Impact of the Affordable Care Act on Health Care Access and Utilization Among Latinos

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Introduction: In the United States, Latinos have poorer access to and utilization of health care than non-Latino whites. The Patient Protection and Affordable Care Act (ACA) may reduce these disparities. The ACA’s impact among Latino subgroups is unknown.

Methods: Using the 2011 to 2015 National Health Interview Survey, we examined access to and utilization of health care by Latino subgroups (18–64 years old). Subgroups were defined by Latino heritage group, citizenship status, and language use. Measures of access and utilization included insurance status, delaying medical care, forgoing medical care, visiting the emergency department, and visiting a physician. Logistic regression models were used to estimate the odds of the outcomes. Time period and subgroup interaction terms were used to test the effects of the ACA.

Results: Mexicans and Central Americans had lower odds of being insured than did non-Latino whites. After ACA implementation, most reductions in disparities occurred between Puerto Ricans and non-Latino whites. Limited impact of the ACA was observed by language and citizenship status.

Conclusions: The ACA has reduced gaps in access to and utilization of health care for some Latino population subgroups. Remaining disparities necessitate policy solutions that move beyond the ACA, particularly for groups excluded from coverage options, such as noncitizens. (J Am Board Fam Med 2017;30:52–62.)

Keywords: Emergency Service, Hospital; Hispanic Americans; Insurance Coverage; Language; Logistic Models; Patient Protection and Affordable Care Act; Surveys and Questionnaires

With the rollout of provisions in the Patient Protection and Affordable Care Act (ACA), the percentage of uninsured Americans has dropped from 20% in 2010 to 16% in 2014. Expansion of coverage to young adults and elimination of cost-sharing for some preventive services have led to an increase in the use of some, but not all, health services. The implementation of key ACA provisions in 2014 (ie, Medicaid expansion, creation of insurance exchanges, provision of subsidies for the purchase of insurance, the individual mandate, and changes to insurance pricing, benefits, and accessibility) has also led to improved access to and utilization of care.

Despite gains, racial and ethnic disparities remain: Latinos perform worse on most measures of access and utilization than non-Latino whites. Reasons for these persistent disparities are multifaceted but include factors such as citizenship status, language, socioeconomic factors, and a lack of awareness of the ACA’s provisions, and these make it difficult for Latinos to benefit from the law. To understand the full impact of the ACA on health care disparities among Latinos, it is important to examine not only disparities in access and utilization between racial and ethnic groups (eg, Latinos vs non-Latino whites) but also how the ACA has affected outcomes within groups based on factors such as Latino heritage group, language, and nativity.
Evidence suggests that the impact of the ACA among Latinos has differed by language spoken and limited English proficiency (LEP). In Oregon, the percentage of Spanish-speaking Latinos without insurance dropped from 64.3% before the implementation of the ACA to 13.7% after Medicaid was expanded in the state.9 Similarly, California’s early expansion of coverage through a waiver made possible by ACA10,11 resulted in the greatest gains in public coverage among Latinos with LEP.12 The large benefits experienced by Spanish-speaking Latinos may be due to the large proportion of the group living in households with an income below eligibility thresholds for Medicaid expansion, as well as previous patterns of poor use of health care services among Spanish-speaking Latinos13–15 before the ACA.

Before the ACA, foreign-born Latinos had a more negative pattern of access to and utilization of health care than did their US-born counterparts.16–18 This is partially attributable to the poorer patterns of access to and utilization of health care among noncitizens, with undocumented individuals being of particular concern.16,19 For example, even when accounting for insurance status, noncitizens and undocumented individuals use primary care and emergency department (ED) care at lower rates than US citizens.19,20 These patterns may stem from the unique barrier presented by fears that health care will be denied because of documentation status or that they will be deported if they attempt to seek care.21,22 This and other barriers, such as cost of care and lack of language-concordant care, may drive undocumented and noncitizen individuals to return to their home countries to seek care,23–25 thus adding the barrier of international travel for accessing health services. Because the ACA excludes undocumented individuals from benefits, the impact of the ACA’s implementation will be limited for this group.26 Over time, a larger proportion of the remaining uninsured are likely to be undocumented.27

