

Mailing Address

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Rachel Culbreth, PhD, MPH, RRT
Assistant Professor

I. General Research Interests

- a. Smoking cessation for people living with HIV
 - i. Developing smoking cessation programs for people living with HIV in the U.S.
 - ii. Measuring and developing culturally appropriate, tailored text messaging interventions for people living with HIV outside the U.S.
- b. Electronic cigarettes, vaping, and novel tobacco products
 - i. Assessing the evolving patterns of use
 - ii. Physiological and biological impact of novel vaping products
 - iii. Assessing the factors influencing co-occurrence of tobacco products and other substance use behaviors
- c. Promoting physical and emotional health of infants in the Neonatal Intensive Care Unit (NICU) and their families
 - i. Parenting programs
 - ii. Reducing medical errors in the NICU

II. Current Research Projects

- a. An analysis of toxicology reports among suicide victims in the National Violent Death Reporting Survey (NVDRS) (Role: PI, Funded by APHA)
- b. The Association between Safety Perceptions and Medical Error Reporting among Nurses and Respiratory Therapists in the Neonatal Intensive Care Unit (Role: PI, Funded by Lewis College Intramural Grant Program)

III. Research Skills

- a. Statistical software (SPSS, SAS, R, MPlus, HLM)
- b. Advanced quantitative analyses
 - i. Hierarchical linear modeling/multi-level modeling
 - ii. Structural equation modeling
 - iii. Longitudinal structural equation modeling
 - iv. Latent class/latent transition analyses
 - v. Survival analysis
 - vi. Mediation/moderation analyses
 - vii. Complex survey design
- c. Evaluating physiological impacts on pulmonary system
 - i. Pulmonary function tests
 - ii. Pulmonary assessments