



Durham County 2013 Community Health Assessment Survey Results

Random Sample of High-Proportion Latino Census Blocks

Contact: Erika Samoff MPH PhD 919-560-7833 esamoff@dconc.gov

Authors: Kathryn Peebles MPH, Patricia Casbas Hernandez MPH, Matt Simon MA of the Institute for Public Health, Gillings Global School of Public Health, University of North Carolina-Chapel Hill; Erika Samoff, Durham County Department of Public Health and Partnership for a Healthy Durham.

Introduction and Methods

The Durham County Community Health Assessment survey was conducted over six interview days between September 27th and October 25th, 2013. Administration of the community health survey was performed in collaboration with the North Carolina Institute for Public Health (NCIPH). A two-stage cluster sampling method developed by the Centers for Disease Control and Prevention (CDC) and the World Health Organization (WHO) was employed, using population-based sampling weights from each census block. This sampling method involves randomly selecting 30 census blocks and seven random interview sites in each block to generate a geographic random sample of households. In the first stage of sampling, 30 census blocks were randomly selected with a probability proportionate to the population size (so that the most populated census blocks were more likely to be selected). In the second stage of sampling, seven random interview locations were selected in each census block.

Latino community random sample

In an effort to survey the Latino community, this sample was drawn from 2010 census blocks where more than 50% of the population identified themselves as Hispanic or Latino, defined by the 2010 census as “a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin regardless of race”.

The random sample of 30 census blocks resulted in 19 unique census blocks from the 134 blocks that met this criterion. Two census blocks were selected twice, three census blocks were selected three times, and one was selected four times. The selected census blocks throughout Durham County are shown in Figure 2.

Fourteen locations were selected in each of the census blocks that were selected twice (clusters 1 & 16), 21 locations were selected in each of the census blocks that were selected three times (clusters 8 & 18), and 28 locations were selected in the block that was selected four times. This sample allows for generalizability of the collected data to the Hispanic and Latino population of Durham County residing in areas of more than 50% Hispanic or Latino origin, roughly 30% of the Hispanic and Latino community (10,674 of the 36,077).

Survey administration

Interviewers were recruited from Durham County health organizations and the community in general and trained in survey interview methods. Interviewers worked in teams of two; 90% of the teams had at least one interviewer with prior survey experience. Teams obtained oral consent in English or Spanish before interviewing potential survey participants. Eligible participants were at least 18 years of age and a resident of the selected households. Responses were recorded at the time of interview using EpiInfo on a Google Nexus tablet.

Data analysis

During the analysis, results were weighted to account for the sampling method, such that the final results are generalizable to the population sampled.

Data were analyzed in SAS 9.3 (Cary, NC), and results for each question in the survey are reported as weighted proportions with their 95% confidence intervals (CI). Survey weights were calculated using methods described in the CDC CASPER toolkit, which incorporates the total number of households in the sampling frame, the number of households in the census block, and the number of interviews collected in each census block. These weights were used to calculate the standard error for each proportion, from which 95% CIs were derived. These confidence intervals should be interpreted as the interval that contains the true value in 95% of repeated samples. Qualitative data were summarized into categorical variables where appropriate. Each data chart is labeled with the number of respondents that answered the particular question, in the format “n=number”.

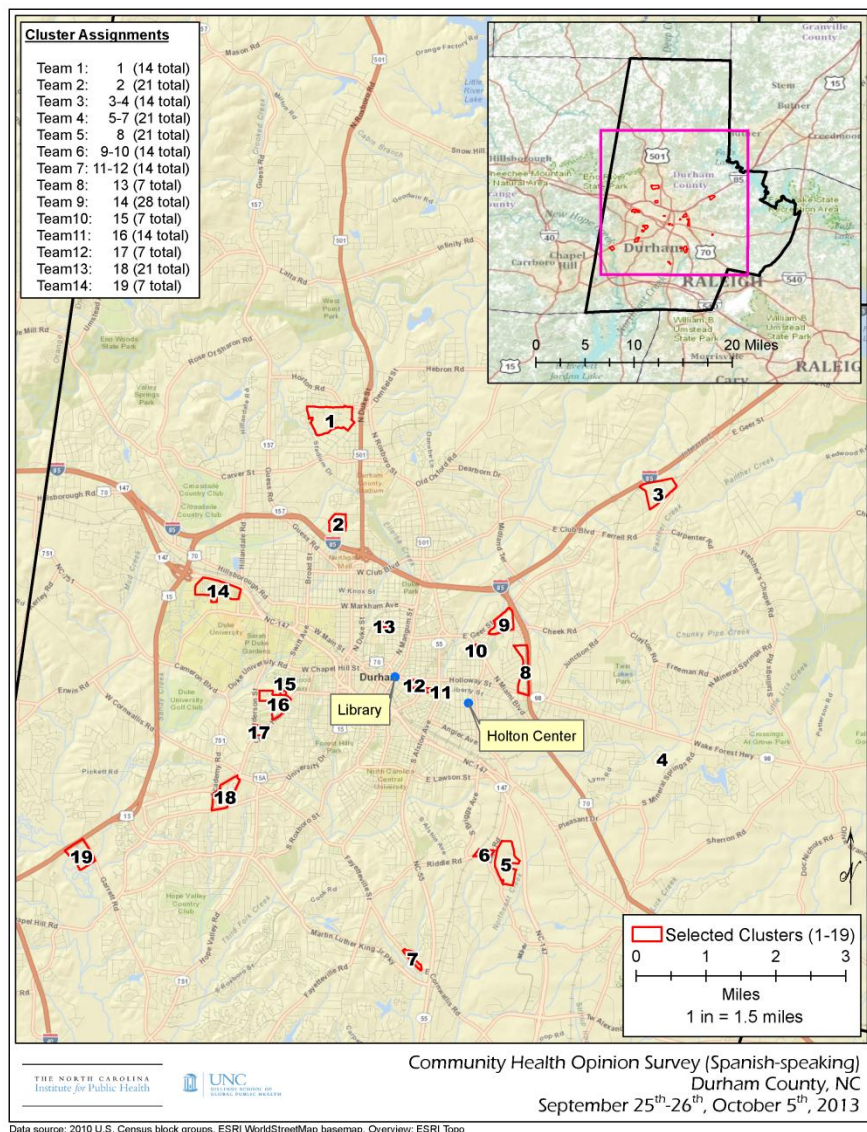


Figure 1. Selected census blocks (n = 19) for high proportion Latino neighborhood random sample

Results

A total of 172 interviews were conducted, from the planned set of 210 (7 interviews from 30 census blocks) for a response rate of 81.9%.

Compared to 2010 Census data, demographic information from survey respondents from this sample indicate that our sample population differs from the Latino population of Durham as a whole in several ways. Latinos in our sampling population have lower educational attainment, with 25.8% (95% CI: 17.8%, 33.7%) of the Latinos in our sampling population having a high school diploma or equivalency as their highest educational attainment with only 0.4% (95% CI: 0.0%, 1.1%) going on to attain a bachelor's degree. In Durham County as a whole, 22.6% of Latinos have a high school diploma or equivalency as their highest educational attainment and 9.1% earn a bachelor's degree. Latinos in our sampling population also have lower income than Latinos in Durham County generally, with 35.3% (95% CI: 22.5%, 48.0%) of Latinos in our sampling population earning less than \$14,999 annually compared to only 12.7% of Latinos in Durham County generally who earn less than \$14,999. Therefore, respondents in this sample were poorer and less educated than the Latino community of Durham County, and these findings should be interpreted to represent conditions and opinions among this poorer, less educated community. To identify this community and reflect the sampling frame, we are titling this the "high proportion Latino neighborhood random sample". These results should not be taken to reflect the entire Latino community of Durham County.

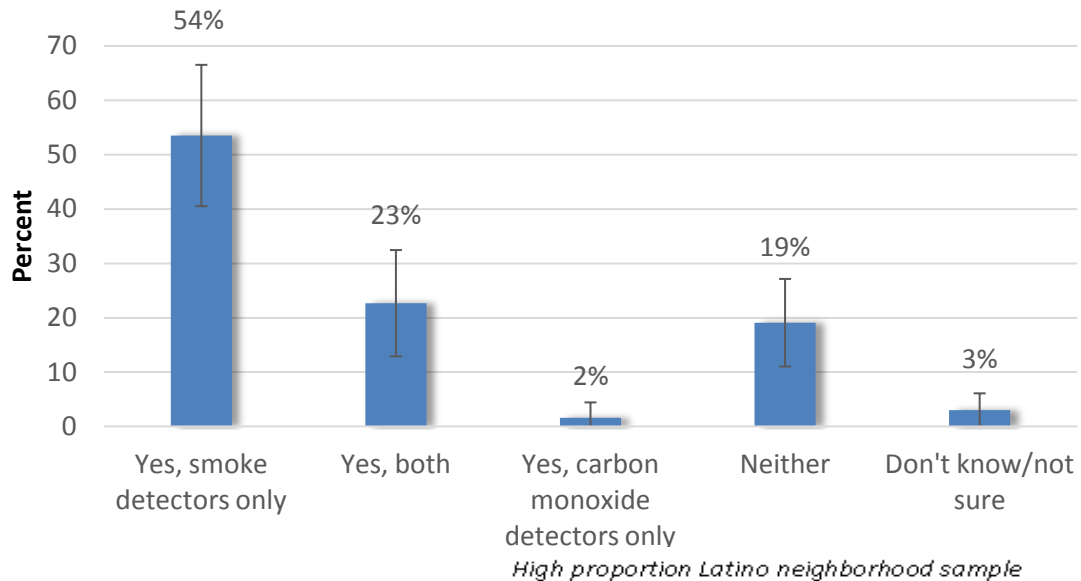
The median age of survey respondents was 37 years (range, 18-61). The majority of survey respondents were female (65.1%; 95% CI: 54.9%, 75.2%) (Table 2). The majority of respondents were Mexican (66.9%; 95% CI: 55.0%, 78.9%), while the remaining respondents were Dominican, Salvadoran, Guatemalan, Honduran, or Puerto Rican (Table 1). Almost three quarters of respondents spoke exclusively Spanish in the home (74.1%; 95% CI: 61.3%, 86.9%), and about one quarter spoke both Spanish and English (24.0%; 95% CI: 10.8%, 37.1%) (Table 1). Other languages spoken in the home included Chatino and Otomi, languages originating in Central Mexico.

Table 2. Demographic characteristics of survey respondents (n=159)

	Percent (95% CI)
Gender (n = 171)	
Male	34.2% (23.9%, 44.5%)
Female	65.1% (54.9%, 75.2%)
Hispanic Origin (n = 159)	
Mexico	66.9% (55.0%, 78.9%)
Honduras	16.6% (8.5%, 24.6%)
El Salvador	10.1% (4.5%, 15.8%)
Guatemala	3.4% (0.0%, 7.5%)
Puerto Rico	1.6% (0.0%, 4.9%)
Dominican Republic	0.3% (0.0%, 0.9%)
Language Spoken in the Home (n = 172)	
Spanish	74.1% (61.3, 86.9%)
English	0.3% (0.0%, 0.9%)
Both Spanish and English	24.0% (10.8%, 37.1%)
Other	1.7% (0.0%, 4.2%)

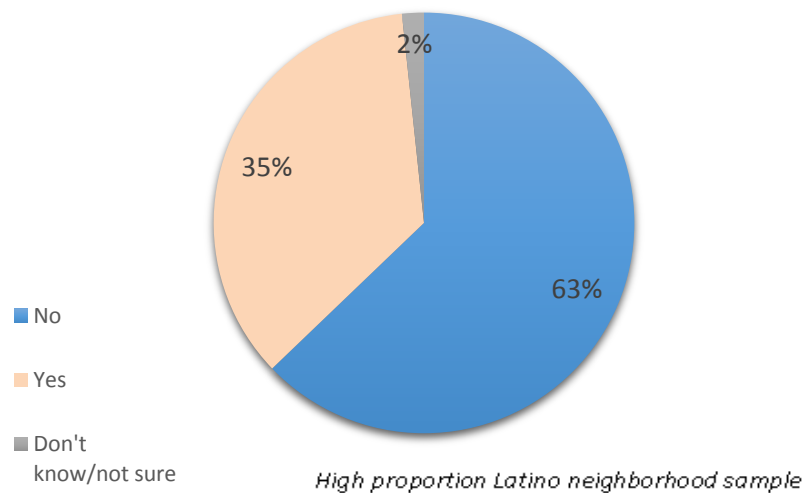
Part 1. Emergency Preparedness

1. Does your household have working smoke and carbon monoxide detectors? (Choose one.)



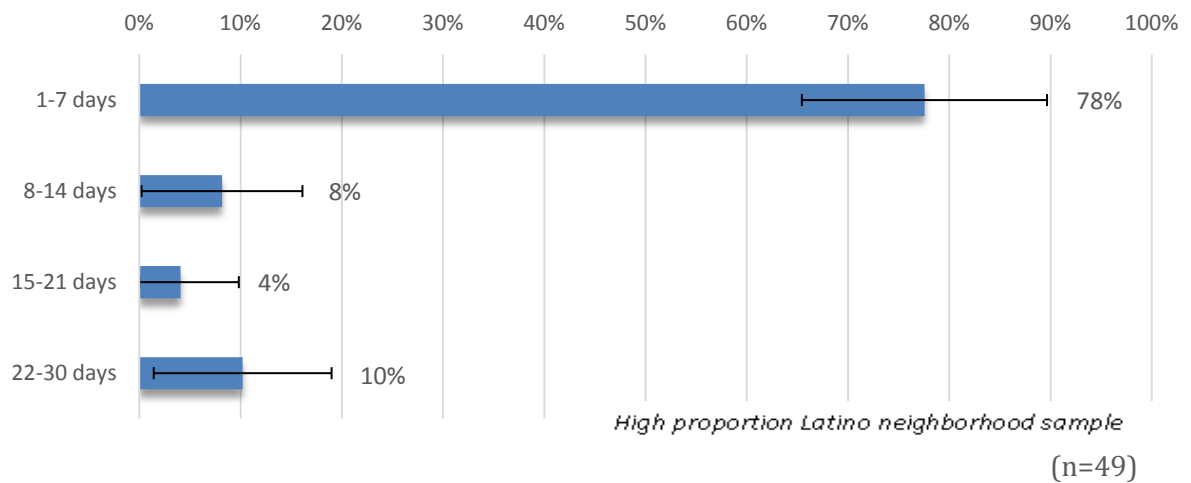
(n=172)

2. Does your family have a basic emergency supply kit and plan? (These kits include water, non-perishable food, any necessary prescriptions, first aid supplies, flashlight and batteries, non-electric can opener, blanket, etc.)