Research in disparities in access to and utilization of health care by different Latino heritage groups has received limited attention in the period after ACA implementation. However, disparities were documented before the ACA. For example, Mexican-heritage Latinos had the lowest rates of insurance coverage and Puerto Ricans had the highest.28 Similar patterns are observed when examining use of health care services by heritage group.18,29–32 Differences by heritage group are not surprising given that some groups—by virtue of being US citizens (ie, Puerto Ricans) or being granted refugee status (ie, Cubans)—have easier access to insurance and health care than groups who have higher proportions of undocumented individuals (ie, Mexican and Central Americans).7,33 Relatedly, underlying socioeconomic differences between groups34 suggest differential gains under the ACA due to income thresholds for expanded coverage options.

This study examines the impact of policies implemented in 2014 as part of the ACA regarding access to and utilization of health care (ie, insurance status, delays in medical care, forgoing medical care, physician visits, and visits to the ED) among Latino population subgroups. We have the following 3 aims: (1) to examine trends in access to and utilization of health care by Latino heritage groups; (2) to determine the independent effects of heritage group, nativity, and language on access to and utilization of health care; and (3) to determine the independent effects of the ACA provisions implemented in 2014 on access to and utilization of health care by heritage group, language, and nativity. Results highlight subgroups of the Latino population on whom the initial insurance expansion of the ACA has had limited impact.

Methods

Data

Data for this study come from the 2011 to 2015 waves of the National Health Interview Survey (NHIS). This annual survey is representative of noninstitutionalized adults in the United States. This study was restricted to the 65,703 non-Latino whites and 20,764 Latino adults (1,995 Puerto Ricans, 12,983 Mexicans, 871 Cubans, 3,592 Central Americans, and 1,323 other Latinos) who were between 18 and 64 years old, had complete data for all variables used in the analyses, and did not identify with more than 1 Latino heritage group.

Measures

Outcomes of interest encompassed frequently used measures of access to and utilization of health care.6,35,36 Access indicators included dichotomous measures of (1) health insurance status (currently insured); (2) delaying necessary medical care, excluding dental care, because of costs in the past 12
months; and (3) forgoing necessary medical care, excluding dental care, because of costs in the past 12 months. Utilization indicators included dichotomous measures of (1) having had at least 1 ED visit in the past 12 months, even if this visit resulted in admission to the hospital; and (2) having had a physician (in general practice, family medicine, or internal medicine) visit in the past 12 months.

Key grouping variables included a measure of Latino heritage group or race (non-Latino white, Central American, Cuban, Mexican, Puerto Rican, and other Latino), citizenship status (US-born, naturalized citizen, and noncitizen), and language of survey administration (English, Spanish, and other language). While the ACA excludes specific non-citizen groups (ie, undocumented or legally authorized, but in the country <5 years) from benefits, some noncitizens do qualify for benefits, and their eligibility varies by state (eg, California allows the undocumented to participate in the Marketplace, and legally authorized immigrants who have been in the US <5 years can participate in Medicaid); thus noncitizens were included in the analyses.

To understand how access to and use of health care changed over time as provisions of the ACA were implemented, variables representing the year of the NHIS survey were included in some models (Table 2). In other models (Tables 3 and 4), a dichotomous measure of time period (before the ACA and after the ACA) was included. The period before the ACA included NHIS data from 2011 to 2013, and the period after the ACA included NHIS data from 2014 and 2015. To understand whether changes over time varied between Latino subgroups, interaction terms between subgroup indicators and the dummy-coded variable for the time period were also included.

