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Evaluating Knowledge of Developmental Disabilities Among WIC Participants

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Background

- One in six children in the U.S. has a developmental disability (DD)¹ such as intellectual disability, language delay, autism spectrum disorder (ASD), attention deficit hyperactivity disorder (ADHD) or Down Syndrome.
- Early diagnosis of DDs improves long-term child development and improves family coping strategies; ^{3,4} however, under-diagnosis and late diagnosis are more prevalent in low-income and racial/ethnic minority families.
- The Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) is a national public health program that has been providing health screenings, nutritional education, referrals and supplemental foods for the last 40 years.²
- WIC may be a promising setting for early identification of DDs since little is known about the reasons behind late diagnosis amongst minority children.

Objectives

- To assess what parents attending WIC know about typical child development and common developmental conditions of early childhood.
- To evaluate the connection between ethnicity and English proficiency in WIC participant knowledge of child development and in knowing someone with a developmental condition.

Methods

- Parents (n=539) with children 24-59 months of age attending WIC clinics in six Oregon counties were asked to complete a survey in English or Spanish.
- Two bilingual, bicultural research assistants helped parents needing oral administration.
- Survey items included:
 - Questions asking whether parents' know individuals with DDs
 - "Quiz" on signs of typical and atypical child development
 - Parents' familiarity with DDs
 - Parents' race/ethnicity, educational attainment, and English proficiency

Respondent Demographics

Characteristics

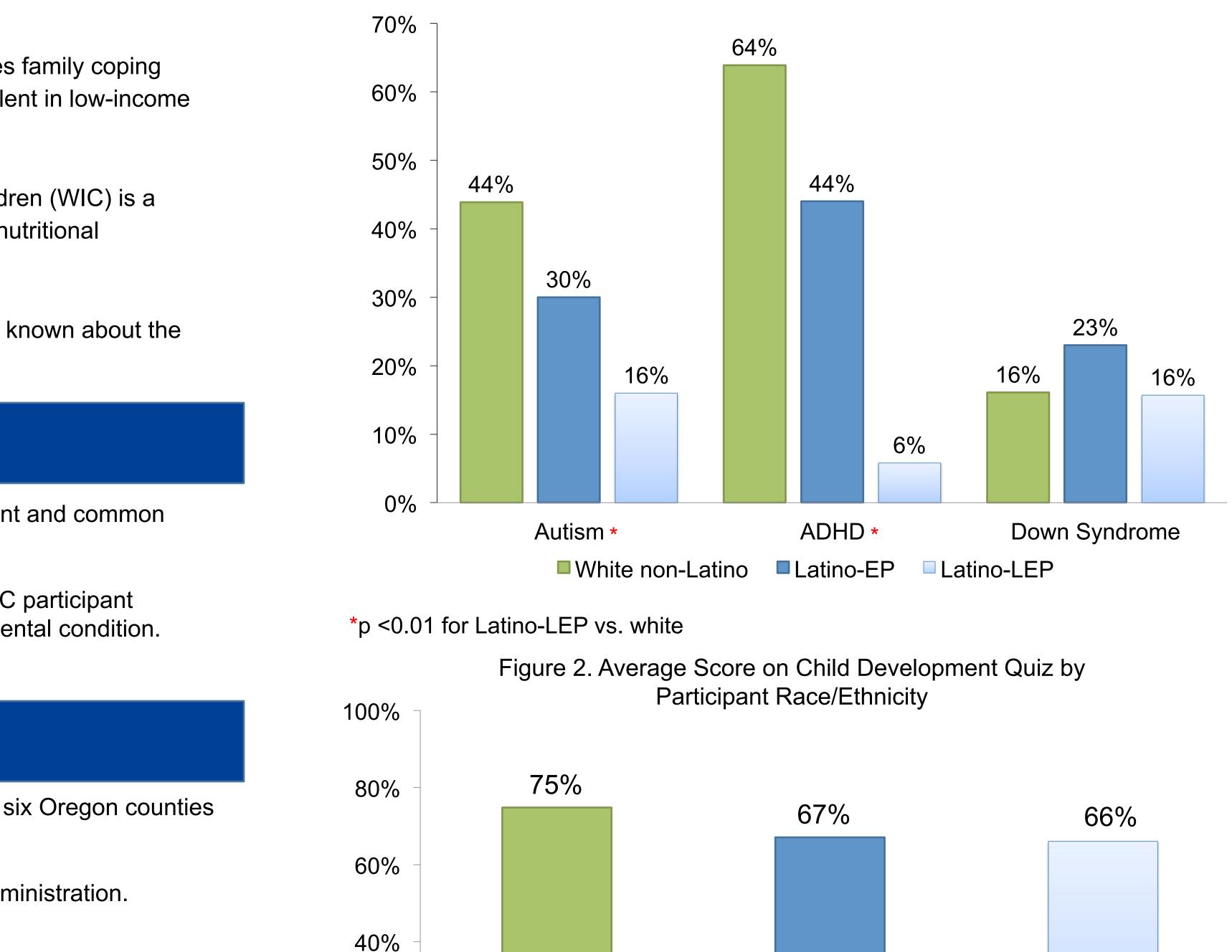
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Parent Gender Female Male **Parent Race/Ethnicity** Non-Latino white Latino - English proficient (EP) Latino - limited English proficient (LEP) **Education Level** 8th grade or less High school graduate or GED completed Some college education Associate or Bachelor's degree completed

