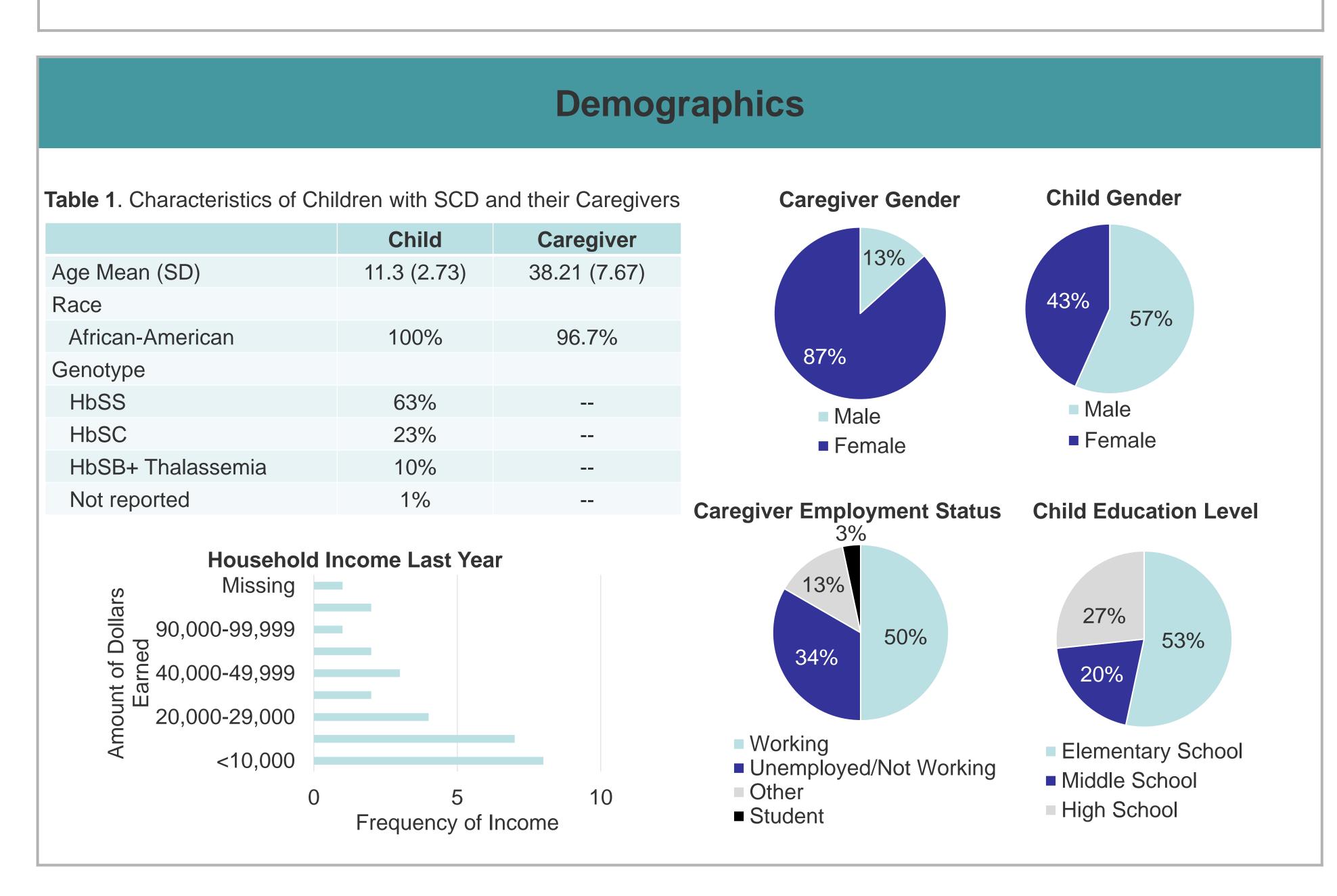


• There is little known about the influence of health-related stigma and racial bias on quality of life (QOL) of children with SCD. The present study assessed these relationships, and additionally, we sought to understand whether there were differences in this relationship with regards to demographic factors (e.g., age, gender).



Older female children experience poorer quality of life when levels of perceived racial bias are high

Anna Hood, PhD, Lori Crosby, PsyD, Jeff Lesenburger, MD, Avi-Madan Swain, PhD, Deanna Rumble, PhD, Zina Trost, PhD

Participants were a convenience sample children with SCD ages 8-16 and their caregivers from a large medical center in the Southern United States. Caregivers provided demographic information. Participants completed:

- culture or country of origin.
- quality of life

Table 2. Scores for children with SCD and their caregivers on measures of stigma, perceived racism, and quality of life.