Several variables were included in analyses as potential confounders based on the literature \cite{6,38}: age (18–24, 25–34, 35–44, 45–54, or 55–64 years), sex (male or female), marital status (married or other), family income (<100%, between 100% and 200%, or >200% of the federal poverty level), educational attainment (less than high school, high school, some college, college, or more than college), US Census region (Northeast, Midwest, South, or West), self-reported health status (excellent, very good, good, fair, or poor), chronic conditions (hypertension, coronary artery disease, heart condition/disease, asthma, cancer, or diabetes), and having functional limitations (yes or no).

**Analyses**

Statistical analyses were conducted by pooling the 2011 to 2015 waves of the NHIS. Analyses were conducted using Stata 14.0, using weights to provide estimates that were nationally representative. Descriptive statistics were calculated for each Latino heritage group, and the $\chi^2$ test was used to compare results by heritage group.

Logistic regression models were estimated for each of the 5 outcomes to determine whether year, Latino heritage group, citizenship status, and language of survey administration were associated with odds of the outcomes. These models included all aforementioned controls along with survey year, Latino heritage group, citizenship status, and language of survey administration (Table 2). Then models with 1 of the following interaction terms (along with the time period and grouping variable used to create the interaction) were run to test the hypothesis that the impact of ACA implementation varied by grouping variable: (1) heritage group $\times$ time period (Table 3); (2) citizenship status $\times$ time period (Table 4); and (3) language of survey administration $\times$ time period (Table 4). Thus interactions consisted of a grouping variable multiplied by a dummy variable for time period (before or after the ACA). For interpretation, only 1 of these interaction terms was entered into the model at a time. Stratified analyses were not conducted because odds ratios in stratified models, particularly when outcomes are not rare, are not comparable \cite{39,40}. Models for citizenship and language were restricted to Latino respondents, with the latter excluding individuals completing the NHIS in a language other than English or Spanish. Last, the outcome variables were plotted by year and Latino heritage group to allow for the examination of changes over time within a particular heritage group.

**Results**

**Trends in Access to and Utilization of Health Care**

Figure 1 depicts the trends in access to and utilization of health care by Latino heritage groups. Broadly speaking, from 2011 to 2015, access to and utilization of care improved among most groups, with notable exceptions for ED visits and forgoing care or delaying care among the “other Latino”
group. However, improvements were not linear; some groups saw improvement immediately after ACA provisions were enacted (i.e., in 2014), only to lose ground in the subsequent year. Specifically, some groups saw poorer patterns of delaying care (Cubans, Central Americans, and other Latinos), forgoing care (Mexicans and Cubans), having an ED visit (Cubans, Central Americans, and other Latinos), and visiting a physician (non-Latino whites, Mexicans, Cubans, and Central Americans).

Characteristics of the Sample
Table 1 shows the characteristics of the sample by Latino heritage group. All characteristics were significantly different across heritage groups. Puerto Ricans composed the largest proportion of US-born individuals, whereas Mexicans had the largest proportion of noncitizens. Puerto Ricans had the largest proportion of individuals completing the interview in English, whereas Cubans had the largest proportion completing the interview in Spanish.

Impact of Latino Heritage Group, Nativity, Language, and Survey Year on Access to and Utilization of Health Care
Table 2 shows logistic regression models for all outcomes. Health care access and utilization varied significantly across survey periods. The odds of being insured were greater in 2014 and 2015 relative to 2011, whereas the odds of delaying care or forgoing care were lower in 2014 than in 2011. Odds of seeking care in an ED were lower in 2014 than in 2011, whereas odds of having a physician visit were greater in 2014 than in 2011. Mexicans and Central Americans had lower odds of being insured relative to non-Latino whites. Mexicans had lower odds of delaying care than non-Latino whites. Cubans and Central Americans had higher odds of forgoing any care relative to non-Latino whites. Puerto Ricans and other Latinos had higher odds of using the ED when compared with non-Latino whites. Mexicans had lower odds of using the ED and having a physician visit when compared with non-Latino whites.

