University of Pittsburgh, Department of Epidemiology
Recent Master’s Program Graduate Essay/Thesis Titles

• Demographic Determinants of Perceived Health Risks from Pollution in the Wake of Petrochemical Industry Expansion in Beaver County, PA
• Household Lead Exposures for Children with Elevated Blood Lead Levels in Allegheny County: Geographic and Social Vulnerability Trends
• Health Outcomes for UPMC Total Joint Replacement Patients in Allegheny County After Engaging in a Tobacco Cessation Pre-Surgical Pathway
• Xylazine in the Illicit Opioid Supply: Injury, Overdose, and Trends in North America
• Behind Bars: Assessment of Hepatitis Services in Pennsylvania County Jails and a Comparative Analysis
• Mutual Benefits of Caregiver Implemented Music Interventions Among Persons with Dementia and their Caregivers: A Scoping Review
• Assessing COVID-19 Transmission Risk: Roommate and Unit Male Exposures at an Inpatient Health Facility
• Attitudes Towards Anal Cancer and Screening Among PLWH in Puerto Rico and Their Association with Educational Attainment
• Isolated Posterior Cruciate Ligament Injury: Outcomes and Complications of Operative and Nonoperative Treatment
• Identification and Evaluation on the Barriers and Facilitators to Maternal Health in Nepal: A Review of the Literature
• Bloodstream Infection Risk in Hemodialysis Catheter Patients & Infection Prevention Strategies
• Examining the Impacts of Community Violence on Mental Health Symptomology and Prevalence Among Black Youth in America
• Falls and Social Vulnerability Index: Comparing rates for older adults in Allegheny County, PA
• Comparing Order and Fluidity of Omega-3 PUFA Membranes Using Molecular Dynamics Simulations
• Use of Electronic Health Record Data to Produce Estimates of Influenza Vaccine Effectiveness
• Enhancing Hand Hygiene and Personal Protective Equipment Compliance in Veterans Affairs Hospitals
• Telehealth and Contraceptive Accessibility among Black Women: A Literature Review
• Development and Validation of a Walkability Index from Google Street View Audits
• Conceptual and Computational Representations of Influenza Vaccine Effectiveness
• Contamination of Ring Dosimeters and Hands Among Providers Performing Invasive Procedures: A Quality Improvement Project
• Relating African Ancestry and Genetic Admixture to Health Phenotypes in the Tobago Cohort Study Population
• The Impact of Weight Stigma Among Women with High Weight on Maternal and Birth Outcomes: A Scoping Review
• The Relationship Between Tissue Fibrosis Biomarkers and Physical Function and Body Composition
• A Novel Approach to Correcting Attribution of Clostridioides difficile in a Healthcare Setting
• Fatigue Measurement in Occupational Populations
• West Nile Virus in Allegheny County, Pennsylvania in 2022: A Surveillance Report
• The Effect of Selective Serotonin Reuptake Inhibitors (SSRIs) on Sleep among Midlife Women with Depression: A SWAN Study
• Disparities in Lung Cancer Diagnosis During the COVID-19 Pandemic in Western Pennsylvania
• Effect of Residential Proximity and Exposure to Municipal, Industrial, and Hazardous Waste Sites on Cancer Risk: A Literature Review
• The Potential Impact of Artificial Intelligence on Health Disparities in Dermatology: A Literature Review
• The Effect of Celiac Disease on Adverse Pregnancy Outcomes: A Systematic Literature Review
• Evaluation of Groundwater Samples in Hydraulic Fracturing and Non-Fracturing Counties from 2015 to 2021 using the Pennsylvania Groundwater Quality Monitoring Network
• YoungMoms Study: Neonatal Outcomes and Maternal Characteristics Associated with Prenatal Use of Cannabis and/or Tobacco
• Meta-analysis of COPD Prevalence in Japan
• Improving Compliance to a Standardized Protocol to Reduce Head and Neck Surgical Site Infections
• The Impact of the COVID-19 Pandemic on the Opioid Epidemic in Southern West Virginia
