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Luz Maria Carreno Utah State University

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Health Literacy and Children Language Brokers: How Bilingual Children and Spanish- Speaking Parents Navigate the Medical Setting



Luz Maria Carreno, Utah State University | Lisa Guntzviller, Ph. D., Utah State University | Jake Jensen, Ph.D., University of Utah

I. Introduction

Patients' health literacy, or ability to comprehend and understand health information, influences their health status, knowledge about medical care and conditions, and hospitalization and adherence rate (Andrus, & Roth, 2002). Lack of an adequate understanding of health literacy can place patients in a very vulnerable position and lead to serious consequences such as poor health status, lack of knowledge about medical care and medical conditions, decreased comprehension of medical information, and increased hospitalization (Andrus & Roth, 2002). Low-English proficiency patients are especially at risk, given they must overcome English and health literacy barriers.

Oftentimes, children of patients with limited English language skills will language broker, or translate cultural and linguistic information for their parents (Morales & Hanson, 2005).

RQ1: What are health literacy levels of children who language broker?

RQ2: How do parents and children combine their knowledge, as the skills of one may compensate for the skills of the other?

Study conducted with funding from Purdue University's Center for Families.

Luz Maria Carreno Utah State University Sociology, Social Work, & Anthropology Luz_maria.c@aggiemail.usu.edu

II. Methods

Survey data was collected from 100 parent-child dyads of low-income, predominantly Mexican heritage households from the Chicago area to measure health literacy levels among parents and children using the Test of Functional Health Literacy Assessment (TOFHLA; Parker et al., 1995). SPSS was used to correlate the variables and analyze the data.

Figure 1 – Demographics

	N	Mean	SD	Min & Max
Children				
Ability to speak English	100	3.64	0.65	1 to 4
Speak Spanish	100	3.53	0.65	1 to 4
Health Literacy Levels	99	76.77	19.59	16 to 100
Age	100	13.22	2.07	9 to 18
Male	45			
Female	55			
Parents				
Ability to understand English	100	2.09	0.91	1 to 4
Speak English	100	1.54	0.67	1 to 3
Read English	100	1.71	0.76	1 to 4
Write in English	100	1.55	0.79	1 to 4
Foreign Language Anxiety	100	3.49	1.25	1 to 5
Self- Efficacy	100	2.92	0.77	1 to 4
Age	100	37.96	5.66	25 to 56
Male	13			
Female	86			

Health Literacy Example

PENICILLIN VK
250MG 40/0
Take one tablet by
mouth four times a day

Corresponding question based on the medicine label to the left:

If you take your first tablet at 7:00am, when should you take the next one?

should you take the next one?

Accepted answers: 10am (12 hr day) to 3pm
(24 hr day)

III. Results

Research Question 1

Results revealed that 25% of language brokers had inadequate health literacy (i.e., below an 8th grade level); 75% had adequate health literacy.

*See Figure 2.

