South Carolina: Effectiveness of Mask Ordinances*. 2021 CSTE Annual Conference Poster Presentation; June 2021; Virtual

Resciniti N., **Sellner J.**; *Descriptive Analysis of COVID-19 Among Older Adults in South Carolina*. 2021 CSTE Annual Conference Poster Presentation; June 2021; Virtual

O'Shields K., **Sellner J.**; *Identifying the Presence of Reactive COVID-19 Antibodies in South Carolinians: A Blood Donation Analysis*. 2021 CSTE Annual Conference Poster Presentation; June 2021; Virtual

O'Shields K., **Sellner J.**; *Blood Donation COVID-19 Testing: Identifying The Presence of Antibodies in South Carolina*. Red Cross; April 2021; Columbia, SC

Sellner J.; *Drownings in South Carolina*. Water Safety Coalition; April 2021; Columbia, SC

Sellner J.; *COVID-19 and Racial Equity*. CDC-RFA-Grant 2103 Advisory Committee; April 2021; Columbia, SC

Sellner J.; *Analysis of South Carolinian Lives Saved from Mask Use*. SC Governor's Office; February 2021; Columbia, SC

Sellner J.; *Analyzing Reinfections among Individuals with COVID-19 in South Carolina*. SC DHEC Board; February 2021; Columbia, SC

Sellner J.; *Tackling a Pandemic Through Data Insights*. University of South Carolina Undergraduate Epidemiology courses (x2); February 2021; Columbia, SC

Sellner J.; *COVID-19 Among the Homeless Population*. The Sun News; December 2020; Myrtle Beach, SC

Sellner J.; *COVID-19 Impact on Women in South Carolina*. SC DHEC Public Health Leadership; December 2020; Columbia, SC

Sellner J.; *Guiding the State Health Improvement Plan (SHIP) Through a Pandemic*. 3rd Annual Live Healthy SC Meeting; October 2020; Columbia, SC

Sellner J.; *COVID-19 Cases in Horry County*. WBTW: Myrtle Beach News & Weather; October 2020; Myrtle Beach, SC

Sellner J.; *COVID-19: The Intersection of a Global Pandemic and Civic Unrest*. 5th Annual South Carolina Population Health Summit; August 2020; Columbia, SC

Sellner J.; *Understanding Racial Inequities Highlighted by the COVID-19 Pandemic*. Philanthropic Leaders Talking Together; July 2020; Columbia, SC

Eghtedary K., **Sellner J.**; *Health Equity and COVID-19 in South Carolina*. Understanding the Health Inequities of COVID-19; July 2020; Columbia, SC

Sellner J.; *Injuries Among South Carolina Youth*. Safe Kids South Carolina; June 2020; Columbia, SC

Eghtedary K., **Sellner J.**; *Culture of Equity & Health in South Carolina*. SC DHEC Board; March 2020; Columbia, SC

Sellner J., O'Shields K.; *Community-level Data Walks as a Data Dissemination Tool*; University of South Carolina Graduate Course in Public Health Surveillance Systems; February 2020; Columbia, SC

Sellner J.; *Live Healthy SC Data Walk*; University of South Carolina Graduate Course in Practical Applications of Public Health Planning; February 2020; Columbia, SC

O'Shields K., **Sellner J.**, Myers P.; *Promoting Data Transparency and Tracking through a Key Performance Injury Dashboard*. 2021 CSTE Annual Conference Lightning Presentation; June 2020; Virtual

Sellner J.; *Guiding the State Health Improvement Plan (SHIP) Towards Success*. 2019 Annual Live Healthy SC Meeting; October 2019; Columbia, SC

Sen N., Heidari, K., Small, S., Frick C., **Sellner J.**; *An Assessment of the South Carolina Prescription Monitoring Program Database Features*. 2019 APHA Annual Meeting and Expo Roundtable; November 2019; Philadelphia, PA.