Also shown in Table 2, naturalized citizens and noncitizens had lower odds of being insured than US-born citizens. Noncitizens had lower odds of using an ED than US-born citizens. Naturalized citizens had higher odds and noncitizens had lower odds of having a physician visit than US-born citizens. Respondents who completed the NHIS in Spanish had lower odds of being insured, forgoing care, using an ED, and having a physician visit when compared with respondents who completed the NHIS in English. Respondents who completed the NHIS in another language had lower odds of being insured when compared with respondents who completed the NHIS in English.

Impact of ACA on Heritage Group Disparities
Table 3 shows models with Latino heritage group × time period interaction terms. Results
### Table 1. Sample Characteristics, by Heritage Group, 2011 to 2015 National Health Interview Survey (N = 86,467)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total (n = 86,467)</th>
<th>Non-Latino White (n = 65,703)</th>
<th>Puerto Rican (n = 1,995)</th>
<th>Mexican (n = 12,983)</th>
<th>Cuban (n = 871)</th>
<th>Central American (n = 3,592)</th>
<th>Other Latino (n = 1,323)</th>
<th>P Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>2013</td>
<td>17,036</td>
<td>19.70</td>
<td>12,882</td>
<td>19.61</td>
<td>401</td>
<td>20.10</td>
<td>2,592</td>
<td>19.96</td>
</tr>
<tr>
<td>2015</td>
<td>16,818</td>
<td>19.45</td>
<td>12,877</td>
<td>19.60</td>
<td>396</td>
<td>19.85</td>
<td>2,446</td>
<td>18.84</td>
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</table>

**Citizenship status**
- US-born: 71,176 (82.32%), 62,683 (95.40%), 1,151 (57.69%), 5,836 (44.95%), 269 (30.88%), 587 (16.34%), 650 (49.13%)
- Naturalized: 6,492 (7.51%), 1,949 (2.97%), 153 (7.67%), 3,131 (24.12%), 396 (45.46%), 1,125 (31.32%), 389 (29.40%)
- Non–US citizen: 8,799 (10.18%), 1,071 (1.63%), 91 (0.14%), 913 (6.70%), 284 (21.47%), 284 (21.47%)

**Interview language**
- English: 81,206 (93.92%), 65,574 (99.80%), 1,841 (92.28%), 9,843 (75.81%), 473 (54.31%), 2,436 (67.82%), 1,019 (78.53%)
- Spanish: 5,151 (5.96%), 38 (0.06%), 153 (7.67%), 3,131 (24.12%), 396 (45.46%), 1,149 (31.32%), 389 (29.40%)
- Other: 110 (0.13%), 91 (0.14%), 1 (0.05%), 9 (0.07%), 2 (0.23%), 7 (0.19%), 0 (0.00%)

**Age (years)**
- 18–24: 9,794 (11.33%), 6,828 (10.39%), 274 (13.73%), 2,004 (15.44%), 80 (9.18%), 451 (12.56%), 157 (11.87%)
- 25–34: 18,736 (21.67%), 13,384 (20.37%), 478 (23.96%), 3,441 (26.50%), 158 (18.14%), 964 (26.84%), 311 (23.51%)
- 35–44: 18,638 (21.56%), 13,136 (19.99%), 468 (23.46%), 3,564 (27.45%), 210 (24.11%), 980 (27.28%), 280 (21.16%)
- 45–54: 19,301 (22.32%), 15,207 (23.15%), 412 (20.65%), 2,387 (18.39%), 250 (28.70%), 731 (20.35%), 314 (23.73%)
- 55–64: 19,998 (23.13%), 17,148 (26.10%), 363 (18.20%), 1,587 (12.22%), 173 (19.86%), 466 (12.97%), 261 (19.73%)

**Female sex**
- 45,998 (53.20%), 34,556 (52.59%), 1,189 (59.60%), 7,047 (54.28%), 451 (51.78%), 1,959 (54.54%), 796 (60.17%)