Evaluating Knowledge of Developmental Disabilities Among WIC Participants Carolina Regalado; Alison Chavez, B.A.; Julie Reeder, Ph.D., M.P.H.; Katharine Zuckerman, M.D., M.P.H.

Results





91% 9% 31% 20% 38% 38% 16% 28% 34% 6% 31	ntage or Mean (N=539)		
9% 31% 20% 38% 38% 16% 28% 34% 6%			
31% 20% 38% 16% 28% 34% 6%	91%		
20% 38% 16% 28% 34% 6%	9%		
20% 38% 16% 28% 34% 6%			
38% 16% 34% 6%	31%		
16% 28% 34% 6%	20%		
28% 34% 6%	38%		
28% 34% 6%			
34% 6%	16%		
6%	28%		
	34%		
31	6%		
	31		

*p <0.01 for Latino-LEP vs. white

20%

0%

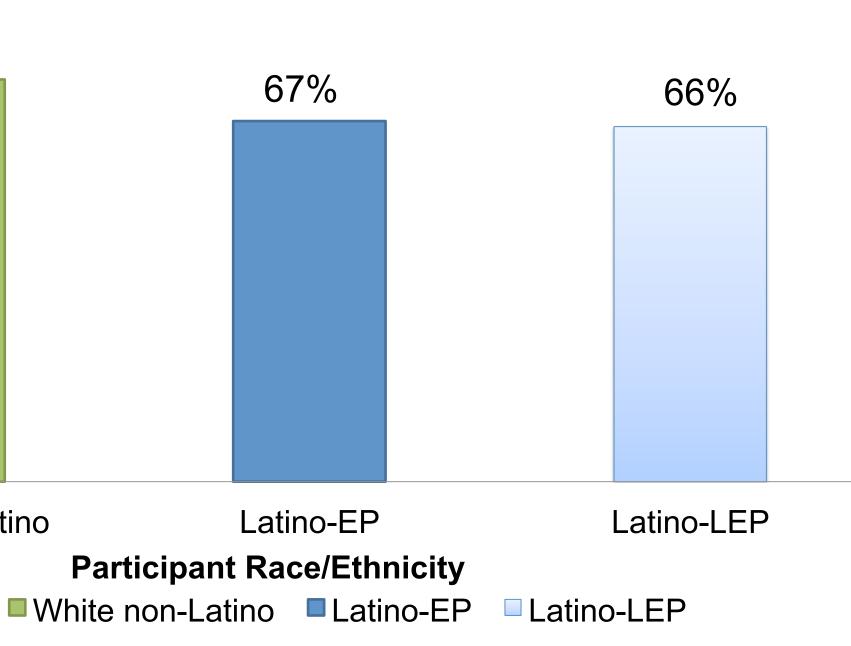
Conclusions and Implications

White non-Latino

Suggestions for Creating Awareness about Disabilities

- alternatives for teaching Latino families about the early signs of DDs.