MENTORSHIP

Capstone Project Preceptor, *Evaluation of Perinatal Regionalization in South Carolina*, Darby Mihelich, Bachelors student in Public Health, Spring 2024

Consulting Practicum Preceptor, *Maternal and Infant Health using BRFSS Data in SC to Develop an Interactive Data Dashboard*, Isabella Dubnicka, Masters student in Epidemiology at the Medical University of South Carolina, Fall 2023

Applied Practice Experience Preceptor, *Perinatal Regionalization in South Carolina*, Kimberly McPherson, Masters student in Epidemiology at East Tennessee State University, Summer 2023

Applied Practice Experience Preceptor, *MD STARnet: South Carolina Muscular Dystrophy Surveillance System*, Imani Williams, Masters student in Epidemiology at the University of South Carolina, Spring 2023

Curricular Practical Training Preceptor, *Opioid Use among Pregnant Women in South Carolina*, Ketki Borse, Masters student in Epidemiology at the University of South Carolina, Fall 2022

Consulting Practicum and Capstone Preceptor, *Rural Health in South Carolina*, Conor James, Masters student in Epidemiology at the Medical University of South Carolina, Fall 2022

Consulting Practicum Preceptor, *State Health Assessment - Health Equity*, Emily Ash, Masters student in Epidemiology at the Medical University of South Carolina, Fall 2022

Consulting Practicum Preceptor, *Change in the incidence of human influenza infection in 2019 compare to 2020 in South Carolina: the effect of the measures of mitigations of COVID-19 in the State*. Kokou Volley, Doctoral Student in Epidemiology at University of South Carolina, Spring 2021

Thesis Preceptor, *Defining Septicemia Incidence and Mortality in South Carolina Through Access to Health Care, Behavioral Health, and Low Socio-economic Status*. Raeann Vossburg, Undergraduate Student in Public Health at The University of South Carolina, Spring 2021

Consulting Practicum Preceptor, *Predictors of COVID-19 infection, hospitalizations and mortality among older South Carolina adults*. Nicholas Resciniti, Doctoral Student in Epidemiology at University of South Carolina, Fall 2020

Consulting Practicum Preceptor, *Dissemination of Maternal and Child Health Epidemiologic Findings to Community Partners*. Emily Townsend, Graduate Student in Epidemiology at East Tennessee State University, Spring 2019

Consulting Practicum Preceptor, *Evaluation of the National Diabetes Prevention Program in South Carolina*. Donny Skinner, Graduate Student in Epidemiology at The University of Texas A&M, Fall 2018

CERTIFICATIONS

Diabetes Lifestyle Coach, Diabetes Training and Technical Assistance Center, 2017

Microsoft Access 2016 Advanced, WEKNOWIT, 2017

PUBLICATIONS

Roberts A, **Sellner J**, Sullivan E, Eitel K, Liese A, Jensen E, Merchant A, Dolan L, Marcovina S, Pihoker C. "Cannabis Use and Clinical Outcomes in Adolescents and Young Adults with Diabetes: the SEARCH for Diabetes in Youth Study". *Diabetes Spectrum*; In Press May 2024.

Resciniti, N. V., Kaplan, D., **Sellner, J.**, Lohman, M. C. (2021). "Vaccine access shrinks disparities between long-term care and community rates of COVID-19 mortality" *Innovation in Aging*, 5 (S1)

Lohman, M. C., Resciniti, N. V., Fuller, M., **Sellner, J.** (2021). "Timeline of COVID-19 Incidence and Mortality among Residents and Staff of South Carolina Long-term Care Facilities" *Innovation in Aging*, 5 (S1)

Resciniti, N. V., Fuller, M., **Sellner, J.**, Lohman, M. C. (2021). "COVID-19 Incidence and Mortality Among Long-Term Care Facility Residents and Staff in South Carolina" *Journal of the American Medical Directors Association*, 22 (10)

Truman, S. C., Babatunde, O., Alvarado, C., Heiney, S., **Sellner, J. E.**, Kelly, R. E., Adams, S. A. (2020). "Predictors of nonadherence to adjuvant hormonal therapy among breast cancer patients" *Cancer Epidemiology, Biomarkers & Prevention*, 29 (6)

Sellner, J. E. (2015). "Spatial Analysis of Inflammatory Bowel Disease in South Carolina" *Student Pulse*, 7 (10)