**Married**
- 44,919 (51.95%), 34,401 (52.36%), 710 (35.59%), 7,002 (53.93%), 435 (49.94%), 1,849 (51.48%), 522 (39.46%)

**Family income**
- <100% FPL: 14,647 (16.94%), 8,672 (13.20%), 664 (33.28%), 3,796 (29.24%), 204 (23.42%), 912 (25.39%), 399 (30.16%)
- 100–200% FPL: 15,534 (17.97%), 9,536 (14.51%), 430 (21.55%), 3,980 (30.66%), 210 (24.11%), 1,057 (29.43%), 321 (24.26%)
- >200% FPL: 56,286 (65.10%), 47,495 (72.29%), 901 (45.16%), 5,207 (40.11%), 457 (52.47%), 1,623 (45.18%), 603 (45.58%)

**Education**
- Less than high school: 11,520 (13.32%), 4,400 (6.70%), 474 (23.76%), 5,108 (39.34%), 103 (11.83%), 1,133 (31.54%), 302 (22.83%)
- High school: 20,410 (23.60%), 15,027 (22.87%), 566 (28.37%), 3,410 (26.27%), 282 (32.38%), 806 (22.44%), 319 (24.11%)
- Some college education: 17,496 (20.23%), 13,900 (21.66%), 400 (20.05%), 2,187 (16.85%), 110 (12.63%), 613 (17.07%), 286 (21.62%)
- College degree: 27,919 (32.29%), 24,053 (36.61%), 458 (22.96%), 1,934 (14.90%), 302 (34.67%), 826 (23.00%), 346 (26.15%)
- More than college degree: 9,122 (10.55%), 8,323 (12.67%), 97 (4.86%), 344 (2.65%), 74 (8.50%), 214 (5.96%), 70 (5.29%)

P Value: .304
### Table 1. Continued

<table>
<thead>
<tr>
<th></th>
<th>Total (n = 86,467)</th>
<th>Non-Latino White (n = 65,703)</th>
<th>Puerto Rican (n = 1,995)</th>
<th>Mexican (n = 12,983)</th>
<th>Cuban (n = 871)</th>
<th>Central American (n = 3,592)</th>
<th>Other Latino (n = 1,323)</th>
<th>P Value</th>
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<td><strong>US Census region</strong></td>
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<td>Northeast</td>
<td>13,989</td>
<td>16.18</td>
<td>11,211</td>
<td>17.06</td>
<td>1,051</td>
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<td>South</td>
<td>28,387</td>
<td>32.83</td>
<td>21,104</td>
<td>32.12</td>
<td>567</td>
<td>28.42</td>
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<td>28.25</td>
<td>15,580</td>
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<tr>
<td>Excellent</td>
<td>25,933</td>
<td>29.99</td>
<td>20,164</td>
<td>30.69</td>
<td>474</td>
<td>23.76</td>
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<td>23,012</td>
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<tr>
<td>Poor</td>
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<td>1,807</td>
<td>2.75</td>
<td>98</td>
<td>4.91</td>
<td>314</td>
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<tr>
<td><strong>Chronic conditions</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Hypertension</td>
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<td>23.39</td>
<td>16,374</td>
<td>24.92</td>
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<td>60</td>
<td>3.01</td>
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<td>5.61</td>
<td>4,223</td>
<td>6.43</td>
<td>113</td>
<td>5.66</td>
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<td>2.69</td>
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<td>Asthma</td>
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<td>12.94</td>
<td>9,088</td>
<td>13.76</td>
<td>480</td>
<td>24.06</td>
<td>1,089</td>
<td>8.39</td>
</tr>
<tr>
<td>Cancer</td>
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<td>5.93</td>
<td>4,639</td>
<td>7.06</td>
<td>82</td>
<td>4.11</td>
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<tr>
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<td>6.84</td>
<td>4,266</td>
<td>6.49</td>
<td>208</td>
<td>10.43</td>
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<td>Any functional limitation</td>
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<td>30.08</td>
<td>21,145</td>
<td>32.18</td>
<td>715</td>
<td>35.84</td>
<td>2,958</td>
<td>22.78</td>
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</table>

