May 20th, 12:30 PM

Is African-American Girls’ Perception of their Mother-Daughter Relationship Associated to Psychosocial and Physical Activity Variables?

Sarah Burkart  
*University of Massachusetts Amherst*

Brett Winner  
*University of Massachusetts Amherst*

Cory Greever  
*University of Massachusetts Amherst*

*See next page for additional authors*

---

Follow this and additional works at: [https://escholarship.umassmed.edu/cts_retreat](https://escholarship.umassmed.edu/cts_retreat)  
Part of the [Behavior and Behavior Mechanisms Commons](https://escholarship.umassmed.edu/cts_retreat), [Community Health and Preventive Medicine Commons](https://escholarship.umassmed.edu/cts_retreat), [Mental and Social Health Commons](https://escholarship.umassmed.edu/cts_retreat), [Psychology of Movement Commons](https://escholarship.umassmed.edu/cts_retreat), and the [Translational Medical Research Commons](https://escholarship.umassmed.edu/cts_retreat)

[https://escholarship.umassmed.edu/cts_retreat/2014/posters/26](https://escholarship.umassmed.edu/cts_retreat/2014/posters/26)

This material is brought to you by eScholarship@UMMS. It has been accepted for inclusion in UMass Center for Clinical and Translational Science Research Retreat by an authorized administrator of eScholarship@UMMS. For more information, please contact Lisa.Palmer@umassmed.edu.
Presenter Information
Sarah Burkart, Brett Winner, Cory Greever, and Sofiya Alhassan

Comments
Abstract of poster presented at the 2014 UMass Center for Clinical and Translational Science Research Retreat, held on May 20, 2014 at the University of Massachusetts Medical School, Worcester, Mass.

Creative Commons License
This work is licensed under a Creative Commons Attribution-Noncommercial-Share Alike 3.0 License.
Is African-American girls’ perception of their mother-daughter relationship associated to psychosocial and physical activity variables?

Sarah Burkart, Brett Winner, Cory Greever, Sofiya Alhassan, PhD, FACSM, University of Massachusetts Amherst, Amherst, MA

Maternal influence has been reported to play a significant role in the health behaviors of children. In Caucasian girls, it has been reported that mother-daughter relationship can influence psychosocial variables such as physical activity (PA) self-efficacy. Currently, there is very little data on the impact of African-American girls’ perception of their relationship with their mother and psychosocial variables. **PURPOSE:** To examine the association between mother-daughter relationship, PA self-efficacy (PA-SE) and PA levels in African-American girls.

**METHODS:** Baseline data from mothers (n=28; age=37.0±6.7 years; BMI=33.5±10.6 kg/m²) and daughters (n=32; age=9.0±1.2 years; BMI=20.4±5.7 kg/m², 90th percentile) participating in an afterschool mother-daughter PA study was used in this analysis. PA was measured for 7 continuous days using accelerometers. Parental Responsiveness (PR) and Adolescent Openness to Parental Socialization scales were used to assess mother-daughter relationship. Daughters’ self-esteem and depressive symptoms were assessed with the Rosenberg Self-Esteem (RSE) scale and the Child Depression Inventory (CDI), respectively. Participants’ PA-SE was assessed with validated questionnaires. Spearman correlations were used to examine associations between mother-daughter relationship, psychosocial variables, and PA levels. Daughters’ scores for the PR scale were divided into tertiles. Between group (high versus low perception of mother-daughter relationship) differences in psychosocial variables and PA were assessed with t-tests. **RESULTS:** Daughters’ perception of their mother-daughter relationship was positively correlated with RSE (r=0.36, p=0.03); mothers’ PA-SE (r=0.29, p=0.03) and positively correlated with mothers’ PA-SE (r=0.44, p=0.04). With respect to daughters’ PR scale, significant differences in RSE score (HIGH=23.82±4.33; LOW=18.20±4.87, p=0.02) and percent time spent in sedentary activity (HIGH=27.83±32.31; LOW=57.41±20.93, p=0.02) were observed between tertiles. **CONCLUSION:** African-American girls’ perception of their relationship with their mother seems to be associated with self-esteem, depressive symptoms and sedentary pursuits. Future studies should target interventions that improve mother-daughter relationship.

Contact Information:
Sarah Burkart
(908) 910-3027
sburkart@kin.umass.edu
30 Eastman Lane
110 Totman Building
Amherst, MA 01003