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Melissa Spezia Faulkner, PhD, RN, FAAN
Professor and Lewis Distinguished Chair

I. General Research Interest

- A. Pediatric Chronic Illness, Youth and Parental Adaptation
 - 1. Coping and family resilience
 - 2. Parental and youth quality of life
 - 3. Family management

- B. Pediatric Diabetes, Type 1 or Type 2, and Pediatric Obesity
 - 1. Cardiovascular risks
 - 2. Diet and physical activity
 - 3. Cardiovascular fitness
 - 4. Cardiovascular autonomic measurement; heart rate variability
 - 5. Inflammatory markers
 - 6. Community-based personalized exercise intervention

- C. mHealth Approaches for Pediatric Research
 - 1. Internet-based intervention
 - 2. Text messaging intervention

- D. Transitional Care for Youth with Chronic Illness
 - 1. Strategies for planning care provision to adult health providers

II. Current Research

- A. Differences in Heart Rate Variability and Sleep in African American Adolescent Females versus Males with Type 2 Diabetes
- B. Social, Behavioral and Biological Determinants of Cardiometabolic Risks in African American Adolescents
- C. An Integrative Review on Preconception Counseling in Overweight and Obese Women of Reproductive Age
- D. Development of Early vs. Late Onset Type 2 Diabetes in the Coronary Artery Risk Development in the Young Adults CARDIA Cohort
- E. Development of Diabetes Complications in Persons with Early Versus Late Onset Type 2 Diabetes: Coronary Artery Risk Development in Young Adults CARDIA Cohort
- F. Web-based Modules to Support Young Children Who Require Medical Technology and Their Caregivers
 - 1. Creating Opportunities for Personal Empowerment: Symptom and Technology Management Resources (COPE-STAR)

III.

Research Expertise

- A. Concept analysis
- B. Intervention fidelity assessment
- C. Study design and critique – expertise as NIH grant reviewer for R series grants, K awards, P50 and U54 grant applications
- D. Integrative reviews
- E. Quantitative and qualitative methods and analysis
- F. Accelerometry measurement for physical activity
- G. Twenty-four hour heart rate variability analysis using power spectral and time domain analysis