FPL, federal poverty level.
suggest that odds of delaying care were significantly lower among non-Latino whites in the period after the ACA relative to the period before the ACA. Furthermore, the reduction in odds of delaying care was significantly greater among Mexicans and Puerto Ricans than among non-Latino whites. Similarly, odds of forgoing care were significantly greater in the period after the ACA among non-Latino whites. There was no significant difference in this change over time between whites and most Latino subgroups. The exception is that Central Americans experienced a significantly greater increase in the odds of having a physician visit than non-Latino whites experienced.

Impact of ACA on Language and Citizenship Status Disparities

Table 4 shows the models with citizenship × time period interaction terms. No interaction term was significant for citizenship status and time period. The period after the ACA was associated with a reduction in the disparity of having a physician visit between respondents who completed the NHIS in Spanish relative to those completing it in English.

Discussion

Trends in access to and utilization of health care revealed that most Latino heritage groups achieved improved access to and utilization of health care for most Latino subgroups. The exception is that Central Americans experienced a significantly greater increase in the odds of having a physician visit than non-Latino whites experienced.
most measures relative to 2011. However, between 2014 and 2015, many Latino subgroups experienced increases in delaying or forgoing care and ED visits, suggesting that the provisions in the ACA have only resulted in short-term gains. This trend must be monitored further to better understand its long-term impact, especially given predictions that health care premiums are expected to rise under the ACA-implemented insurance marketplace.41 As a result, long-term efforts to improve access to and utilization of health care among Latinos may necessitate policies to drive down the cost of care.

Results suggest that the ACA has been successful in reducing some disparities in access to and utilization of care between non-Latino whites and specific Latino heritage groups. For example, Puerto Ricans had the greatest gains, with reduced disparities in delaying care, forgoing care, and using the ED. Mexicans and Central Americans saw disparities in delaying care and having a physician visit, respectively. The latter finding may be in part because of the worsening pattern of visiting a physician among non-Latino whites. Importantly, no group saw reductions in disparities in insurance status. While these findings suggest that certain groups have benefited more from the ACA than others, additional differences may be obscured by the differential degree and rate of ACA expansion exhibited across states. For example, Florida, which is home to the majority of Cuban-heritage individuals in the United States, has elected to not expand Medicaid,42 thus undermining the potential benefit of ACA among this group. Conversely, California, which is home to a plurality of Mexican-heritage individuals, implemented an early expansion of coverage for low-income groups,10,11 thus allowing gains to be more fully realized but also potentially diminishing the impact of years 2014 and 2015 as proxies for full ACA implementation. Moreover, California is expanding Marketplace coverage, without subsidies, to undocumented individuals, but the NHIS data included in these analyses do not capture these recent policy changes.

Results also highlight the relative lack of impact the ACA has had in reducing disparities in access to and utilization of health care among Latinos. Specifically, disparities by citizenship or language (with only 1 exception) did not dissipate with the passage of time. Table 3 provides a more detailed look at the odds of access and utilization of health care as a function of year and heritage group interaction.