Research Question 2

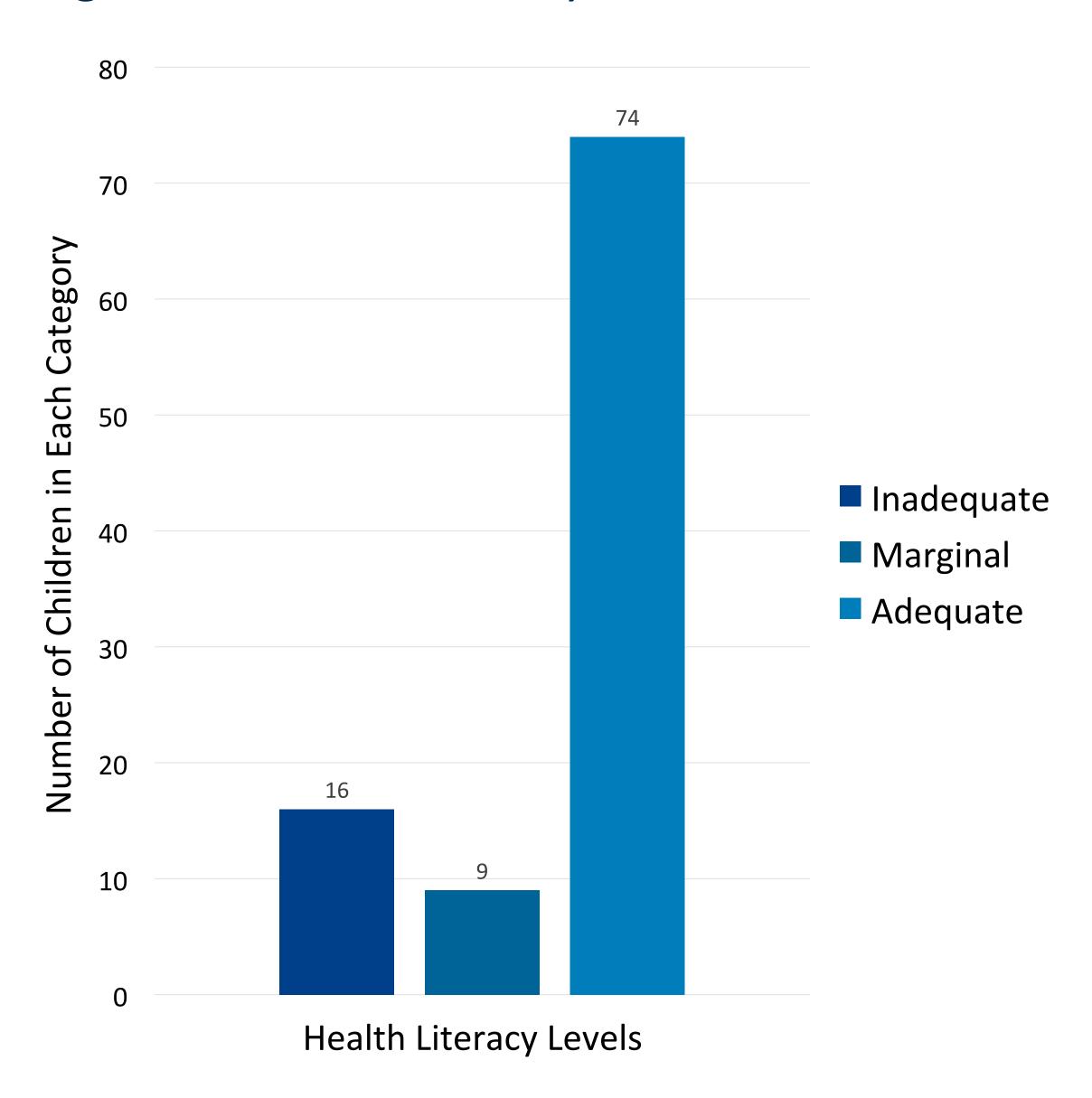
Child health literacy levels correlated with parent self-efficacy (r = -.28**), parent foreign language anxiety (r = .29**), and parent ability to read English (r = .23*). Child health literacy increased as parent self- efficacy decreased. Parent Foreign Language Anxiety and parent ability to read English were positively correlated with child health literacy levels. As each variable increased, child health literacy level increased as well.

IV. Conclusions

Many children brokers have functional health literacy. While parents may help their children increase health literacy in low-pressure situations (e.g., reading English documents), during a medical conversation, parents who are anxious and lack self-efficacy have children who compensate with increased health literacy for the parent's lack of social skills.

Having low health literacy levels and a lack of English skills can affect both the child and parent. It can affect the parent physically and mentally if the parent does not receive adequate information about the health issues. Also, brokering in this setting can be very stressful on the child, especially if the child does not have the skills necessary to successfully navigate the situation.

Figure 2 – Health Literacy Levels of Children



V. References

Andrus, M. R., & Roth, M. T. (2002). Health literacy: A review. *Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy*, 22(3), 282-302.

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