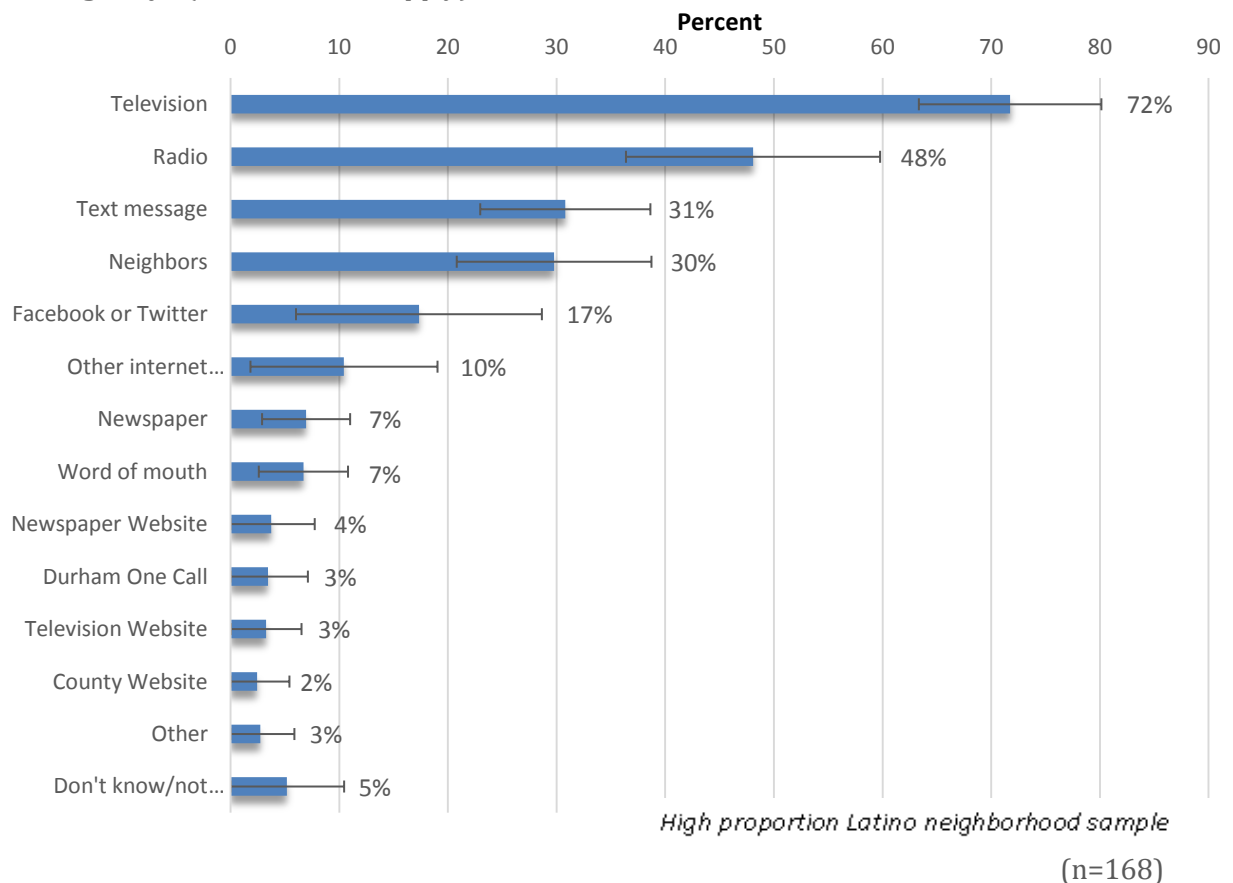


(n=172)

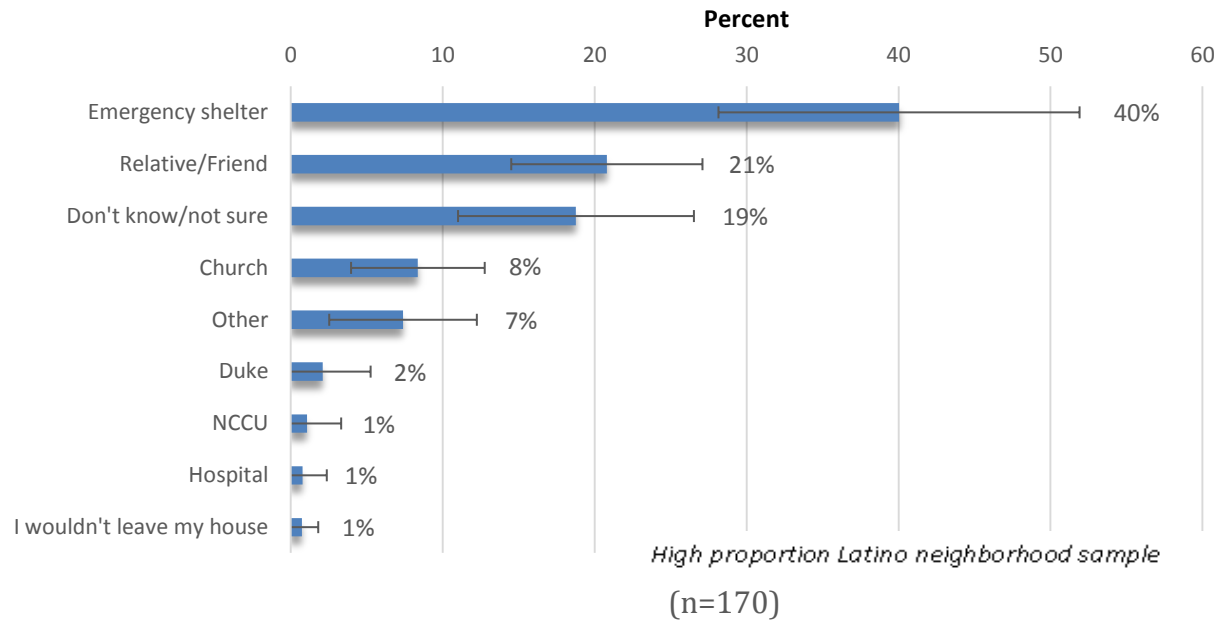
3. If yes, how many days do you have supplies for? (Write # of days)



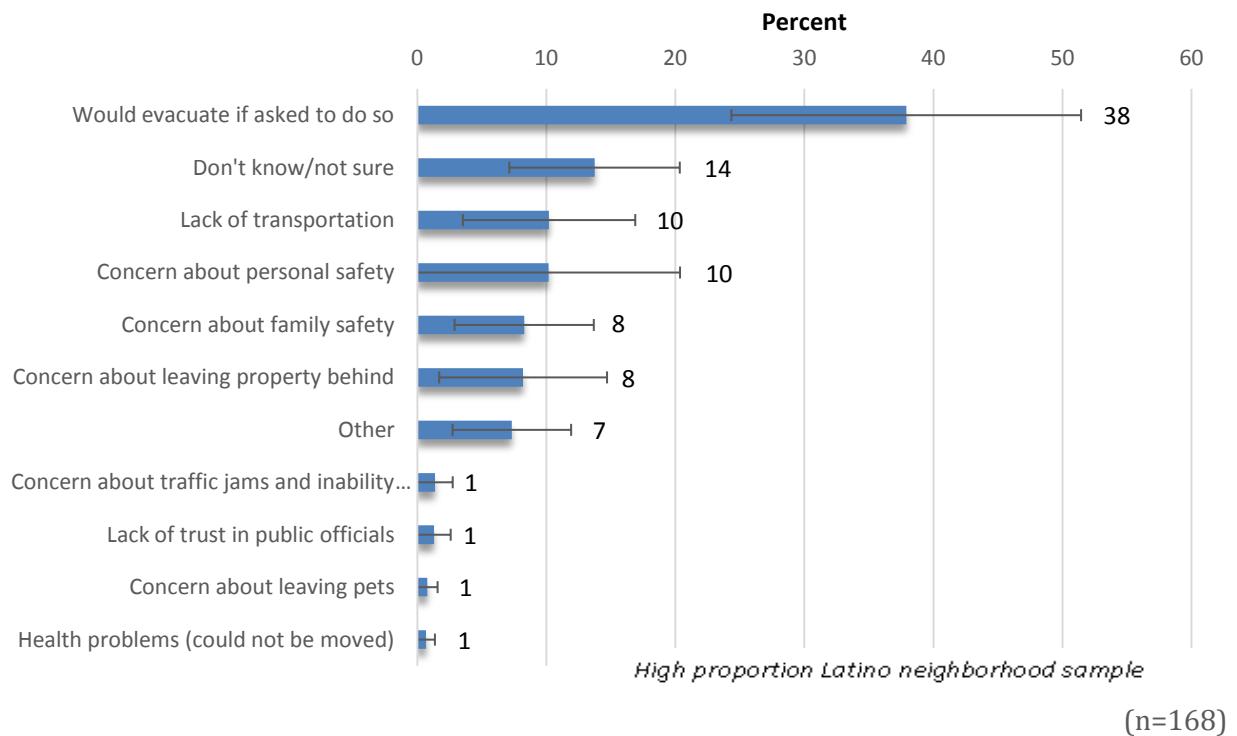
4. What would be your three top sources of information in a large-scale disaster or emergency? (Check all that apply)



5. If you couldn't remain in your house, where would you go in a community-wide emergency? Choose one

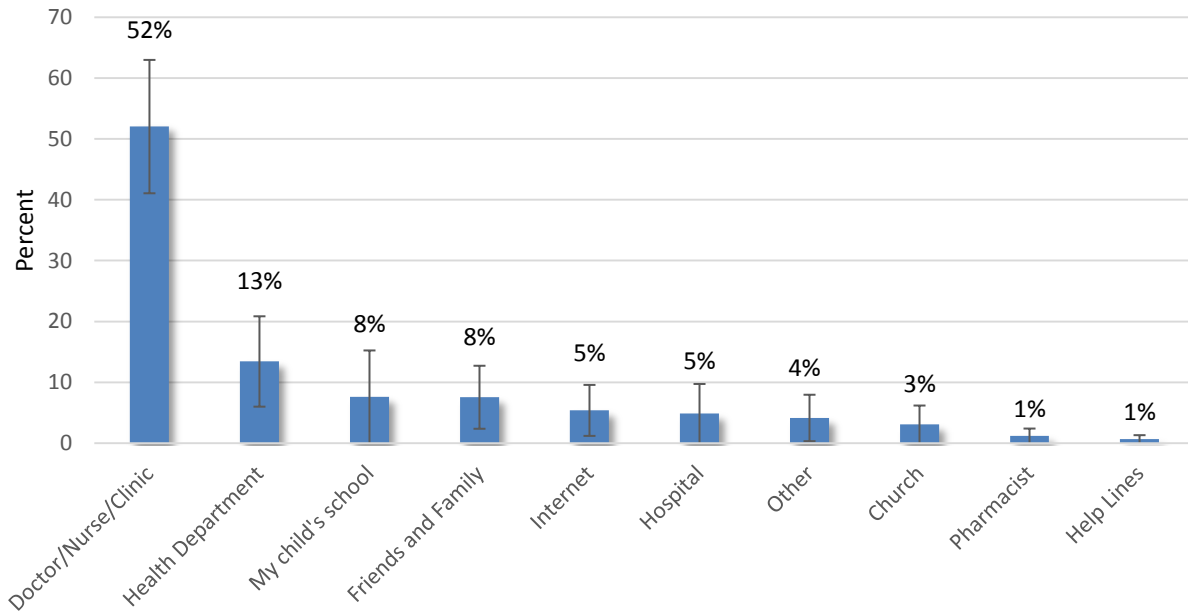


6. What would be the main reason you might not evacuate if asked to do so? (Choose one.)



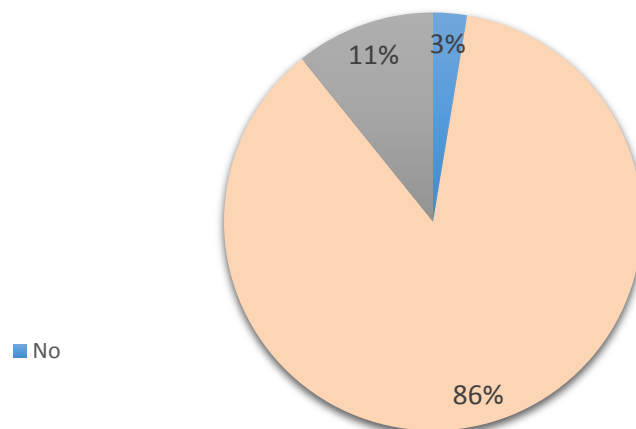
Part 2 Health Information

7. Where do you get most of your health-related information? Please choose only one.



*High proportion Latino neighborhood sample
(n=163)*

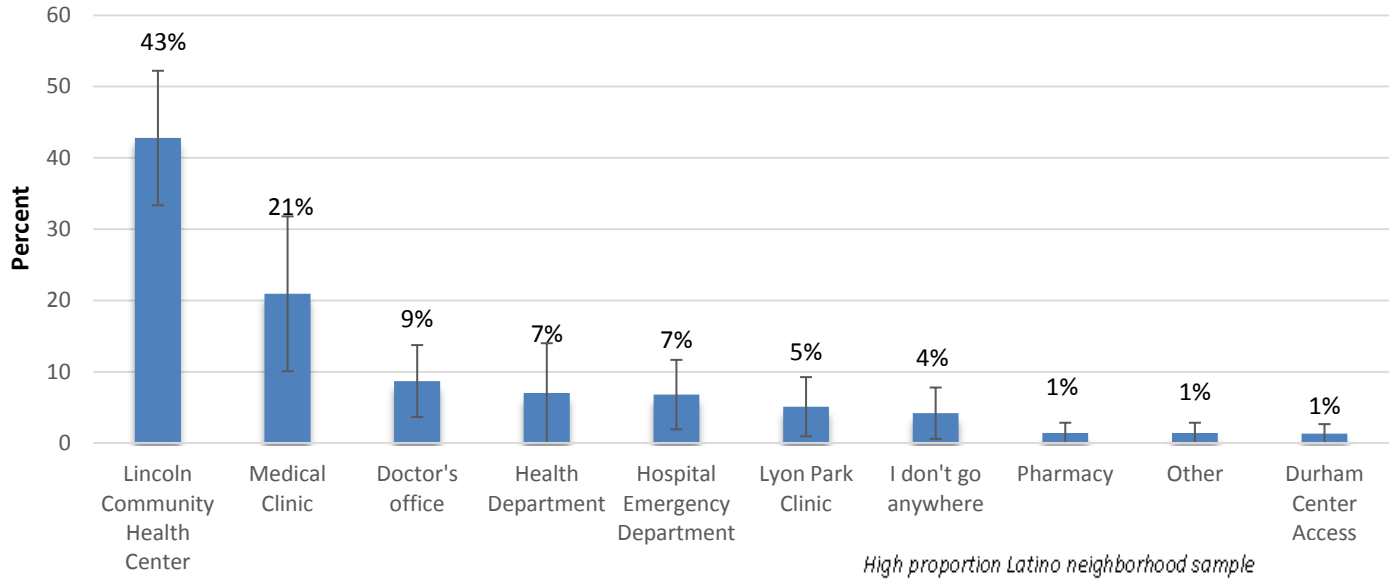
8. Do you think that the Durham County Department of Public Health is a credible source of health information?



*High proportion Latino neighborhood sample
(n=169)*

PART 3: Personal Health

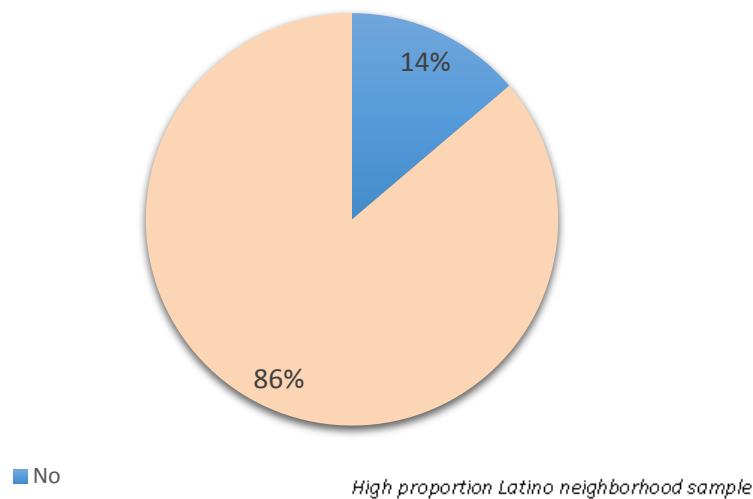
9. Where do you go most often when you are sick or want to talk to someone about your health? Check all apply.



(n=170)

Access to Healthcare:

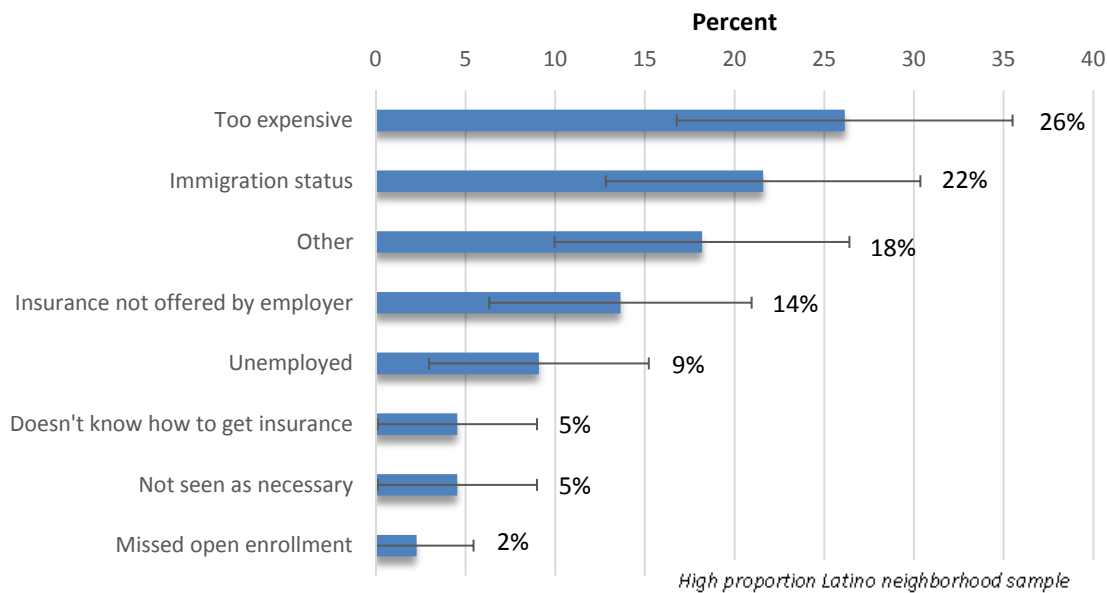
10. During the past 12 months, was there any time that you did not have any health insurance or coverage?