1. Boyle CA, Boulet S, Schieve L, Cohen RA, Blumberg SJ, Yeargin-Allsopp M, Visser S, Kogan MD. Trends in the Prevalence of Developmental Disabilities in US Children, 1997–2008. Pediatrics. 2011. 2. Myers SM and Johnson CP. Management of Children With Autism Spectrum Disorder. Pediatrics 120 (5) November, 2007 3.. Zuckerman K, Sinche B, Mejia A, Cobian M, Becker T, Nicolaidis C. Latino parents' perspectives on barriers to autism diagnosis. Academic Pediatrics 14 (3) May- June 2014. 4. Prevalence and Characteristics of Autism Spectrum Disorders Amongst Children Aged 8, 2016. Autism and Developmental Disabilities Monitoring Network, 11 sites, United States, 2012. MMWR Surveillance Summary, 65 (3). 5. Johnson CP, Myers SM, and the Council on Children With Disabilities. Identification and Evaluation of Children With Autism Spectrum Disorders. Pediatrics 134 (5), November 2007 6. Zuckerman K, Sinche B, Mejia A Cobian M, Becker T, Nicolaidis C. Conceptualization of autism in the Latino community and its relationship with early diagnosis. Journal of Developmental and Behavioral Pediatrics 35(8) October, 2014.



Lack of information and awareness about DDs may constitute a significant barrier to DDs identification within the Latino population.

Since low health literacy may be an obstacle to understanding written health information, visual and auditory materials on child development in English and Spanish may be viable

Encourage Spanish language media exposure, community outreach, and public presentations focusing on recognizing typical and atypical child development.

Increase knowledge and awareness of DDs in the Latino community by providing information and support in areas Latinos frequent for healthcare services, such as WIC clinics. Support services could take the form of organized parent support groups focused on sharing concerns about developmental conditions.

Inform healthcare providers on how to educate the Latino community about early signs of developmental disabilities.

Advise WIC participants with limited English proficiency to take advantage of interpreter availability during doctor visits to ensure they communicate all healthcare concerns.

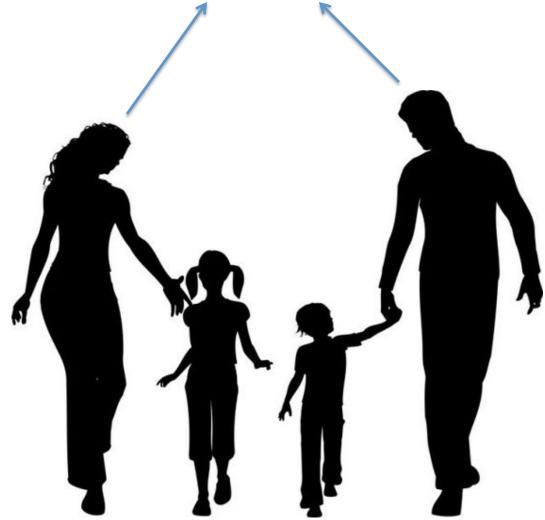
Who Would Participants Advise a Friend Talk to about Developmental Concerns?

