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Associate Professor**

**I. General Research Interest**

- A. Children Who Require Medical Technology
  - 1. Child and adolescent experiences
  - 2. Caregiver perceptions and educational needs
  - 3. Intervention development
  - 4. Health care utilization
  
- B. Methodological Issues, Definitions of the Population, and Theory Development
  - 1. Methods for recruitment and data collection
  - 2. Definitions and terminology
    - a. Children who require medical technology and technology dependence
  - 3. Theoretical and conceptual analysis
    - a. Resilience
    - b. Health literacy
  
- C. Care of Children with Chronic Illness and Complex Care Needs
  - a. Tracheostomy and feeding tube care for children
  - b. Mothers of children with developmental disabilities
  - c. Hemoglobinopathies of sickle cell disease and thalassemia

**II. Current Research Projects**

- A. Web-based Modules to Support Young Children Who Require Medical Technology and Their Caregivers
  - a. Creating Opportunities for Personal Empowerment: Symptom and Technology Management Resources (COPE-STAR)
  
- B. The Use of Actigraphy and Videosomnography to Measure Sleep-Wake Patterns in Mothers and Their School-Aged Children with Developmental Disabilities: A Feasibility Study (Mentor; Lee- PI, nursing)
  
- C. Association between Safety Perceptions and Medical Error Reporting among Nurses and Respiratory Therapists in the Neonatal Intensive Care Unit (Mentor; Culbreath- PI, respiratory therapy)

**III. Research Skills**

- A. Recruitment
- B. Qualitative interviews
- C. Development and adaptation of measures, surveys, and interview guides

- D. Retrospective chart review and data abstraction
- E. Integrative and systematic reviews
- F. Web-based content and interventions
- G. Qualitative and quantitative data analysis