(n=171)



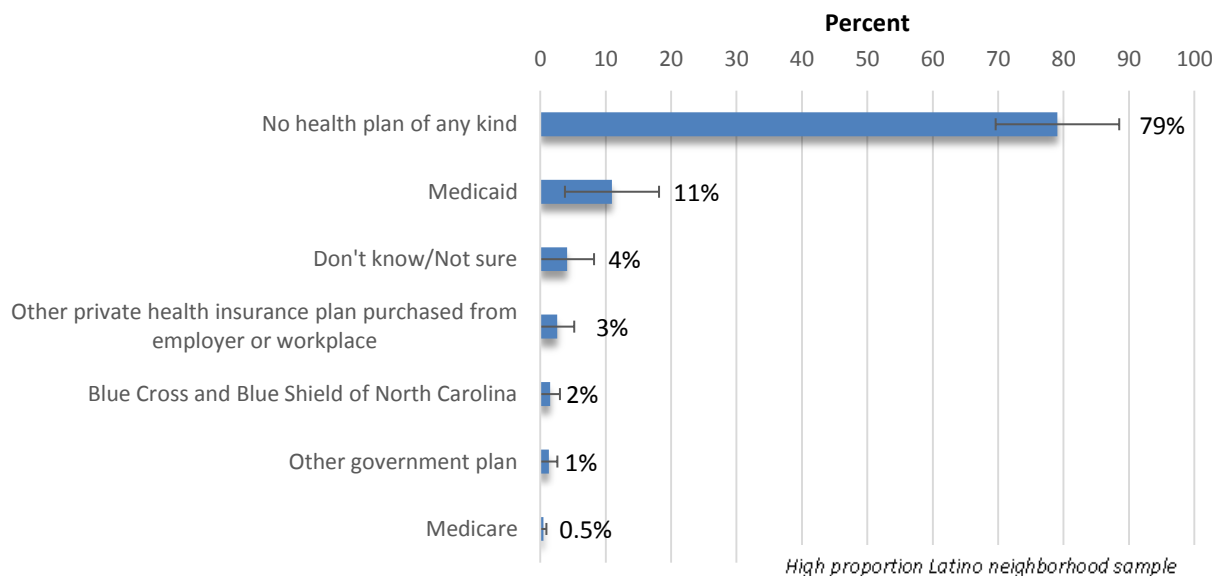
11. If yes, why did you not have health insurance or coverage?



(n=88)

Other for this category includes: "I let it lapse", "I just don't have it", "I haven't thought about it".

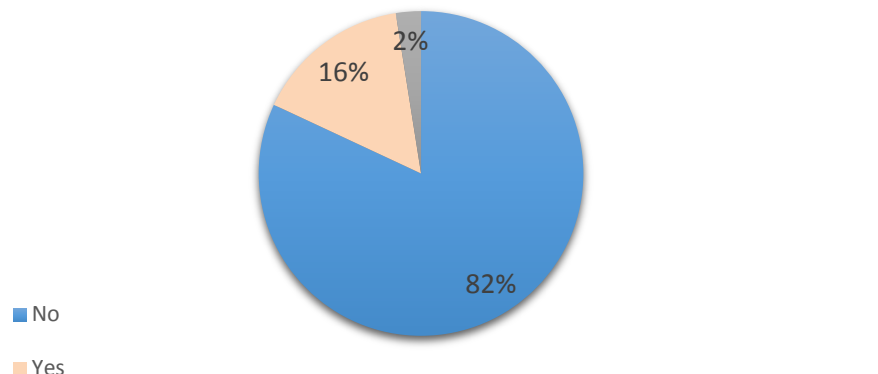
12. What is your current primary health insurance plan? This is the plan which pays the medical bills first or pays most of the medical bills? (Please choose only one.)



(n=142)

13. In the past 12 months, did you have a problem getting the health care you needed for you personally or for someone in your household from any type of health care provider, dentist, pharmacy, or other facility?

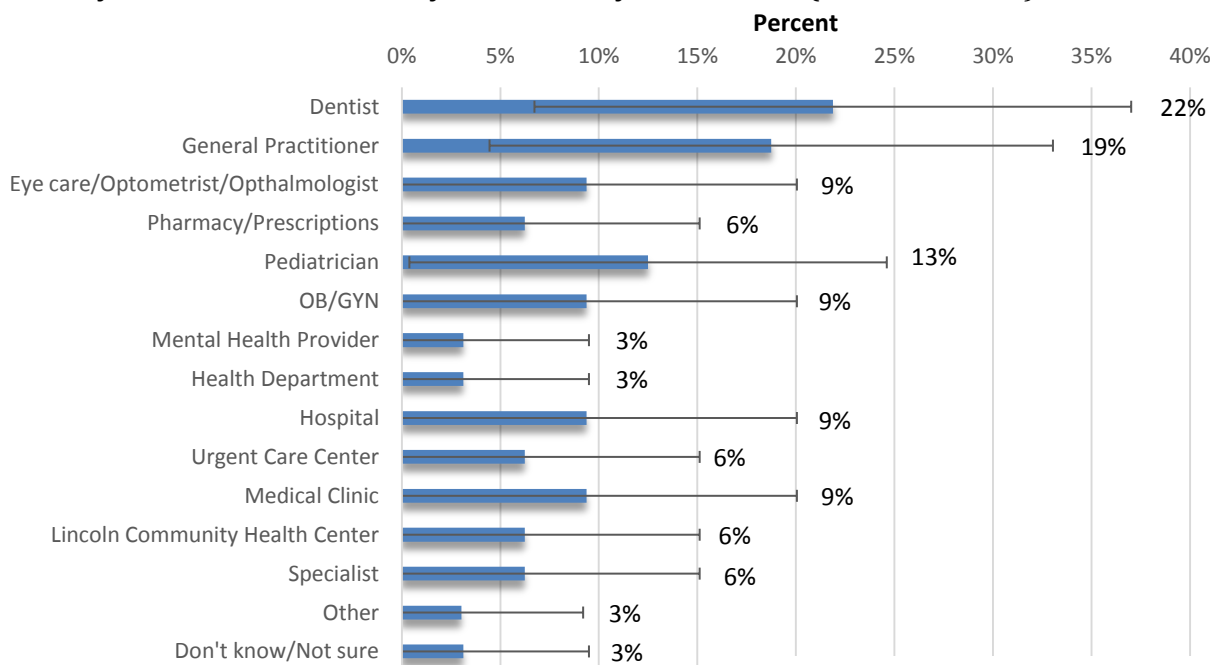
Interviewers reported that many respondents said something like “I don’t really have health problems” or “I just use home remedies”.



High proportion Latino neighborhood sample

(n=169)

14. Since you said “yes,” what type of care (provider or facility) did you or people in your household have trouble getting health care from? I will read a list and you can choose as many of these as you need to. (Read Providers.)

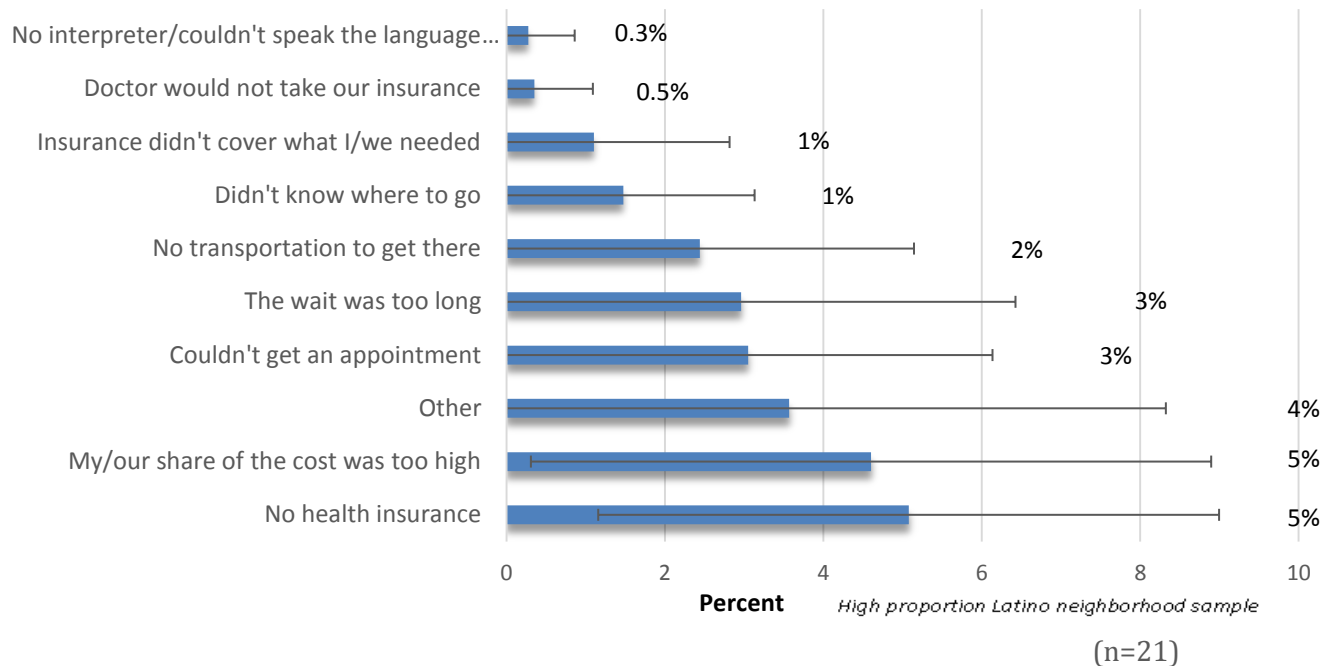


High proportion Latino neighborhood sample

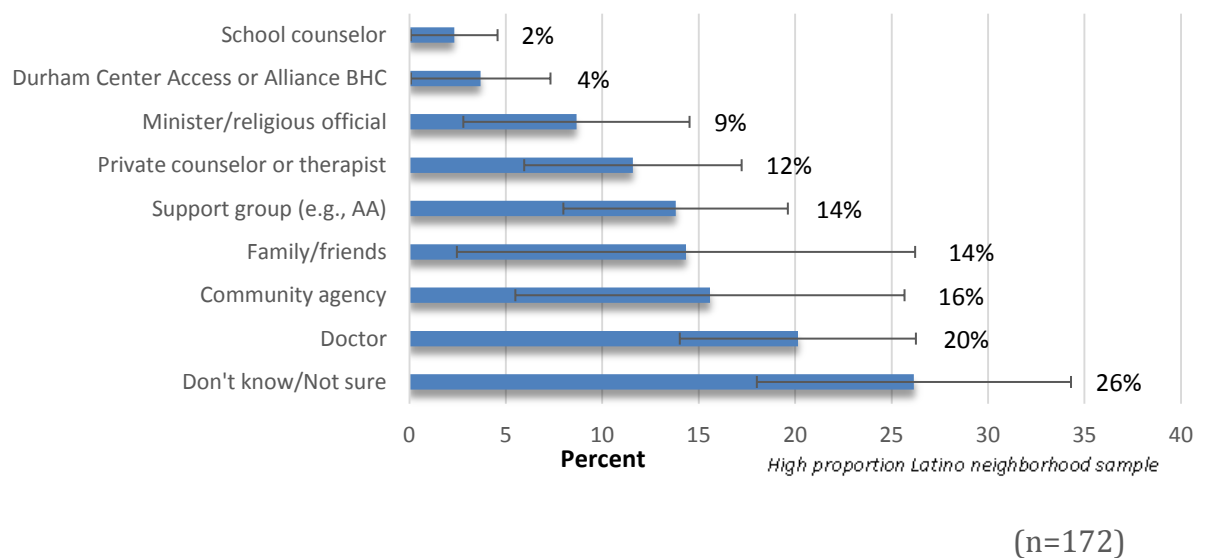
(n=21)



15. What was the problem that prevented you or people in your household from getting the necessary health care? I will read a list and you can choose as many of these as you need to. If you had a problem that we do not have written here, please tell me and I will write it in.

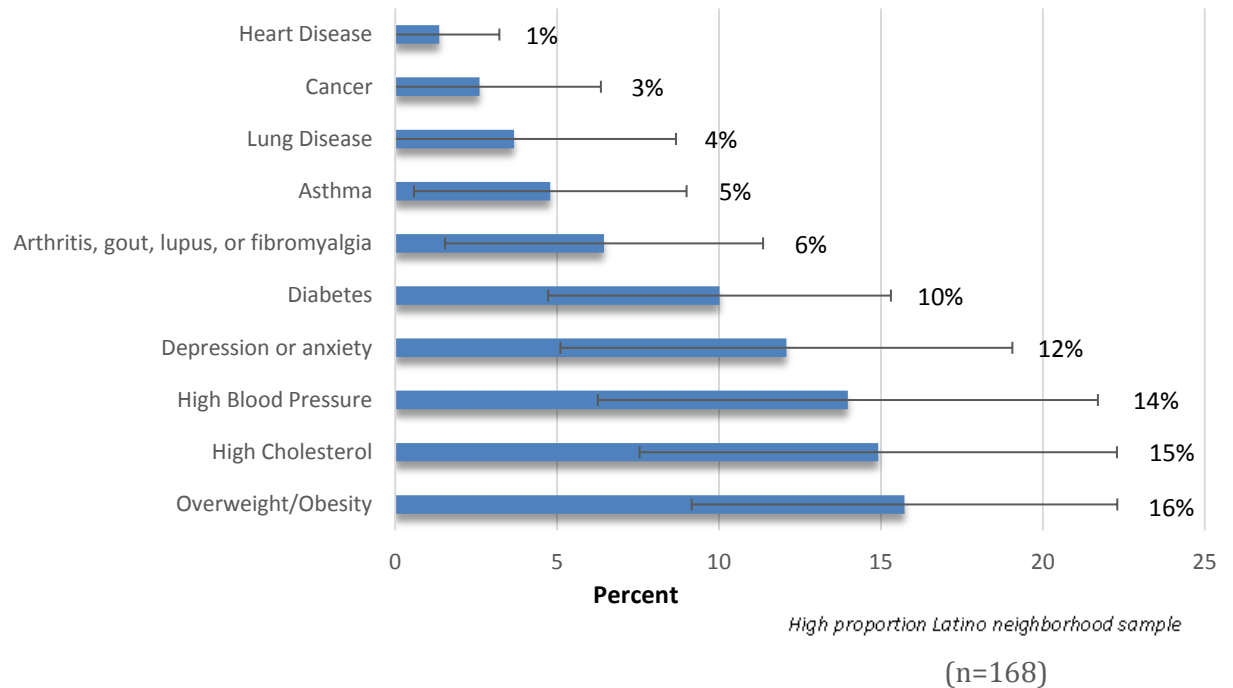


16. If you or a friend or family member needed counseling for a mental health or a drug/alcohol abuse problem, who would you tell them to call or talk to? You can choose as many as you want. Read responses. Which do you think you would choose?



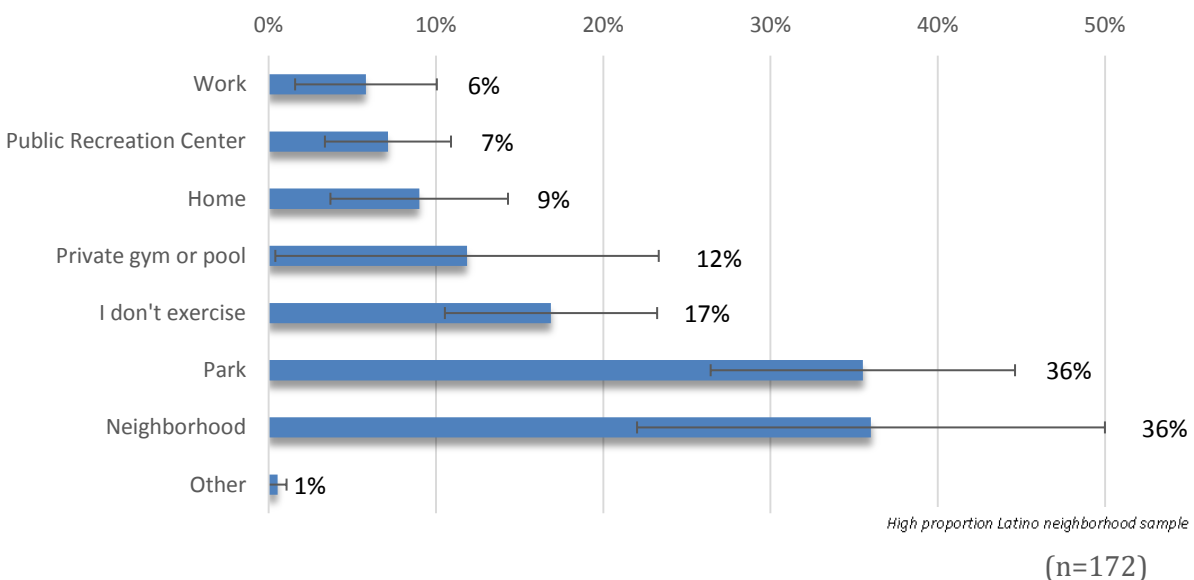
17. Have you ever been told by a doctor, nurse, or other health professional that you have any of the health conditions I am going to read?