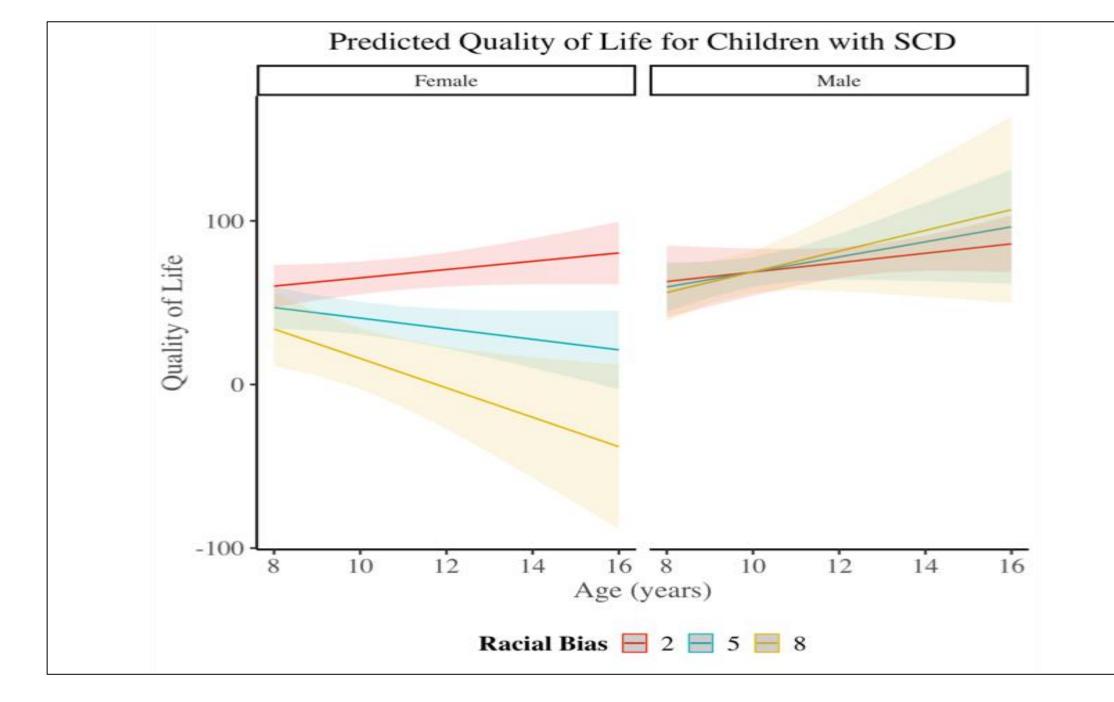
Scales

Stigma Range

Perceived Racism Range

Quality of Life Range

We first assessed whether age, gender, and health-related stigma predicted QOL and demonstrated a significant overall model, F(7, 22) = 4.59, p = .003, r = .46. Health-related stigma (p) = .007) predicted QOL, but neither age or gender were significant predictors. The next model assessed whether age, gender, and racial bias predicted QOL and demonstrated a significant overall model, F(7, 22) = 4.59, p < .001, r = .52. Specifically, age (p = .03), but neither gender or racial bias were significant predictors.



Of interest, there was significant interaction between age, gender, and racial bias (p = .02), which indicated that males generally had higher QOL that did not differ as a function of racial bias or age. Similarly, females who reported low levels of racial bias had higher QOL that did not differ as a function of age. In contrast, females who reported high levels of racial bias had QOL that differed as a function of age. Specifically, older female children who reported high levels of perceived racial bias had poorer QOL.

Methods

• Health-related Stigma. Childhood Stigma Scale (adapted for SCD), is an 8-item scale that measures perceived stigma in children with SCD.

• Perceived Racism. the Child Perceptions of Racism in Children and Youth scale (PRaCY), a 10-item scale that assesses whether children have felt discriminated against because of the color of their skin, language or accent, or because of your

• Quality of Life. The Peds QL Sickle Cell Disease is a 43 item module that assesses health-related quality of life for children with SCD. Higher scores indicate better

Results

Child Mean (SD) Range
3.6 (2.77) 0 – 8
2.2 (1.2) 1 – 5
64.0 (20.9) 24 – 99



Discussion

Health-related stigma is increasingly becoming a major public health issue that requires more focus to better understand the cause. The current study found that children with SCD reported high levels of health-related stigma and perceived racism in their daily lives.

In the current study, health-related stigma and perceived racism predicted quality of life. Of particular interest, the relationship between perceived racism and quality of life differed as a function of age and gender.

Specifically, older female children who reported high levels of perceived racial bias had poorer QOL.

Implications:

Our study highlights the need for increased awareness about the effects of health-related stigma and racial bias in children with SCD and demonstrates that older female children seem particularly affected by racial bias which negatively impacts their QOL. The findings provide new information that could influence the development of future interventions tailored to the specific needs of older female children with SCD.

Limitations:

Due to our sample size, we did not have the power to detect smaller effects. We also used short-form self-report methods. Interviews or following families over time would have added to our study and expanded our knowledge.

Future research should determine the relationship between quality of life, stigma, perceived racism. and pain. Moreover, we could next study the effectiveness of workshops developing the communication skills between physicians and patients. Further, research on the impact of teaching patients about their disease on their perceptions of stigma would provide additional clarity.

References

- 1. Dampier, C., Jaeger, B., Gross, H. E., Barry, V., Edwards, L., Lui, Y., DeWalt, D. A., and Reeve, B. B. (2016). Responsiveness of PROMIS® Pediatric Measures to Hospitalizations for Sickle Pain and Subsequent Recovery. Pediatr Blood Cancer, 63(6), 1038-1045.
- 2. Graves, J Kelly, Hodge, C., & Jacob, E. (2016). Depression, Anxiety, and Quality of Life In Children and Adolescents With Sickle Cell Disease. *Pediatric Nursing*, 42(3), 113–119, 144.
- 3. Rees, D.C., Williams, T.N., and Gladwin, M.T. (2010). Sickle-cell disease. The Lancet, 376(9757), 2018-2031.
- 4. Schlenz, A. M., Schatz, J., & Roberts, C. W. (2016). Examining biopsychosocial factors in relation to multiple pain features in pediatric sickle cell disease. Journal of Pediatric *Psychology*, *41*(8), 930–940.
- 5. Sil, S., Dampier, C., & Cohen, L. L. (2016). Pediatric Sickle Cell Disease and Parent and Child Catastrophizing. Journal of Pain, 17(9), 963–971.
- 6. Sullivan, M. J. L., Bishop, S. R., & Pivik, J. (1995). The Pain Catastrophizing Scale: Development and validation. Psychological Assessment, 7(4), 524–532. doi:10.1037/1040-3590.7.4.524