### Table 3. Odds of Access and Utilization of Health Care as a Function of Year and Heritage Group Interaction

<table>
<thead>
<tr>
<th>Citizenship, 2011 to 2015 National Health Interview Survey (N = 86,467)</th>
<th>Insured</th>
<th>Delay in Care</th>
<th>Forgo Care</th>
<th>ED Use</th>
<th>Physician Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OR</td>
<td>95% CI</td>
<td>OR</td>
<td>95% CI</td>
<td>OR</td>
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<tr>
<td>Heritage</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Non-Latino white</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Puerto Rican</td>
<td>1.05</td>
<td>0.88–1.26</td>
<td>0.97</td>
<td>0.78–1.19</td>
<td>1.16</td>
</tr>
<tr>
<td>Mexican</td>
<td>0.67*</td>
<td>0.62–0.73</td>
<td>0.89†</td>
<td>0.81–0.98</td>
<td>1.00</td>
</tr>
<tr>
<td>Cuban</td>
<td>0.91</td>
<td>0.71–1.17</td>
<td>1.22</td>
<td>0.94–1.58</td>
<td>1.52†</td>
</tr>
<tr>
<td>Central American</td>
<td>0.63*</td>
<td>0.55–0.72</td>
<td>1.10</td>
<td>0.93–1.29</td>
<td>1.35*</td>
</tr>
<tr>
<td>Other Latinos</td>
<td>1.14</td>
<td>0.90–1.43</td>
<td>0.82</td>
<td>0.63–1.07</td>
<td>0.92</td>
</tr>
<tr>
<td>Time period</td>
<td>Before ACA</td>
<td>1.56*</td>
<td>1.46–1.67</td>
<td>0.78*</td>
<td>0.74–0.84</td>
</tr>
<tr>
<td>Heritage group × time period</td>
<td>After ACA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White × after ACA</td>
<td>0.98</td>
<td>0.72–1.32</td>
<td>0.71†</td>
<td>0.52–0.98</td>
<td>0.53*</td>
</tr>
<tr>
<td>Puerto Rican × after ACA</td>
<td>1.03</td>
<td>0.92–1.16</td>
<td>0.82†</td>
<td>0.71–0.95</td>
<td>0.90</td>
</tr>
<tr>
<td>Mexican × after ACA</td>
<td>1.21</td>
<td>0.85–1.73</td>
<td>0.70</td>
<td>0.43–1.15</td>
<td>0.64</td>
</tr>
<tr>
<td>Cuban × after ACA</td>
<td>1.15</td>
<td>0.94–1.40</td>
<td>0.94</td>
<td>0.74–1.21</td>
<td>0.86</td>
</tr>
<tr>
<td>Central American × after ACA</td>
<td>0.73</td>
<td>0.54–1.00</td>
<td>1.32</td>
<td>0.86–2.04</td>
<td>1.22</td>
</tr>
</tbody>
</table>

Models also control for citizenship status, interview language, age, sex, marital status, family income, education, US Census region, self-reported health status, chronic conditions, and functional limitations.

*P < .01. †P < .05.

ACA, Patient Protection and Affordable Care Act; CI, confidence interval; OR, odds ratio.

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of the ACA. The lack of the importance of language contrasts with previous state-level findings showing the ACA as having the greatest benefits for individuals with LEP. As a result, additional efforts may be needed to improve knowledge of the ACA and facilitate enrollment in coverage options among Spanish-speaking individuals. However, this discrepancy may be a result of the limited sample of Spanish-speaking respondents in the NHIS. In addition, because the insurance expansions created by the ACA began in January 2014, they are subject to an extended open enrollment period (which means that some individuals started coverage as late as May 1, 2014) and were phased in over time. Individuals who were harder to reach, younger, and healthier may have been less likely to enroll and benefit from health insurance coverage during 2014.43 As a result, data collected during 2014 may bias the findings of this study toward the null.

The persistent disparities between citizens and noncitizens is not surprising because the ACA prohibits undocumented individuals from gaining coverage from public sources or from private sources obtained in insurance exchanges. Similarly, lawful permanent residents must undergo a 5-year waiting period in most states before they are eligible for ACA benefits under Medicaid. Furthermore, the ACA did not address larger structural and economic issues that discourage noncitizens from seeking health care (ie, a historic number of immigrant deportations,44 cheaper health care abroad45,46 and universal health care in most Latin American countries47,48). Thus, by design, the ACA has limited ability to address the needs of noncitizens. However, the ACA did allocate funding to support existing community health centers (CHCs) and build future CHCs.49 Because almost all CHCs offer services regardless of insurance coverage or ability to pay, undocumented individuals may still have a way to benefit from the ACA. Given that disparities between citizens and noncitizens did not dissipate, the current levels of increased investment in CHCs are an unlikely policy mechanism to address this disparity. In terms of naturalized citizens, results suggest that there were few disparities to close, but it is notable that the ACA did not reduce the disparities in rates of insurance coverage, indicating a future opportunity for targeted policy interventions.