Note that this question is based on a clinician's diagnosis. In this population with less access to formal health care, the respondent may be less likely to have received a diagnosis of any health condition.

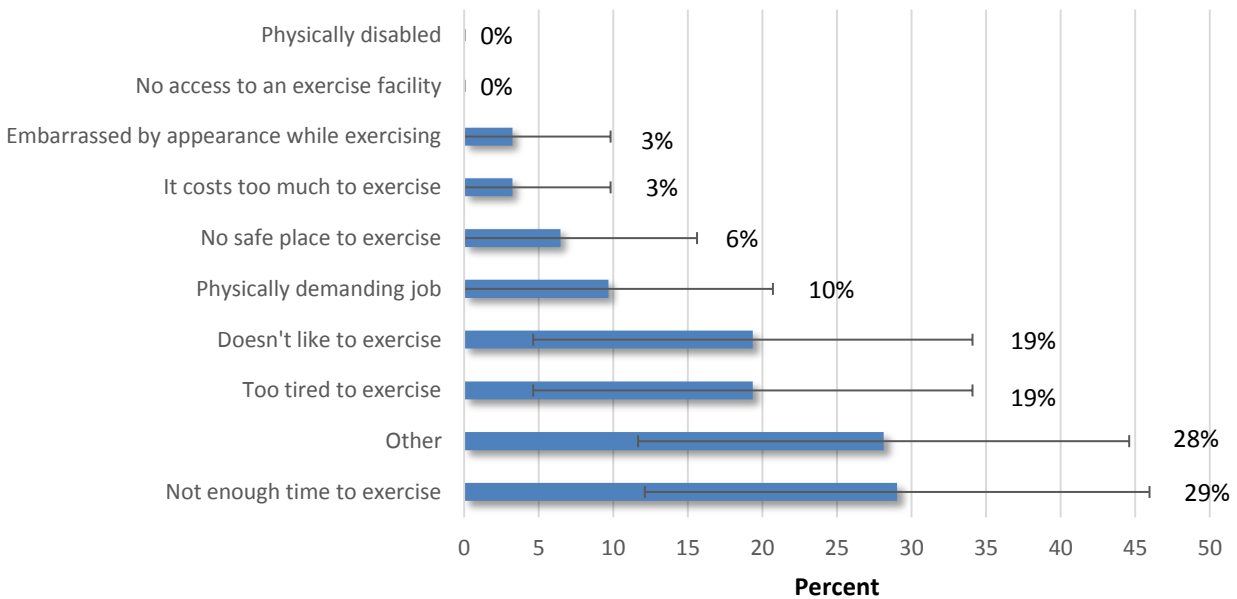


Exercise:

18. Where do you go to exercise or engage in physical activity? Check all that apply.



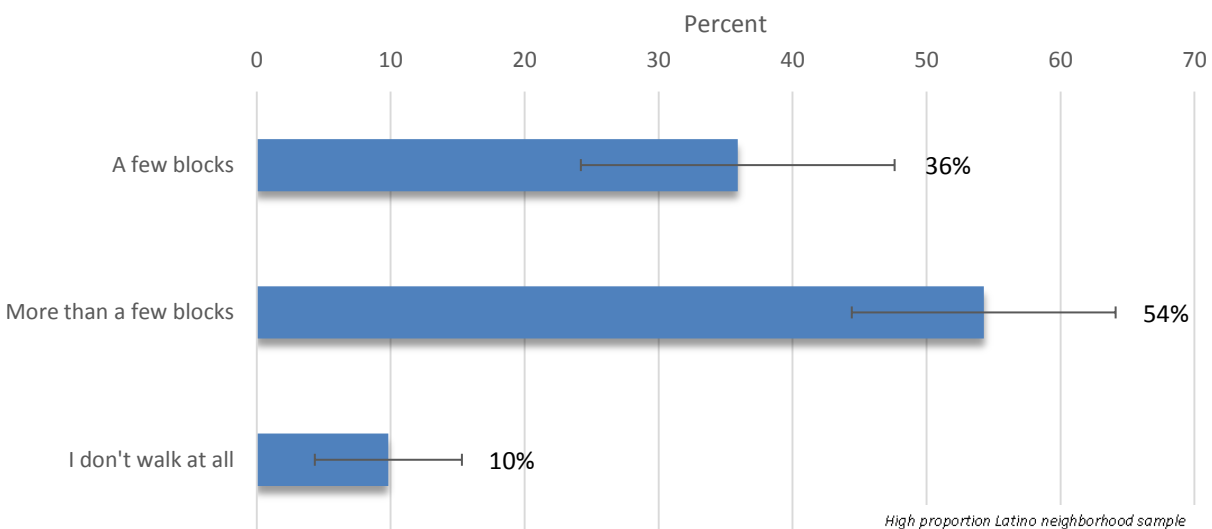
19.If you said “I don’t exercise”, what are the reasons you don’t exercise during a normal week? You can give as many of these reasons as you need to.



High proportion Latino neighborhood sample

(n=31)

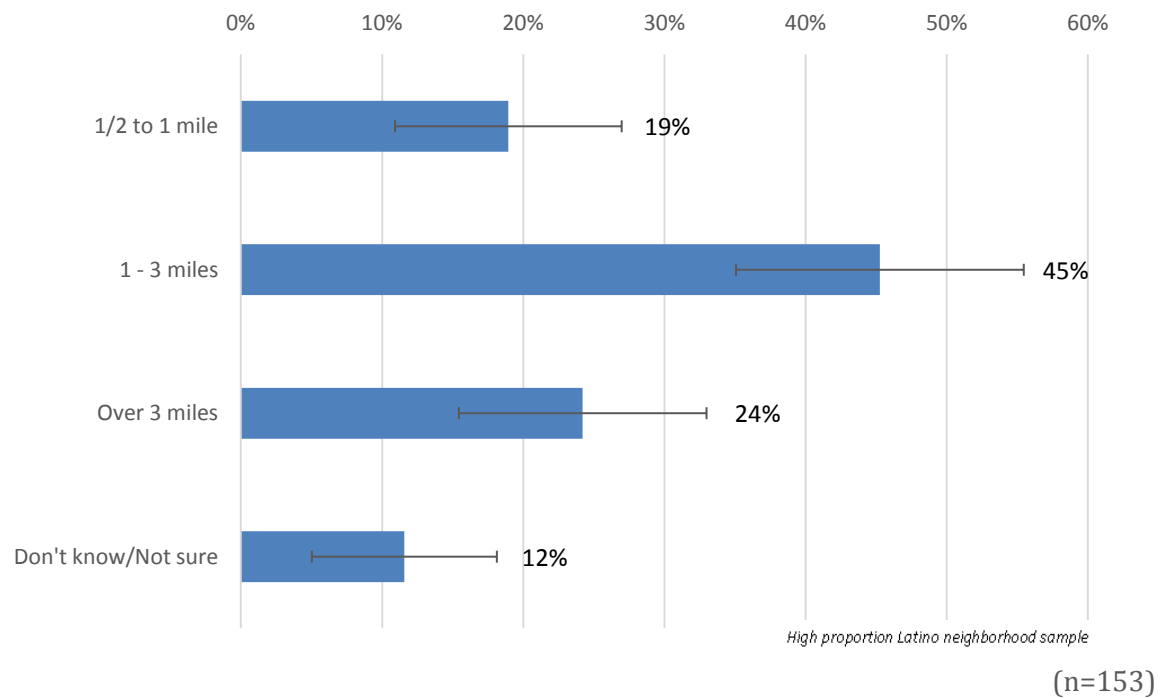
20. There are many different ways to exercise or get physical activity. For the next set of questions, we are only interested in walking and biking. On a typical day, how much do you walk?



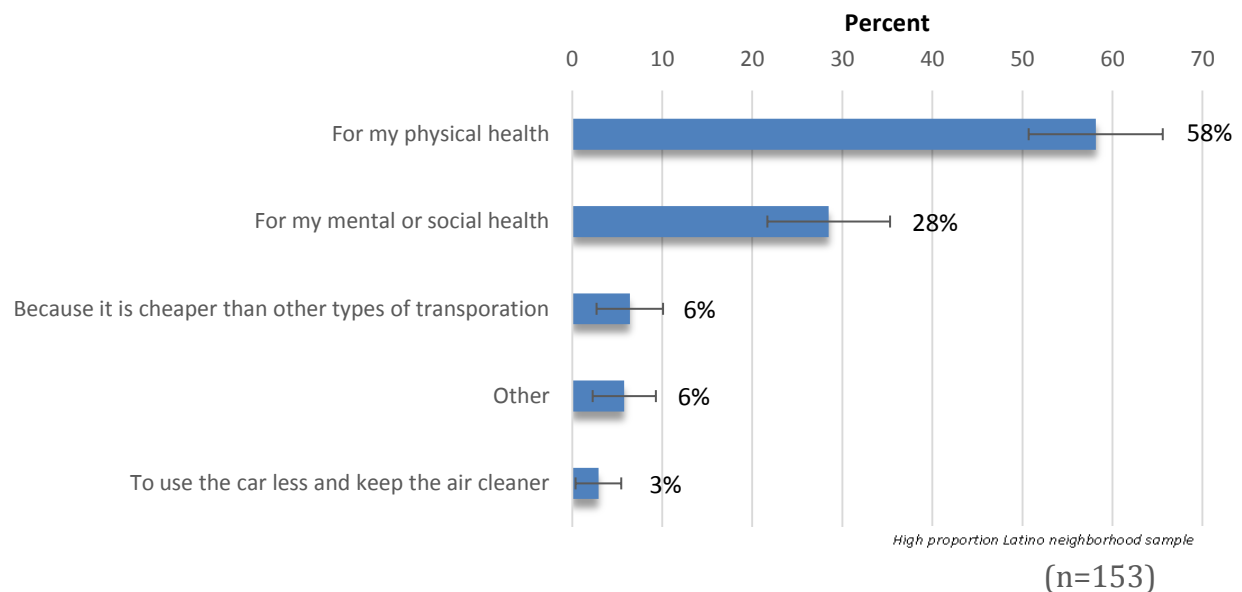
High proportion Latino neighborhood sample

(n=169)

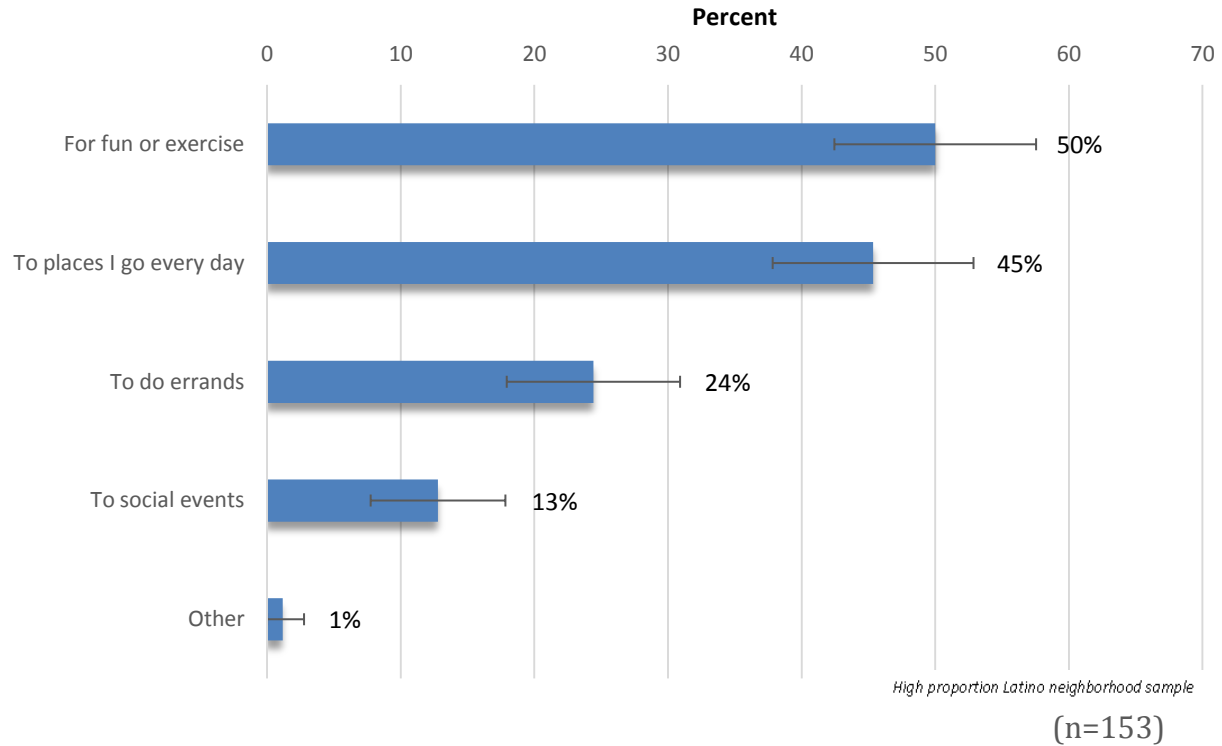
21. How far do you walk each day in miles?



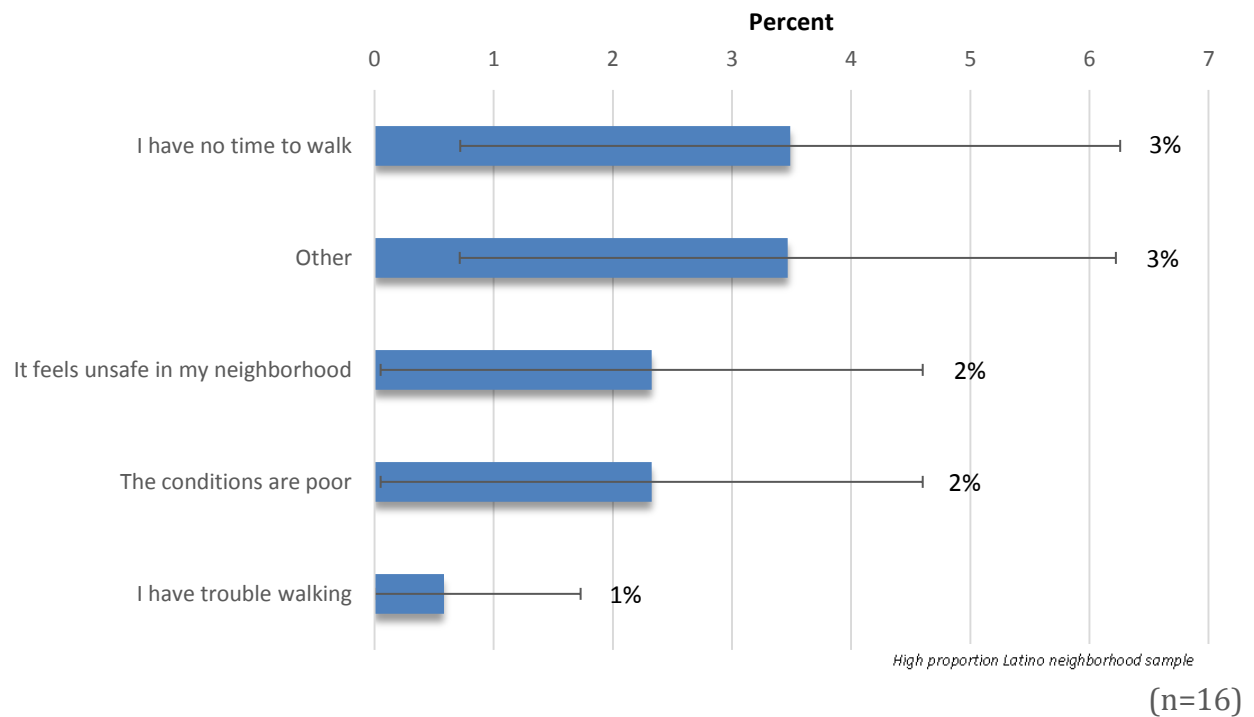
22. Why do you walk? (Read responses and check all that apply)



