The Influence of Health-Seeking Behavior on the Health Literacy of Adolescents with Sickle Cell Disease

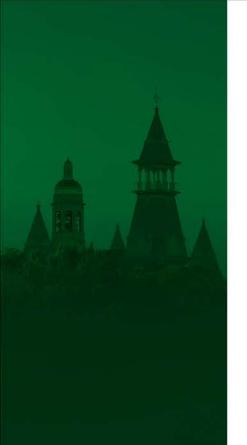
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Speaker Disclosure Statement

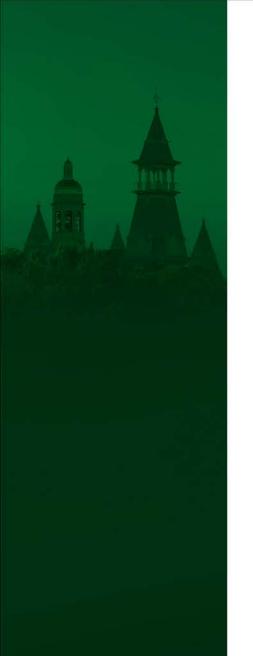
Elizabeth Perry Caldwell, PhD, RN and Libby Rosonet, DNP, RN, CPHON have no industry relationships to disclose.





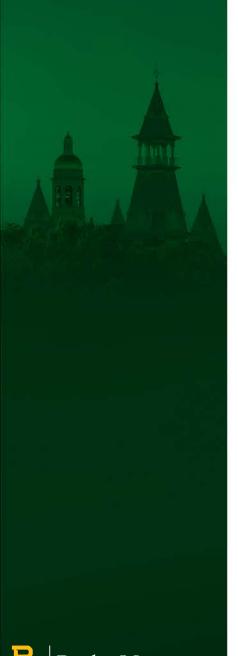
Learning Objectives

- At the end of this presentation, the learner will be able to :
 - define health-seeking behaviors of adolescents with SCD and
 - describe the influence of health-seeking behaviors on health literacy levels in adolescents with SCD.



Background

- •Between 94% and 98% of children with sickle cell disease (SCD) are living to age 18 years and beyond.
- •Significant morbidity and mortality occurs after transfer from pediatric care to adult care
 - Hypothesis: Health literacy plays a role in this transition.



Background

•Health literacy: "the degree to which individuals have the capacity to obtain, process, and understand basic health information and services needed to make appropriate health decisions". (Ratzan & Parker, 2000)



Purpose

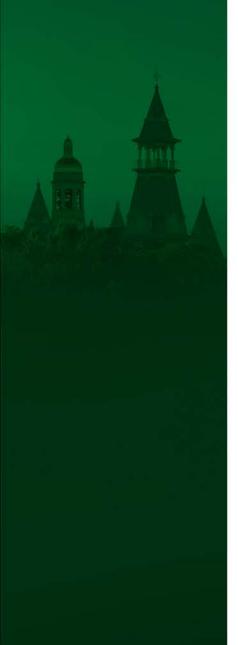
The purpose of this study was twofold:

a) to explore health-seeking behaviors of adolescents with SCD and

b) to determine if there are significant differences in health literacy

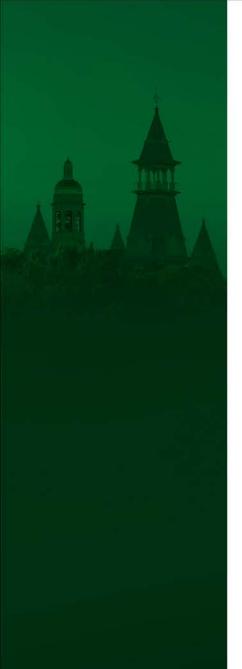
levels of adolescents with SCD based upon health-seeking behaviors.