• Testing Correlation of Clostridioides difficile PCR Cycle Threshold Value, Toxin Positivity, and Clinical Symptoms
• Association of Brain Injury Biomarkers in Serum with Gait Measures: The Cardiovascular Health Study
• Patterns of Drug Poisoning and Adverse Cardiovascular Event Mortality in Pennsylvania
• The Acceptance of Free-Floating Biomarker Concentration as a Validated Measurement of Sleep Deprivation Related Endothelial Function in Shift Workers: A Narrative Literature Review
• A Literature Review of Gestational Weight Restriction Among Individuals with Obesity and its Association with Neonatal Outcomes
• Improving Health Outcomes for Afghan Refugees with Tuberculosis in Allegheny County
• Symptoms of psychological distress within lung transplant recipients and its association with perceived and objective lung function
• School Connectedness and Social Support Serve as Protective Factors Against Weapon Violence and Firearm Carrying
• Genetic Associations Between GDF5 and Physical Disability Phenotypes: A PHEWAS Approach
• Clean Catch Urine Specimen and Urinary Tract Infection Rates Analysis at a Psychiatric Inpatient Hospital
• Evidence for Use of Validated Sepsis Screening Tools in the Prehospital Setting: A Systemic Search and Narrative Review
• Early-life Lead Exposure and Neurodevelopmental Disorders in Children: An Umbrella Review of Systemic Reviews
• The Impact of Stigmatization on Those with Sickle Cell Disease in the United States and West Africa: A Literature Review
• Blood Biomarkers of Pulmonary Hypertension in Sickle Cell Disease: A Cross-Sectional Proof-of-Concept Study
• The Effects of Hydraulic Fracturing on Childhood Cancer
• First Responder Harm Reduction and Overdose Prevention Training: A Review of the Literature
• The Impact of COVID-19 on Harm Reduction Services in the United States: A Scoping Review
• Animal Bite and Rabies Surveillance in Allegheny County, Pennsylvania from 2013 to 2020: Trends and Lessons Learned
• Association of Air Pollution and Neurodegeneration Biomarkers
• Relationship Between Paternal Characteristics and Spontaneous Abortion
• Associations Between Operational Characteristics and COVID-19 Outbreaks in Skilled Nursing Facilities—Allegheny County, PA, 2020
• Understanding the Association Between Ideal Cardiovascular Health Metrics (American Heart Association’s Life Simple 7) and Subclinical Carotid Atherosclerosis in Midlife Women
• Chronic Inflammation and Glycemic Control: An Analysis of Type 2 Diabetes and Inflammatory Biomarkers in The Long Life Family Study
• Greater Mental Fatigability Moderates the Relationship Between Pre Frontal Cortex Activation and Gait Speed in Dual-Task Walking
• Prenatal and First Year Air Pollution Exposure and Autistic-like Behaviors in Childhood: The Cincinnati Combined Childhood Cohorts
• Hepatitis C Among Women of Reproductive Age in Allegheny County, Pennsylvania: A Vulnerability-Focused Report
• Community-Based Translation of the Diabetes Prevention Program
• Dual Roles of Fitness and Fatigability in the Life-Space Mobility of Older Adults
• COVID-19 Vaccination Rates Among Patients with Schizophrenia
• Trends of Echinocandin Resistance in Candida Glabrata Over an Eleven-Year Period at a University Hospital
• Scoping Review of Exercise with Complementary and Alternative Medicine Interventions for Chronic Low Back Pain
• Longitudinal Analysis of Food Insecurity by Race, Ethnicity, and Housing Status during the COVID-19 Pandemic
• Comparing Survey Data to Qualitative Themes in Patient Stories to Help Researchers Better Identify Pressing Community Healthcare Needs
• Examining the Association Between Exposure to Persistent Organic Pollutants (POPs) and Amyotrophic Lateral Sclerosis (ALS) Risk