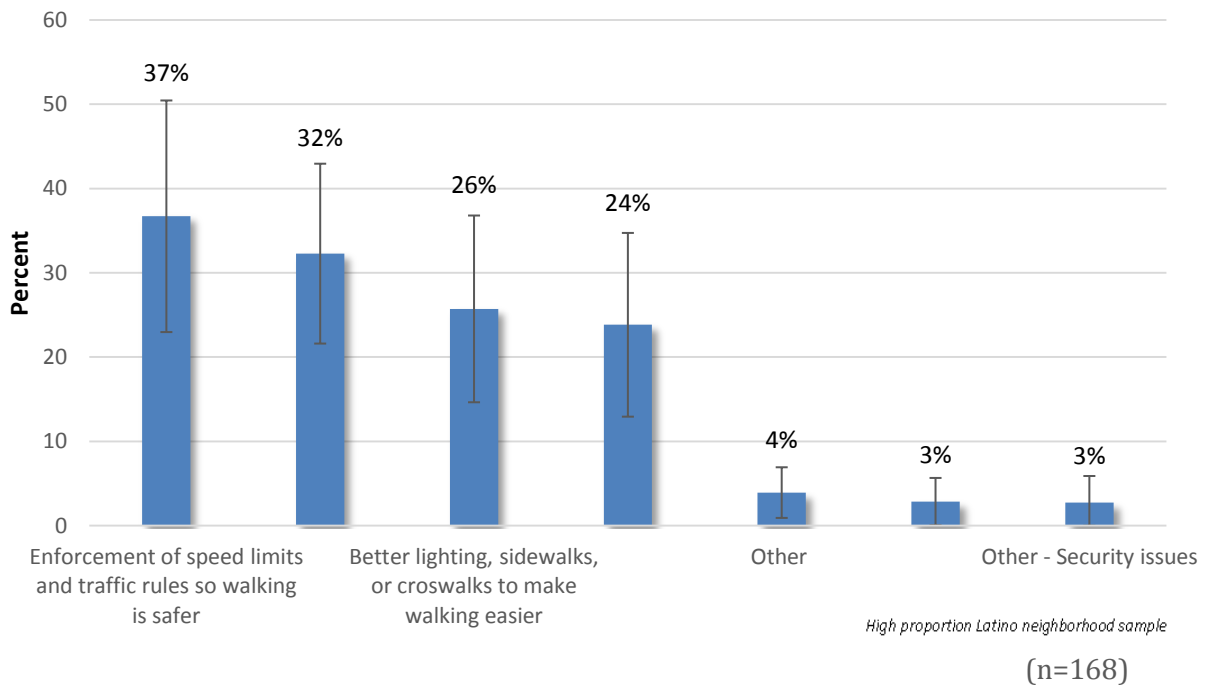
23. Where do you walk? *(Read responses and check all that apply)*



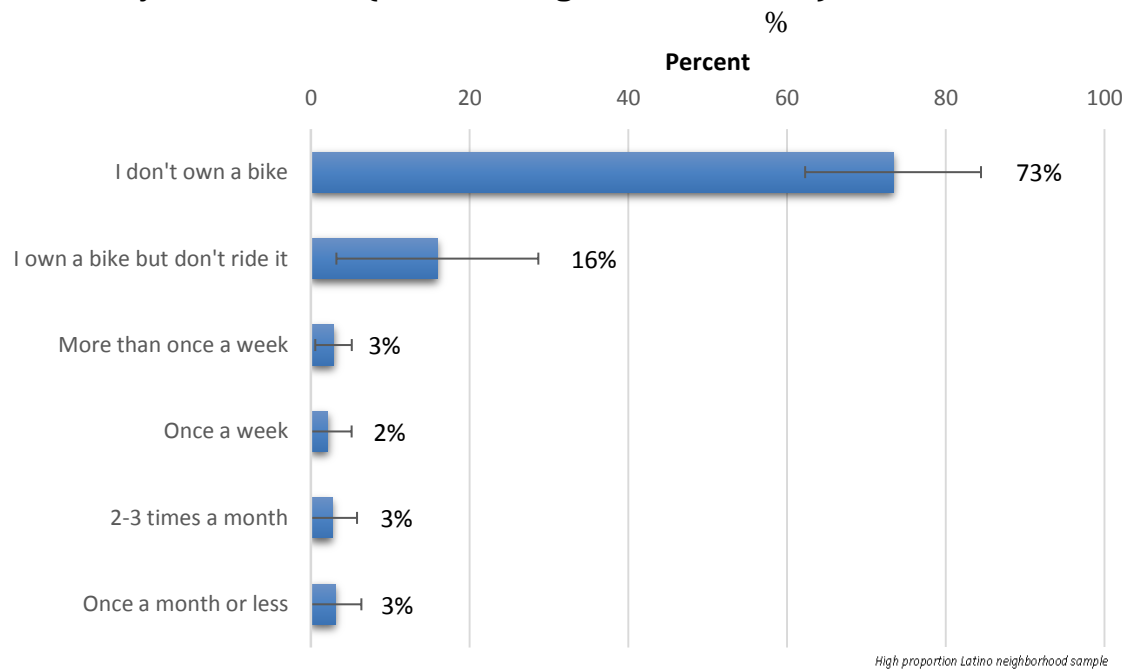
24. If you do not walk very much currently, why not? *(check all that apply)*



25. Whether you currently walk or not, what would make you want to walk more?
(check all that apply)

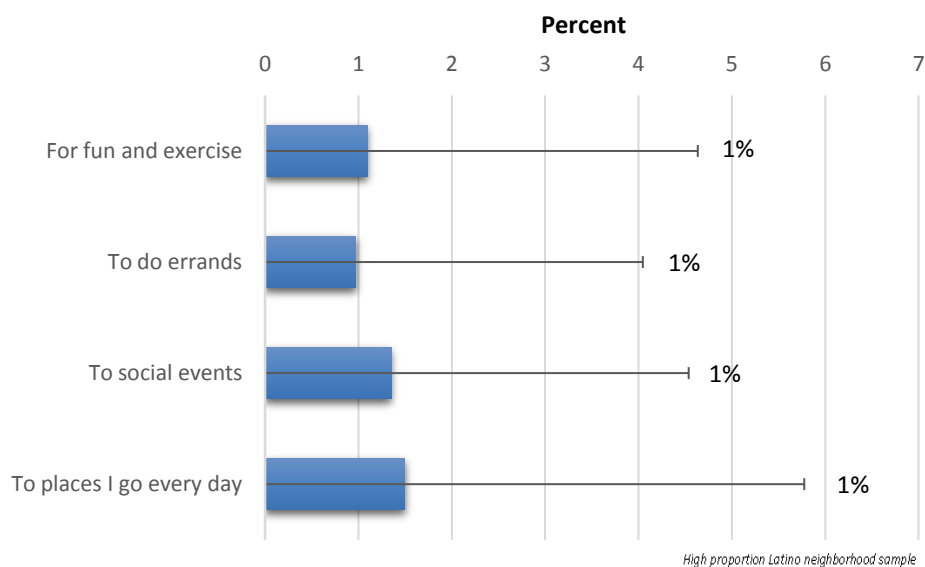


26. Do you ride a bike (not including an exercise bike)? If so, how often?



(n=168)

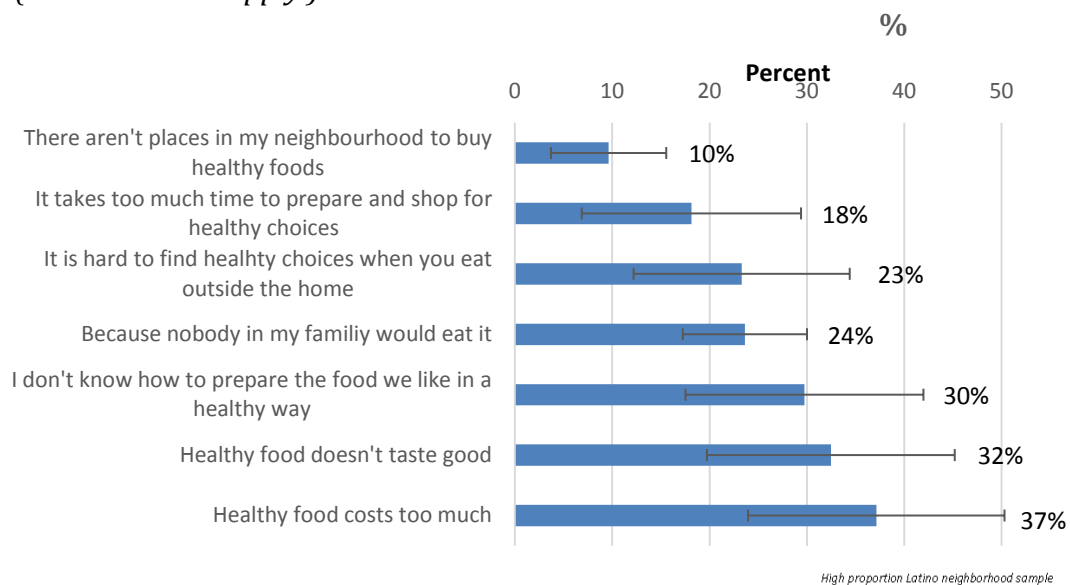
27. When you do ride your bike, where do you go? (Check and answer all that apply)



(n=19)

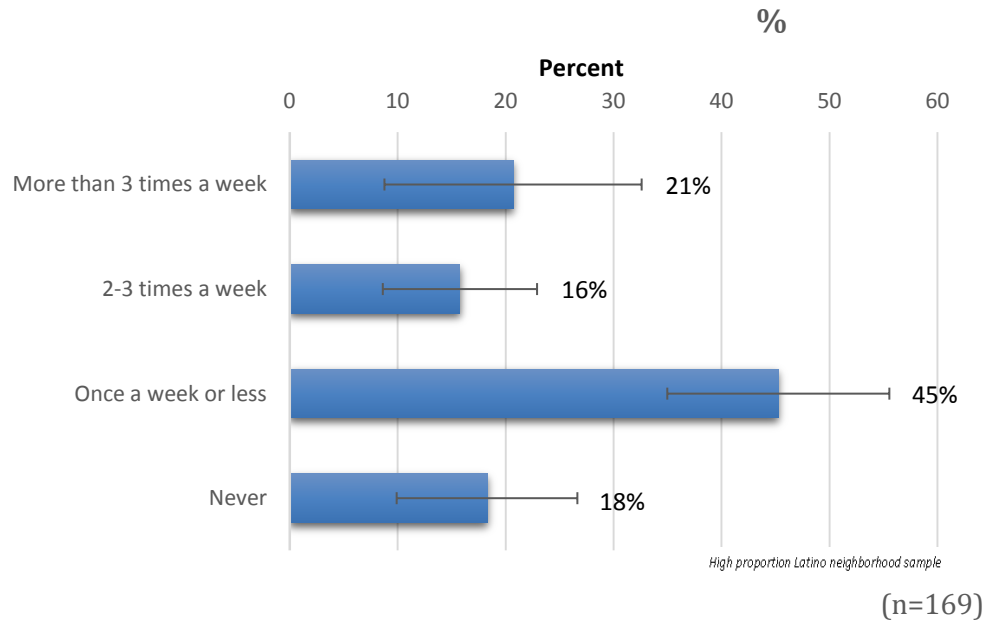
Diet:

28. Most of us don't eat healthy all the time. When you aren't eating a healthy diet, what do you think makes it hard for you to eat healthy? Tell me all that apply. (choose all that apply.)

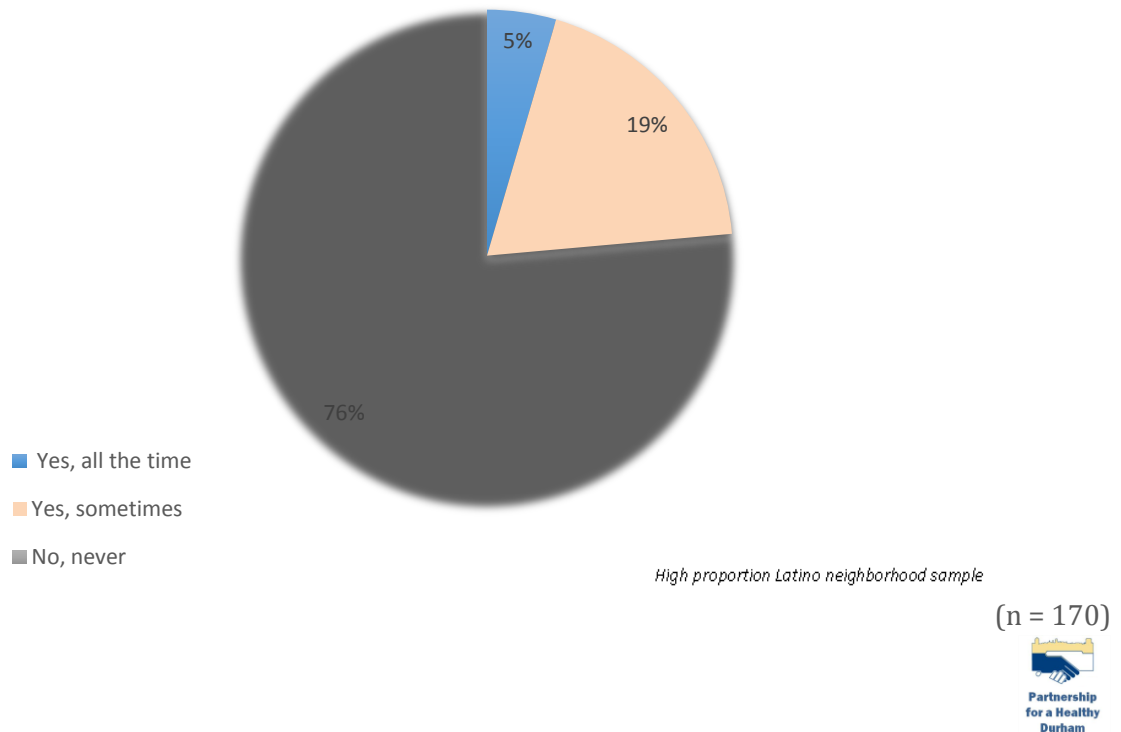


(n=168)

29. Thinking about breakfast, lunch, and dinner, how many times in a typical week do you eat meals that were not prepared at home, like from restaurants, cafeterias, or fast food?

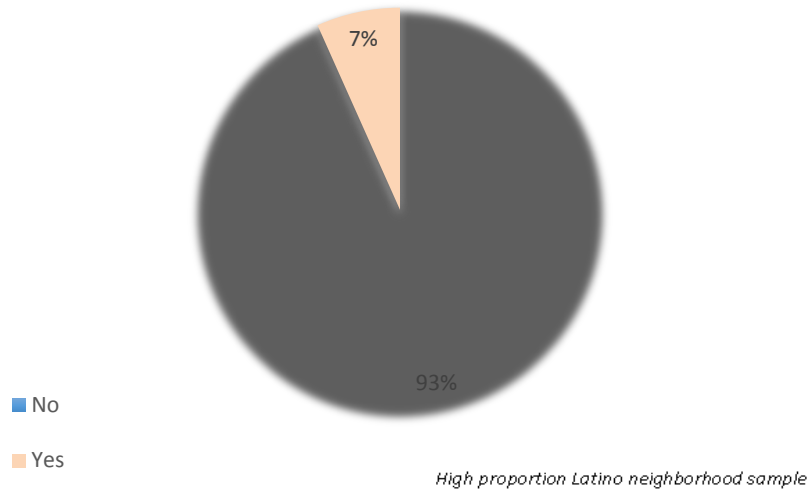


30. In the last 12 months, did you ever cut the size of your meals or skip meals because there wasn't enough money for food? (Read answer choices.)