While this study provides unique insight into disparities in the impact of the ACA among Latinos, there are a few limitations to consider. First, the years 2014 and 2015 can only serve as a rough marker for ACA implementation because not all states followed the same implementation timeline. Similarly, using years as a marker does not indicate which of the many mechanisms in the ACA is driving reductions in disparities. Second, the measure of language does not capture proficiency in

Table 4. Odds of Access and Utilization of Health Care as a Function of Year and Citizenship Status or Interview Language Interactions, 2011 to 2015 National Health Interview Survey

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Insured</th>
<th>Delay in Care</th>
<th>Forgo Care</th>
<th>ED Use</th>
<th>Physician Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OR</td>
<td>95% CI</td>
<td>OR</td>
<td>95% CI</td>
<td>OR</td>
</tr>
<tr>
<td>Citizenship × time period*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US-born × after ACA</td>
<td>0.98</td>
<td>0.82–1.17</td>
<td>1.05</td>
<td>0.83–1.32</td>
<td>1.09</td>
</tr>
<tr>
<td>Naturalized × after ACA</td>
<td>1.03</td>
<td>0.81–1.30</td>
<td>0.80</td>
<td>0.62–1.03</td>
<td>0.83</td>
</tr>
<tr>
<td>Non–US citizen × after ACA</td>
<td>1.03</td>
<td>0.81–1.30</td>
<td>0.80</td>
<td>0.62–1.03</td>
<td>0.83</td>
</tr>
<tr>
<td>Interview language × time period†</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English × after ACA</td>
<td>1.02</td>
<td>0.87–1.20</td>
<td>0.97</td>
<td>0.79–1.19</td>
<td>0.92</td>
</tr>
<tr>
<td>Spanish × after ACA</td>
<td>0.98</td>
<td>0.82–1.17</td>
<td>1.05</td>
<td>0.83–1.32</td>
<td>1.09</td>
</tr>
</tbody>
</table>

*Models also control for race, interview language, age, sex, marital status, family income, education, US Census region, self-reported health status, chronic conditions, and functional limitations.
†Models also control for race, citizenship, age, sex, marital status, family income, education, US Census region, self-reported health status, chronic conditions, and functional limitations. These analyses excluded individuals who completed the National Health Interview Survey in a language other than English or Spanish.
‡P < .05.

ACA, Patient Protection and Affordable Care Act; CI, confidence interval; ED, emergency department; OR, odds ratio.
English and thus may explain why these results do not mirror previous results examining LEP. Finally, the measure of citizenship may also be crude in examining the ACA’s impact, since there is no way of knowing who is a lawful permanent resident and whether he or she has met the ACA’s 5-year waiting period in those states with that exclusion.

**Conclusion**

Despite limitations, this study suggests that the ACA has had some success in reducing disparities in access to and utilization of health care for Latinos. As a result, wide-reaching reforms like the ACA may be effective at reducing disparities and improving public health. The decision by several states not to expand Medicaid coverage will limit this impact given that many states with sizable proportions of Latinos (ie, California, Texas, and Utah) have elected not to undergo this expansion. Despite this, current efforts by other states, including recently passed legislation in California to allow undocumented immigrants to purchase coverage in insurance exchanges without subsidies, suggest that the ACA may only be a starting point in the effort to improve access to and utilization of health care for Latinos. These expansion efforts, however, are contingent on approval from the federal government. With repeal of ACA provisions being considered by the next presidential administration, these expansions seem unlikely. As a result, some of the progress made under the ACA may be reversed.

*To see this article online, please go to: http://jabfm.org/content/30/1/52.full.*

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