• The Impact of the COVID-19 Pandemic on Cancer Care in Nigeria: A Qualitative Study Synthesizing Health Care Providers’ Perspectives
• Repeated Cross-Sectional Analysis of Mental Distress Among Students Seeking Care at the University of Pittsburgh Counseling Center During the COVID-19 Pandemic
• Racial Differences in College Students’ Knowledge, Self-Efficacy, and Use of Sexual Violence Services: A Cross-Sectional Analysis
• A Review and Evaluation of Risk Based Monitoring Procedures as Implemented in the Sickle Cell Disease and Cardiovascular Risk - Red Cell Exchange (SCD-CARRE) Trial
• Addressing Viral Hepatitis and HIV Outbreaks Among Persons Who Inject Drugs in Allegheny County: A Community Response Plan Proposal
• Transmission Visualizations of Healthcare Infection Clusters: A Pilot Scoping Review
• Invasive Bacterial Infection Hospitalizations Associated with Injection Drug Use in Allegheny County, PA: 2016-2020
• Probabilistic Data Linkage: Generating a Reproductive Histories Dataset from States' Vital Records Data
• Impact of the COVID-19 Pandemic on Occupational Training Abilities: An Exploratory Study
• The Classification of COVID-19 Mortality and Evaluation of Deceased Characteristics by Identification Method in Allegheny County, Pennsylvania
• Enhanced Macrophage Cholesterol Efflux Capacity in Middle-Aged Adults with Childhood-Onset Type 1 Diabetes: A Cross-Sectional Analysis
• Baseline Predictors of Program Engagement in an Online Physical Activity Intervention
• The Impact of Food-Based Composite Dietary Antioxidant Intake and Lung Cancer Risk: Findings from the Singapore Chinese Health Study
• Mortality by Reaction Type Among Hospitalized COVID-19 Patients: An Analysis of US Electronic Medical Records
• Hospitalizations of Persons with Hepatitis B and C in Allegheny County, Pennsylvania, 2016-2019
• Effectiveness of COVID-19 vaccines against B.1.617.2 (delta) variant: A systematic review
• Effects of the COVID-19 Pandemic on the Opioid Epidemic in Allegheny County, PA: A Death Narrative Analysis
• Demographics and Mitigation Efforts Associated with the County-Level impact of COVID-19 in Pennsylvania
• Viral Hepatitis Services and Providers in Pennsylvania: A Preliminary Survey
• Impact of Social Factors on Racial Differences in Cardiac Rehabilitation Participation
• An Agent-Based Computational Model of COVID-19 Vaccine Hesitancy
• Factors Contributing to the Insufficient Understanding of How COVID-19 is intertwined with Race and Ethnicity in the United States
• Discrepancy in Prevalence in Alzheimer’s Disease and Related Dementias Among African American and Hispanic Women: A Qualitative Literature Review
• An Evaluation of COVID-19 Virtual Treatment Delivery for Eating Disorders: Assessing Eating Disorder Symptoms Among Patients Across Levels of Care
• The Role of Relationship Status in Intimate Partner Homicide
• Performance Management in Local Public Health Departments: A Tool to Address Sexually Transmitted Infections
• Remote-Care Interventions for Type 2 Diabetes Patients during the COVID-19 Pandemic
• Association of Fatigue and Ulnar Collateral Ligament Injury in Professional Baseball Pitchers
• Pacific Islanders and the Impact of COVID-19 in Hawai’i
• Serum Iron Markers in Relation to Hepatocellular Carcinoma Risk Among Patients with Non-Alcoholic Fatty Liver Disease
• Effects of Smoking and Drinking on Oropharyngeal Cancer Outcome by HPV Serostatus: A Prospective Cohort Study
• A Retrospective Review of COVID-19 Testing and Mitigation Strategies at Western Psychiatric Hospital and Subsequent COVID-19 Acquisition
• The Impact of Corticosteroids on Secondary Infection and Mortality in Critically Ill COVID-19 Patients
• Community-based Sample of Two Predominantly African American Neighborhoods in Pittsburgh, PA
• Prevention and Mitigation of SARS-CoV-2 in a Behavioral Health Setting