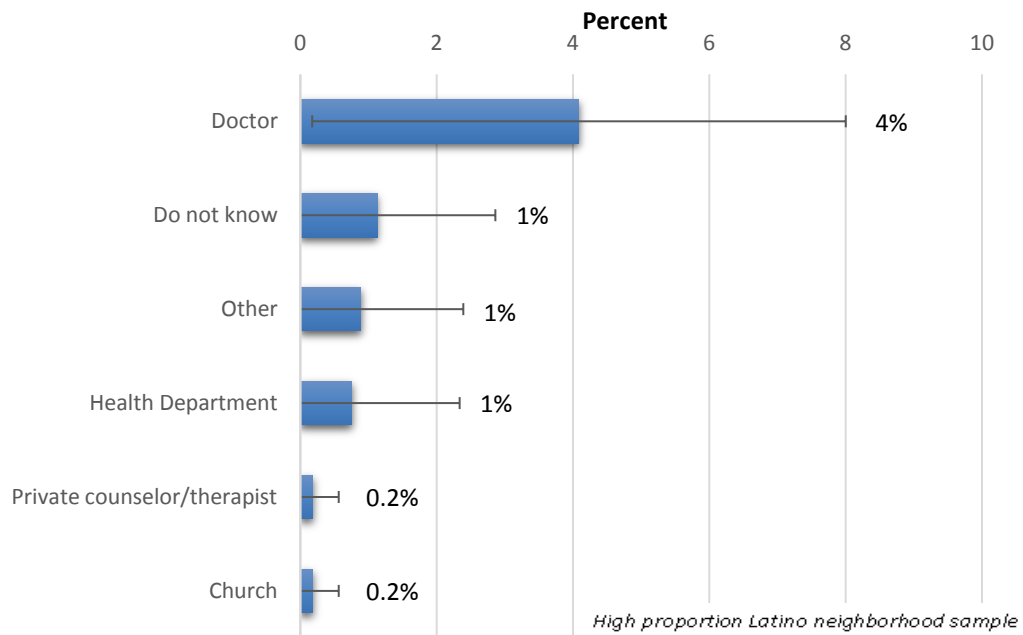
Smoking:

31. Do you currently smoke?



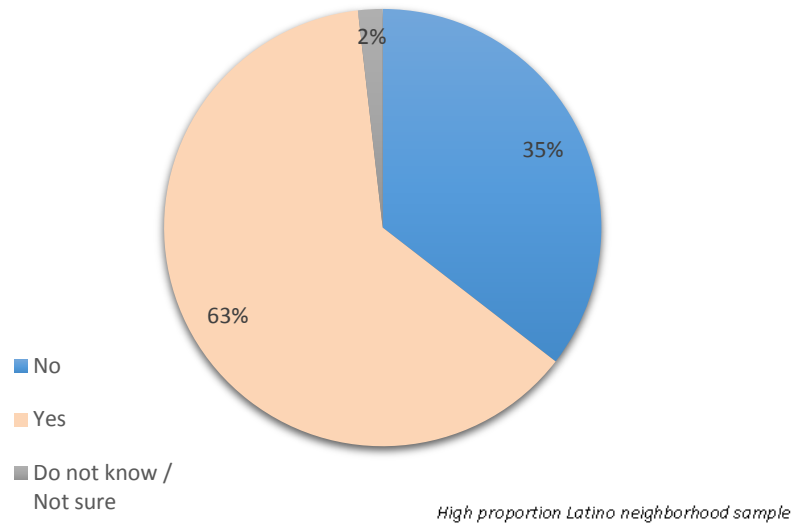
(n = 171)

32. If yes, where would you go for help if you wanted to quit? (Check all that apply.)



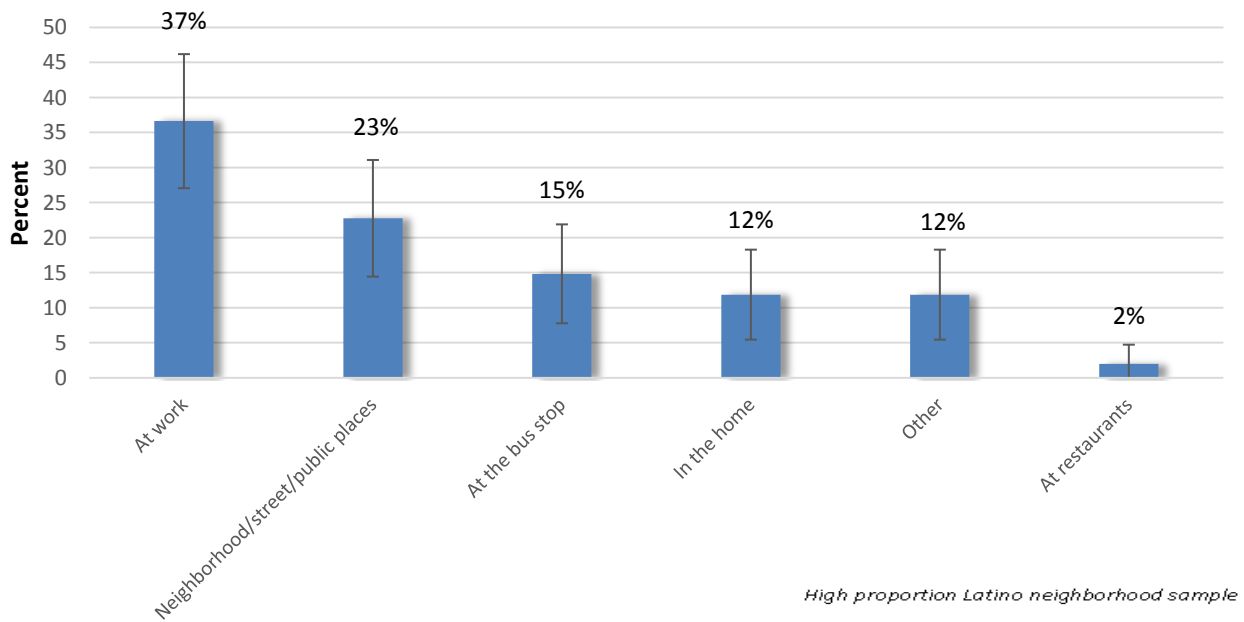
(n=14)

33. Have you been exposed to secondhand smoke in Durham County in the past year?



(n=169)

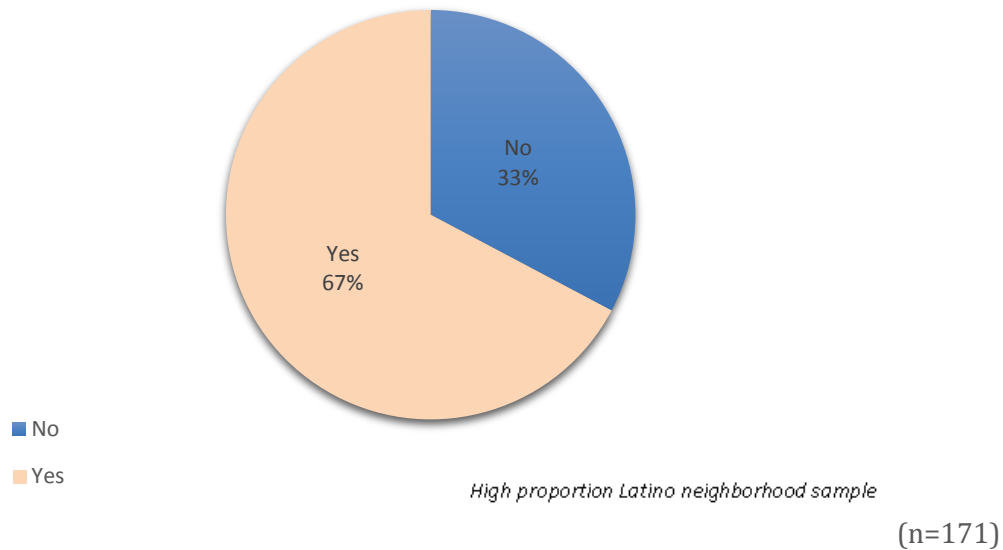
34. If yes, where do you think you are exposed to secondhand smoke most often?
(Choose one)



(n=101)

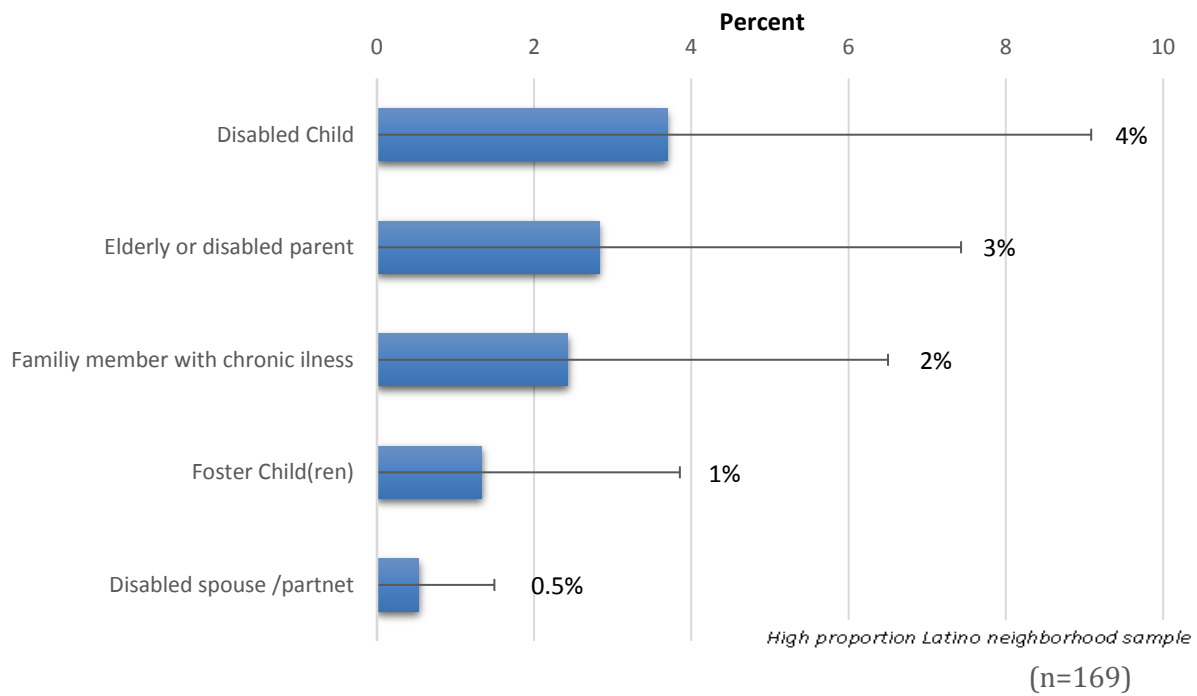


35. Are you aware that Durham has a Smoking Rule that does not allow smoking in outdoor public spaces such as parks, county government properties, certain sidewalks and bus stops?

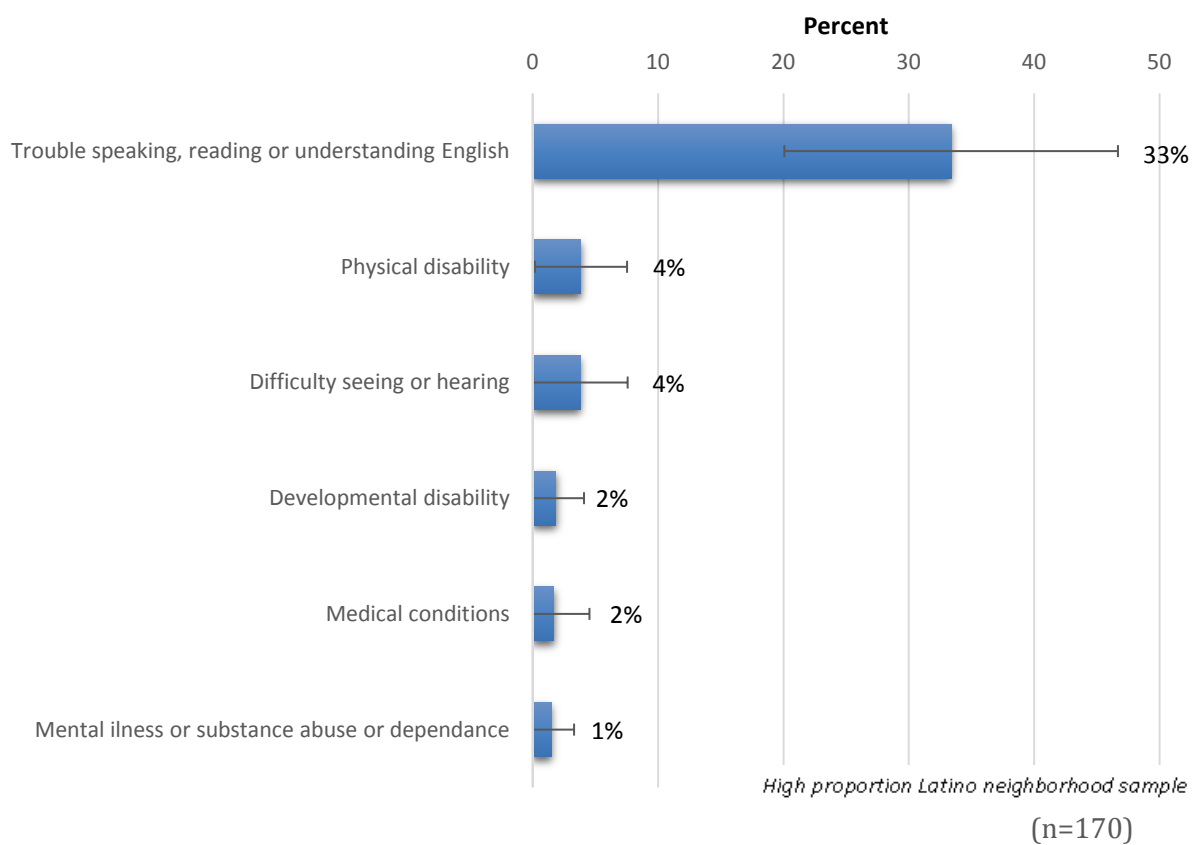


Household:

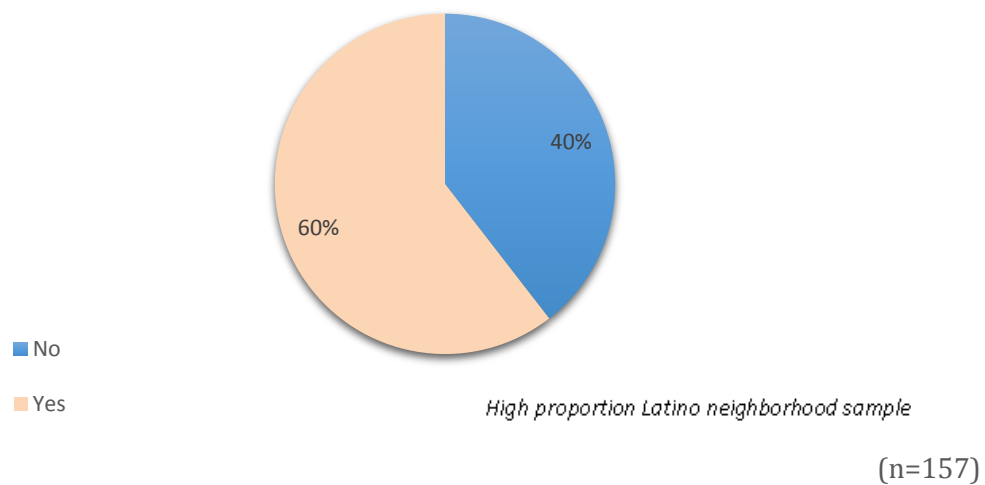
36. Are you currently caring for: (check all that apply)



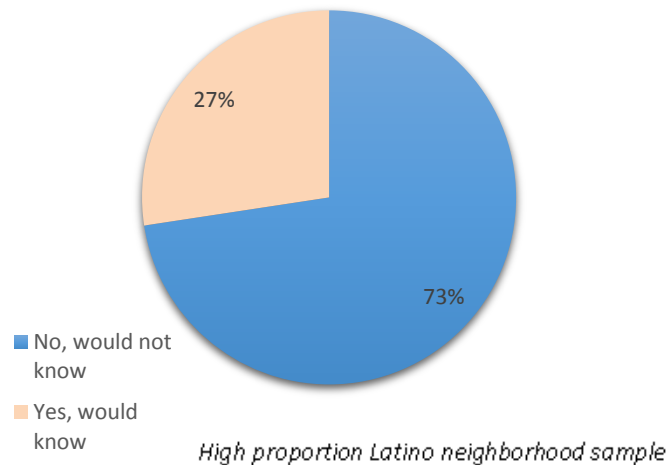
37. Does anyone in your household, including yourself, need support to be independent in daily activities because of a: (check all that apply)



38. Do you have access to the Internet?

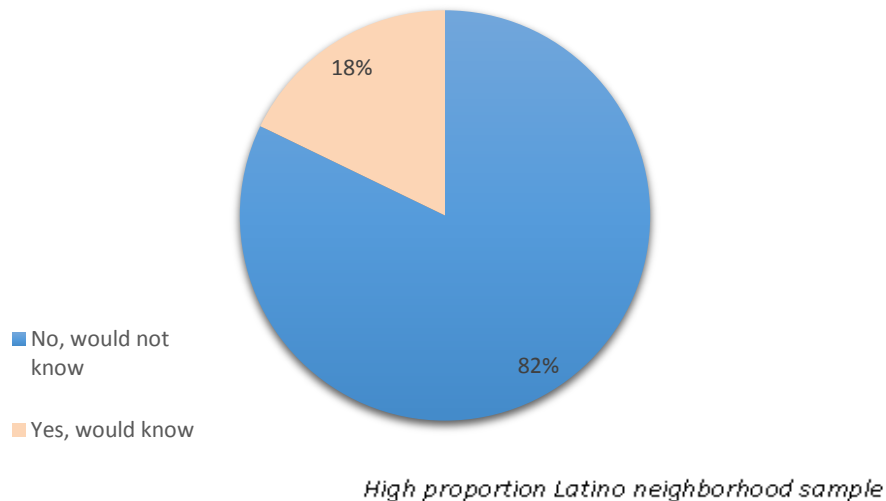


39. Do you feel like you know what City or County agencies to approach if you have problems with your house or household services (for example, your sewer, building code, or personal rights)?