Methods

- Cross sectional, descriptive study
- •Convenience sampling from large, tertiary care center in Dallas, TX
- •Sample: 134 Black, non-Hispanic adolescents with SCD between 10-19 years of age
- •Inclusion Criteria: Diagnosis of one of the four primary genotypes of SCD, English as primary language and age 10-19 years
- •Health Literacy: Newest Vital Sign (NVS) health literacy instrument



Results

<u>Sample</u>

•134 Black, non-Hispanic adolescents with SCD

•71 males (53.4%) and 62 females (46.6%)

•*Mean age:* 14.8 years (*SD*=2.2)

•Age range: 10.3-18.4 years

•Mean grade level: 8.5

•Mean NVS score: 2.7 (SD=1.6)

Possibility of "limited" health literacy





Results

Research Question 1: Health-seeking behavior

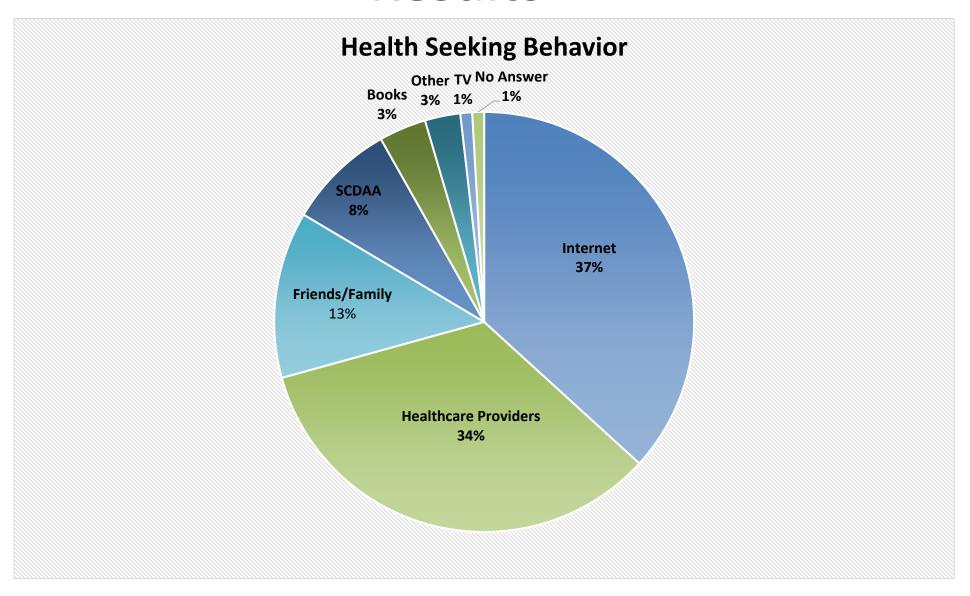
•When asked "Where do you go first for health information?" 110 participants responded.

•The two most common responses were **the Internet** (29.6%; n=40) and **health care providers** (27.4%; n=37)

No participants chose "radio" or "magazines"

Baylor University

Results





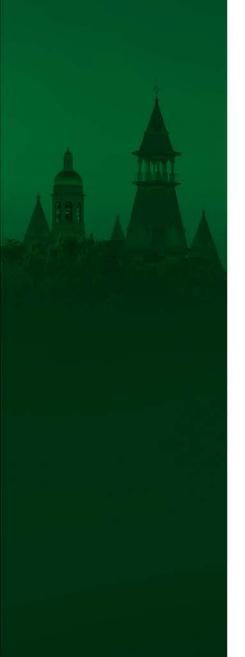
Results

Research Question 2: Health-seeking behavior and health literacy

 There was no difference in health literacy scores based on healthseeking behaviors

NVS Scores Based on Health-Seeking Behaviors

	Mean (n)	Standard
		Deviation
The Internet	2.5 (40)	1.6
Healthcare Providers	2.9 (<i>37</i>)	1.3
Friends and Family	3.2 (14)	1.6
SCDAA	2.1 (9)	1.5
Books	3.3 (4)	2.4
Other	2.3 (<i>3</i>)	1.5



Discussion

- •Different results than previous studies that show African-American adolescents go 1st to friends and family (Manganello, 2016)
 - •Caregiver health literacy does *NOT* influence adolescent health literacy in adolescents with SCD (also different) (Caldwell, 2019).
 - •Perhaps because chronic illness (previously only 12% had chronic illness) leads to more independence and trust with healthcare providers?



Discussion

- •Web-based interventions?
- •Healthcare providers' responsibility?
- •Role of family and peers?



Discussion

•Future Research:

- National sample
- Measure e-Health literacy
- •Further evaluation of technology (using smartphones or computers?)
- Development of health and health literacy interventions in adolescents with SCD



Conclusions

- •Adolescents with SCD prefer the Internet and healthcare providers as their 1st source of health information.
- •There is *no relationship* between type of health-seeking behavior and health literacy of adolescents with SCD.
- •Future research is indicated to provide more insight into both of these findings.



Acknowledgements

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