• Cumulative stress burden and cognitive function in African American adults living in low-income neighborhoods
• Transition to a more even distribution of daily protein intake is associated with enhanced fat loss during an hypocaloric & physical activity intervention in obese older adults
• Hysterectomy pathways: Systemic Long term impact on reduction of open hysterectomy rates
• Identifying Patterns of Free-Living Physical Activity that are Related to Perceived Physical Fatigability
• Animal Bite and Rabies Surveillance in Allegheny County, 2019
• Association of Leukocyte Telomere Length and Genetic Biomarkers of Leukocyte Telomere Length With Perceived Physical and Mental Fatigability
• The Contribution of Modifiable and Non-Modifiable Risk Factors of Pancreatic Cancer: A Geospatial Analysis and Literature Review
• Investigation of Bone-Mineral Density while using Thyroid Medication: a SWAN Cohort Study
• The Effect of a 6 Months African Dance Physical Activity Intervention on Perceived Physical Fatigability: The Rhythm Experience and Africana Experiment Trial (REACT)
• Effects of Marijuana Legalization Policies on Fatal Car Accidents Throughout the Fifty States
• Association Between Obstructive Sleep Apnea and Cancer: A Survival Analysis
• Determinants of Human Papillomavirus Vaccination Coverage in Young Women Across 76 Countries
• Availability of Hepatitis C Services in Drug and Alcohol Treatment Facilities in Pennsylvania
• Periaortic Adipose Tissue Relationship with Arterial Stiffness in Midlife Men
• Where You Shop and Neighborhood Access to Fruit and Vegetables Are Associated with Self-Rated and Cardiometabolic Health
• Health Outcomes to Determine Health Related Quality of Life of Post 9/11 Veterans Recovering from a Combat Induced Mobility Impairment: A Literature Review
• Sexual and Reproductive Health Knowledge Among Youth Refugees in South Asia
• The Role of Family Support and Outness on the Depressive Symptoms of Gender Minority Youth
• The Genetic Correlation Between Cardiometabolic Disease and Function Status in Long-Lived Adults
• The Catechol-O-Methyltransferase Genotype, Frailty, and Gait Speed: The Cardiovascular Health Study
• The Relationship between Personality and Perceived Mental Fatigability
• Evaluation of the Effectiveness of the Good Samaritan Provision of Act 139 in Allegheny County Pennsylvania
• Assessing Pre-Injury Health Status of Older Adults Who Have Sustained a Traumatic Brain Injury Compared to Matched Controls
• The Relationship between Pollen, Air Pollution, and Asthma Exacerbations in Children in Allegheny County, PA 2003-2011: A Case-Crossover Analysis"
• Biochemical Effects of Toxic Stress and Its Effect on Inflammation During Pregnancy
• A Cross-Sectional Analysis of the Association Between the American Heart Association’s Life’s Simple 7 and Social Risk Factors in US Adults: NHANES 2015-2016
• Cardiac Arrest Etiology and Associated Cognitive Impairment in Survivors
• Animal Bite Surveillance and Treatment for Animal Bite Infections, Allegheny County, Pennsylvania - 2018
• Compendium of Medical Cannabis Policy in the United States and Literature Review of Prenatal Cannabis Use and its Association with Adverse Neonatal Outcomes
• Systematic Review of Telehealth Use in the Rural United States
• Environmental Justice Metrics Contextualize the Preterm Birth Disparity in Allegheny County
• Functional Outcomes and Mortality Rates for Ischemic Stroke Patients Presenting to Rural Hospitals or Urban Hospitals in Pennsylvania
• HDL-C and Menopause in Women: The Contribution of Estradiol and Inflammation
• The Relationship Between Physical and Social Environments and Violence Involvement Among Youth in Allegheny County, PA: A Spatial Analysis
• Predictors of Weight Loss Following an Intentional Weigh Loss Intervention and Long-term Weight Maintenance in Overweight and Obese Young Adults