(n = 171)

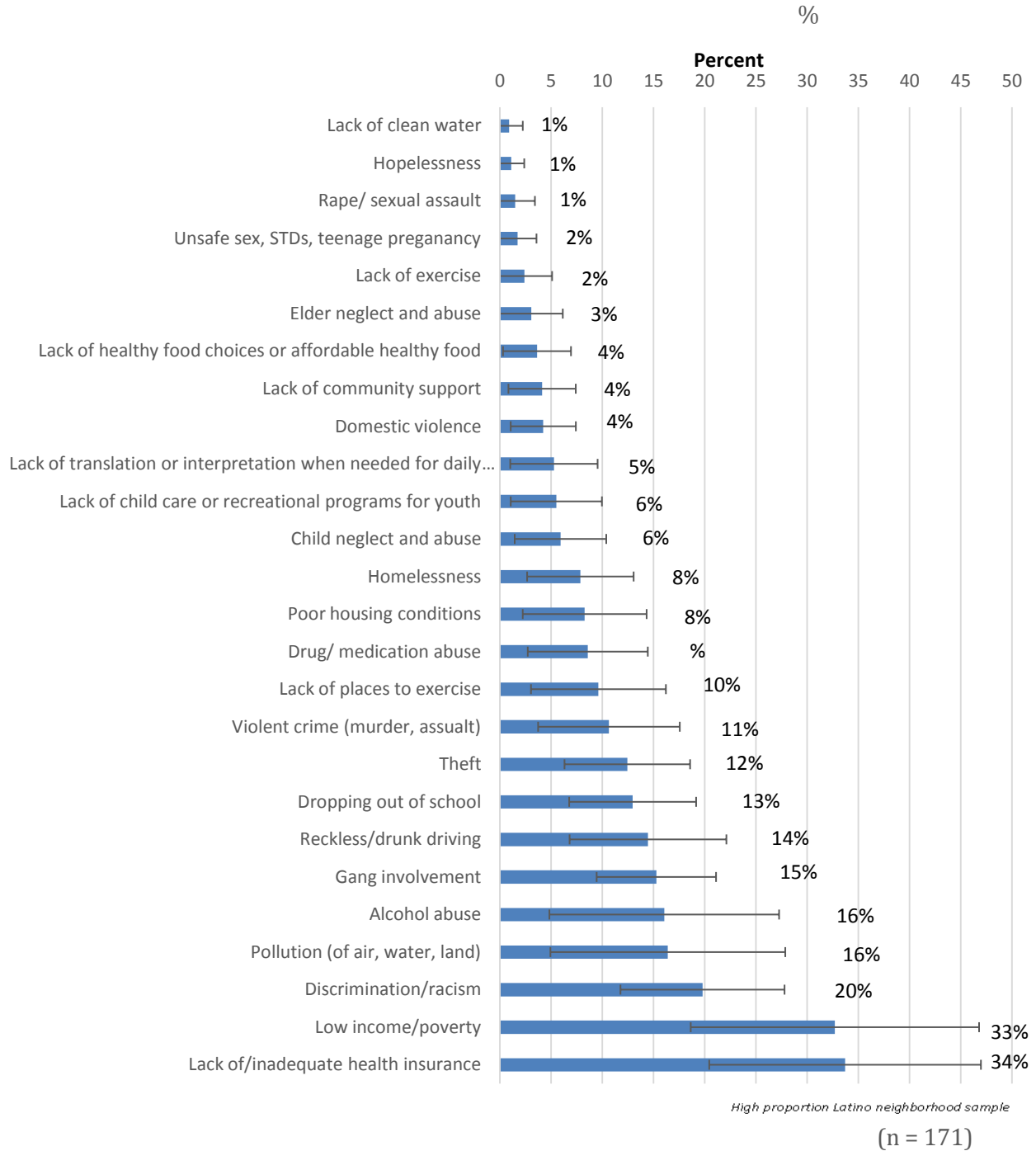
40. Do you feel like you know what City or County agencies to approach if you have problems in your neighborhood (for example, with your sidewalk, roads, or neighborhood disputes).



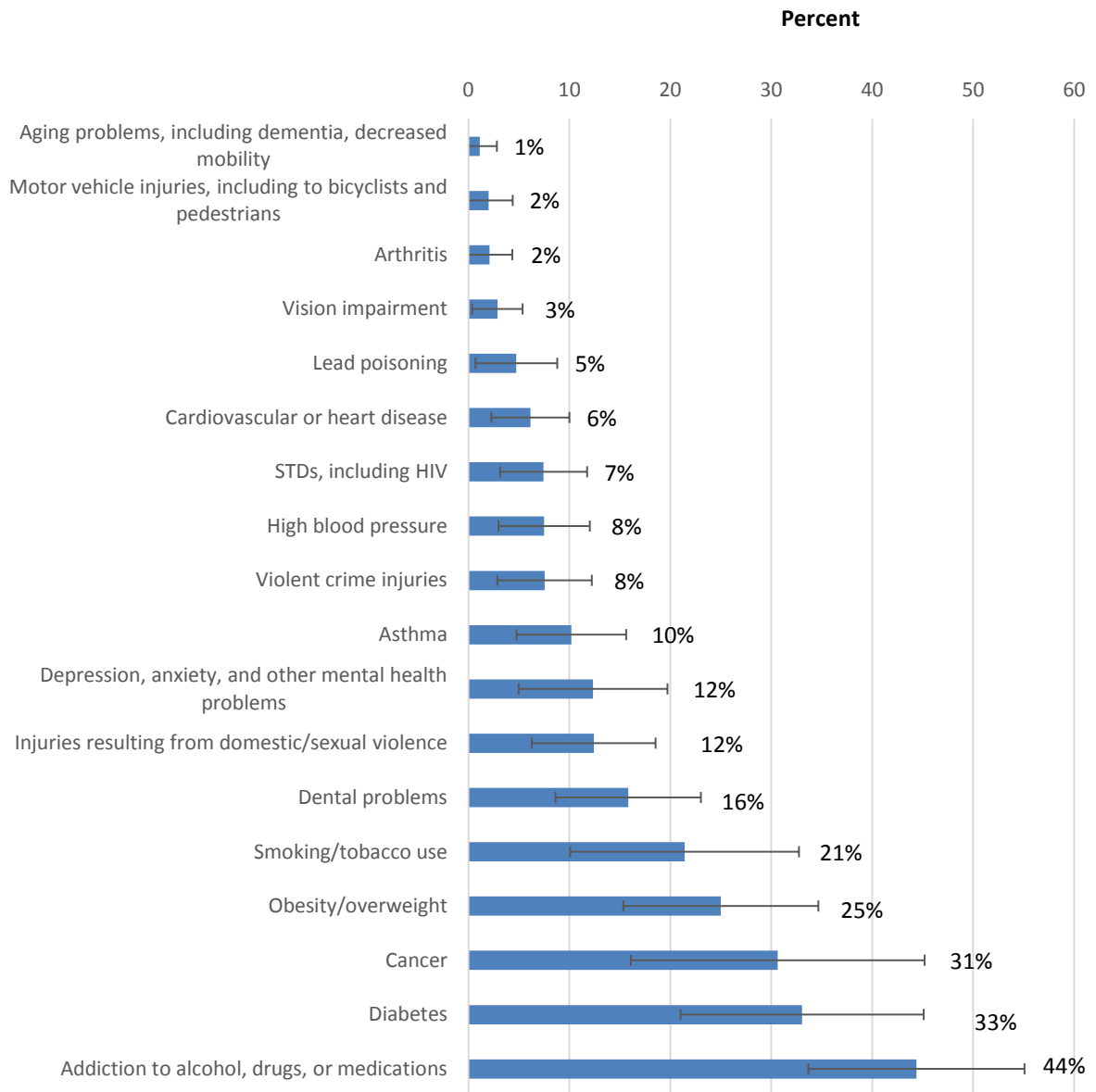
(n = 171)

PART 4: Community Improvement

41. Keeping in mind yourself and the people in your neighborhood, tell me the community issues that have the greatest effect on quality of life in Durham County. Please choose up to 3. Remember this is your opinion and your choices will not be linked to you in any way.



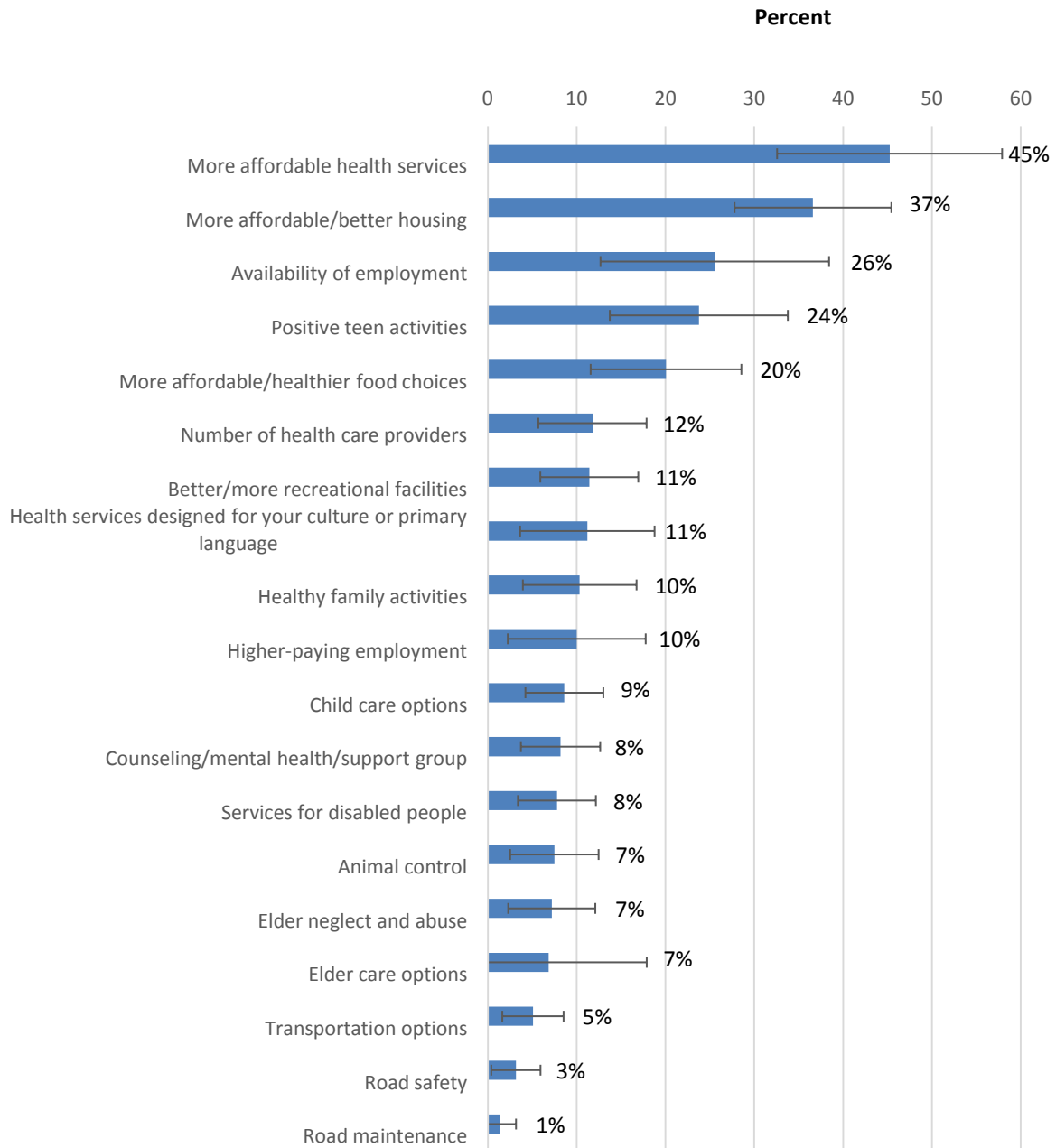
42. Keeping in mind yourself and the people in your neighborhood, I would like for you to name the most important health problems (that is, diseases or conditions). You can choose up to 3.



High proportion Latino neighborhood sample

(n = 170)

43. In your opinion, which one of the following services needs the most improvement in your neighborhood or community? (Please choose up to three.) If there is a service that you think needs improvement that is not on this list, please let me know and I will write it in

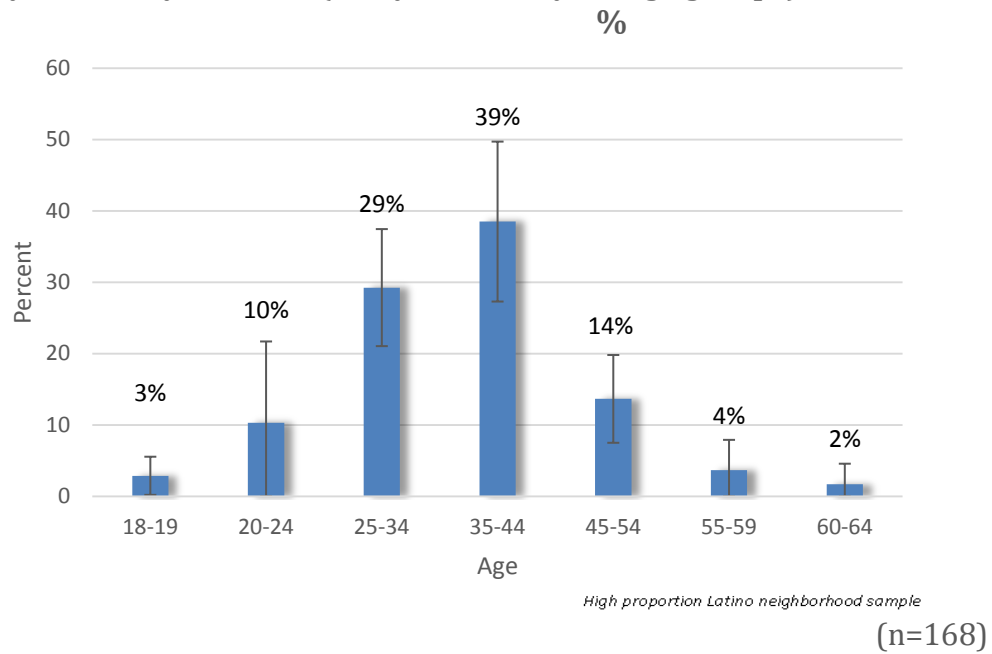


High proportion Latino neighborhood sample

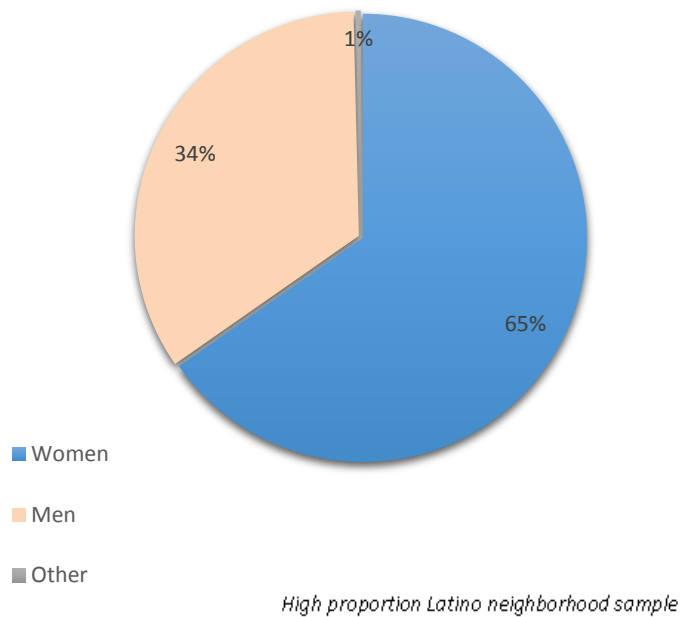
(n = 169)