Doctor: 84%

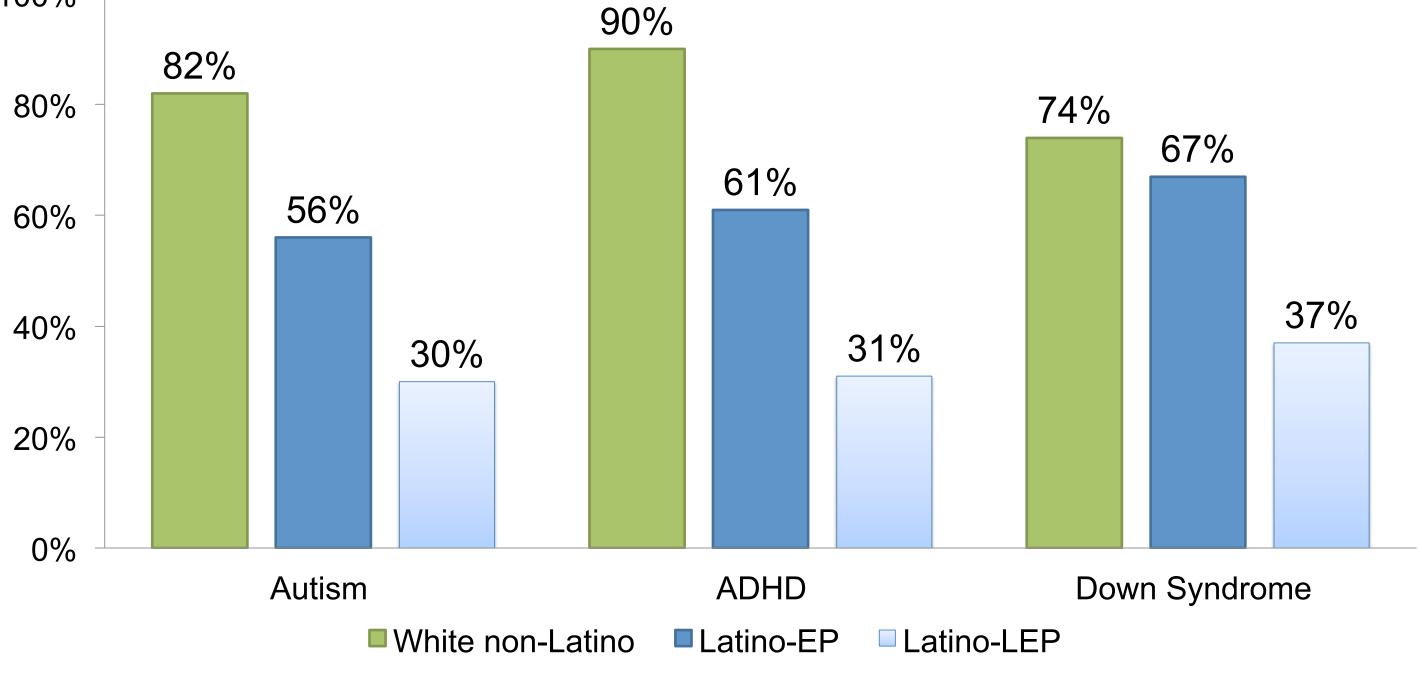
Partner or Spouse: 48%

WIC Staff: 29%

Family Member: 28%



100%





to ?	Summary of Results:
-	 Compared to white non-Latinos, Latinos with LEP were significantly less likely to know someone with ASD or ADHD.
	 After doctors and partners/spouses, WIC is the third most frequent source of information about child development for respondents.
	 Latinos with LEP had significantly less knowledge about typical child development than white non- Latino participants.
	 Latinos with LEP were less likely than white non- Latino and Latino-EP groups to report knowing "a lot" or "a little" (versus "never heard of it") about ASD, ADHD, and Down syndrome.

Overall, Latino-EP respondents tended to act more similarly to white non-Latinos than to Latino-LEP respondents, suggesting English proficiency may play a critical role in knowing about DDs and child development.

Figure 3. Percentage of Participants Who Reported Knowing "A Little" or "A Lot" about Developmental Disabilities