Part 5. Demographic Questions

44. What year were you born? (analyzed as 10 year age groups)



45. What is your gender?

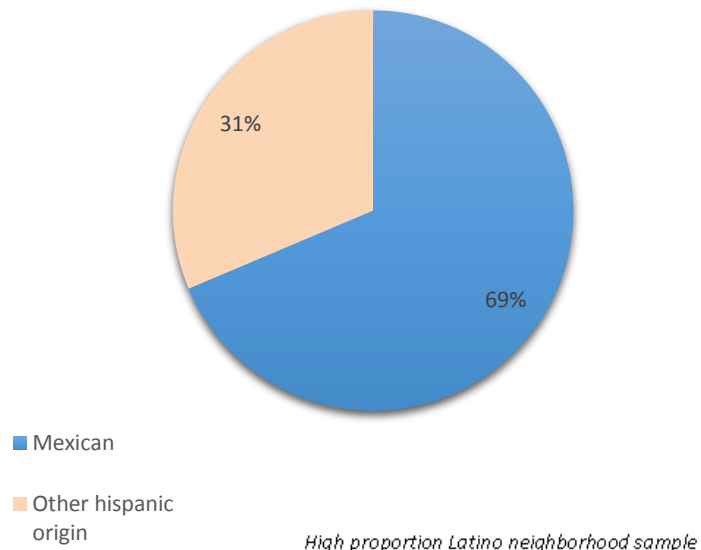


(N=171)

46. Are you of Hispanic, Latino, or Spanish origin?

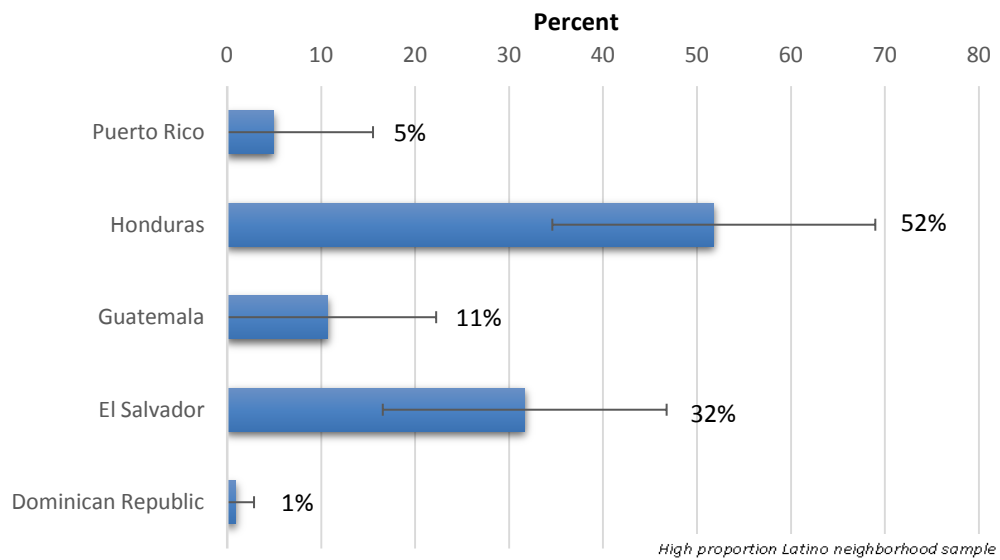
As being of Hispanic, Latino, or Spanish origin was a prerequisite for participation in this arm of the survey, no analysis was performed on this question.

47. If yes, are you: (Check all that apply)



(n= 159)

Of the people that responded 'Other Hispanic origin', these were their countries of origin:

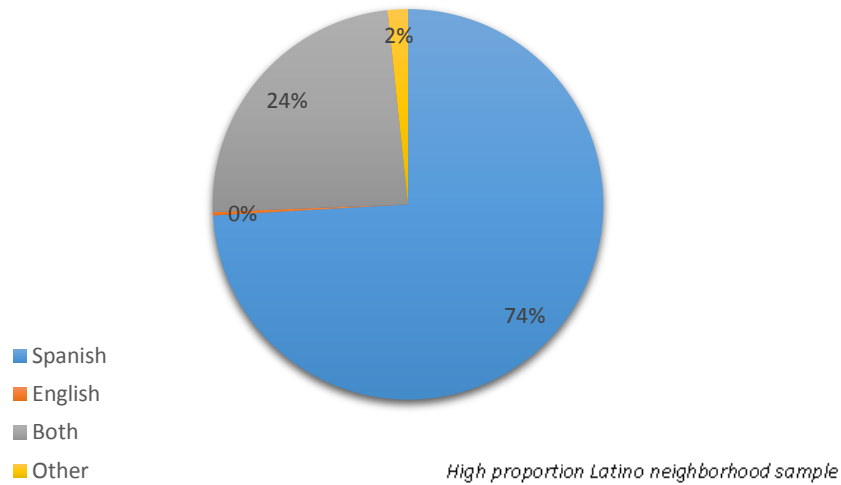


(n=68)

48. What is your race? Please choose all that apply.

County residents identifying themselves as “Hispanic or Latino” also gave “Latino” or their country of origin as their race, so race was not analyzed for this sample.

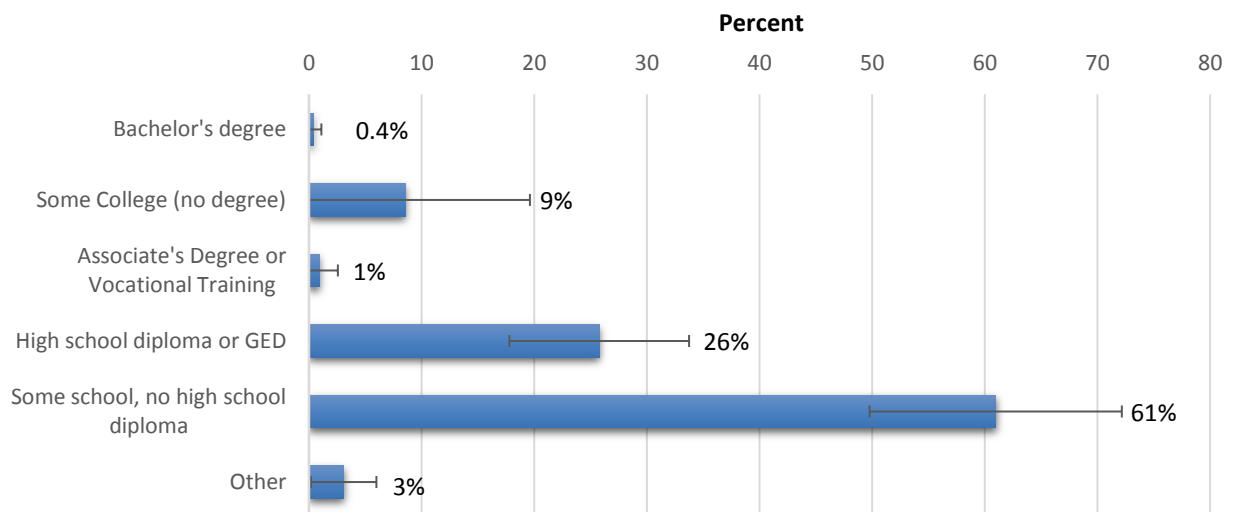
49. What languages do you speak at home? (Check all that apply)



(n=172)

Other languages spoken in the home included Chatino and Otomi, languages originating in Central Mexico.

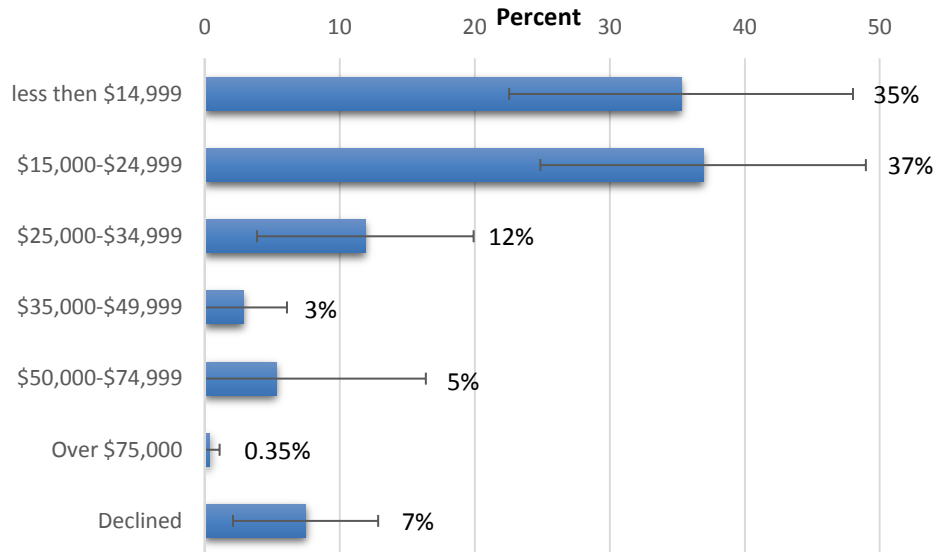
50. What is the highest level of school, college or vocational training that you have finished? (Choose one.)



High proportion Latino neighborhood sample

(n=169)

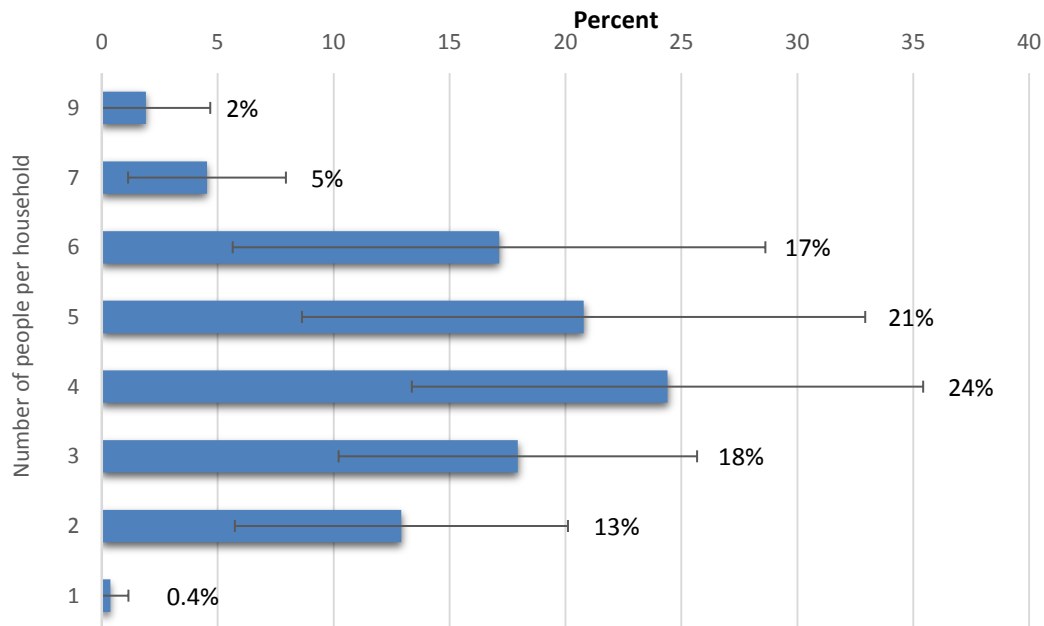
51. What was your total household income last year, before taxes? I will read out categories. Let me know which you fall into. (Choose one.)



High proportion Latino neighborhood sample

(n=172)

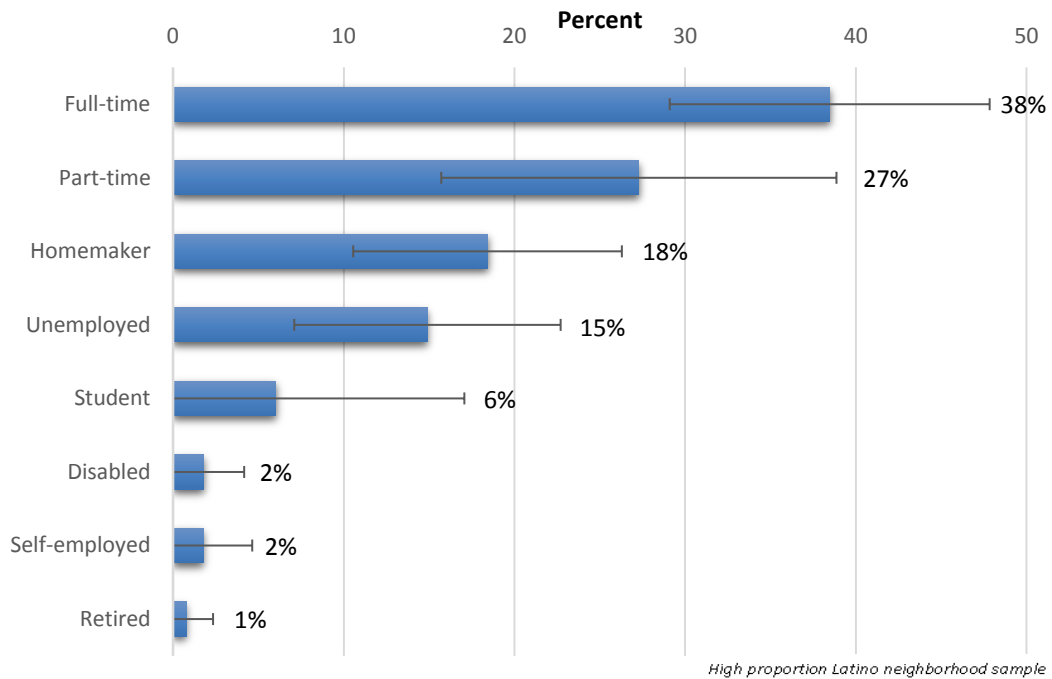
52. How many people does your total household income support?



High proportion Latino neighborhood sample

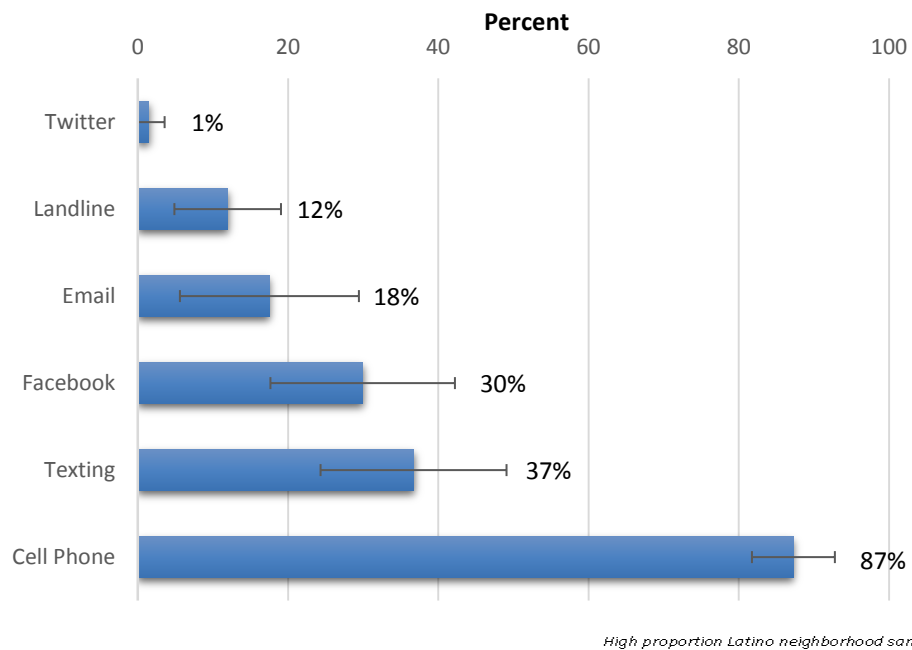
(n=165)

53. What is your employment status? I will read a list of choices. Let me know which ones apply to you. (Check all that apply.)



(n = 162)

54. Which form of communication do you regularly use? (Check all that apply.)



(n = 162)