**A Comparison of Depression and Anxiety Frequencies in Hispanic Adolescents, Northeast vs South in 2019**

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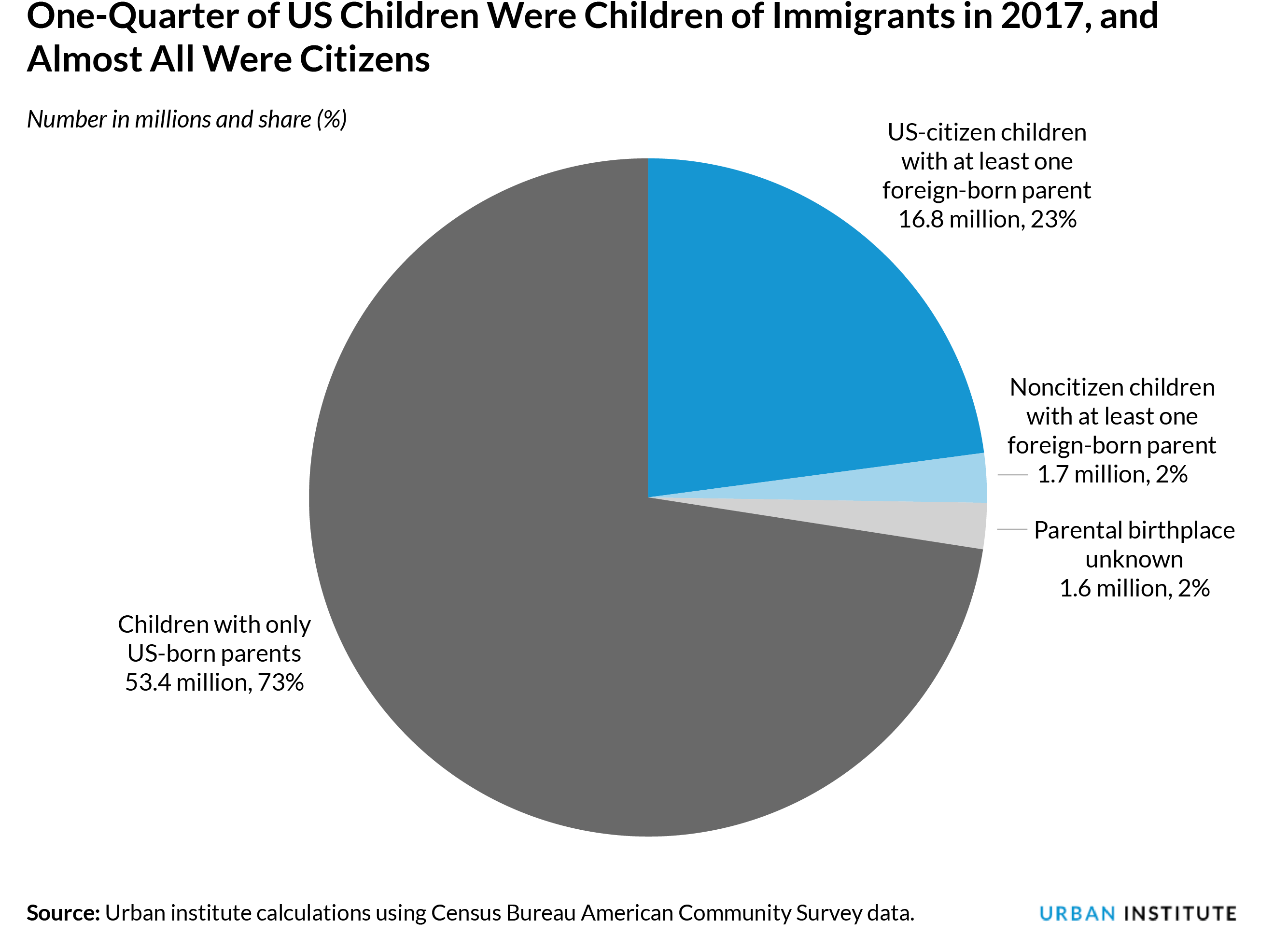
**Abstract**

Latinos are the largest minority living in the United States. Since the mid 2000’s deportation has become more common in the U.S. putting fear into immigrants living in the United States. U.S. born Latino children are safe from legal deportation, however they have parents, legal guardians or family friends in their community who are at risk for deportation. In 2017 there was a rise of anti-immigration policies and anti-immigrant rhetoric. The ACE (adverse childhood experience) Questionnaire is designed to detect traumatic events that occurred in a minor’s life and leads to the abnormal development of a child, following the ACE pyramid and ending early death. The ACE Questionnaire created by Feletti and Anda in 1997 has not been updated for decades. Studies have asked if ACE questions may not be capturing the adverse experiences specific to immigrant families. The question arises, is the ACE Questionnaire inclusive of the potential adverse experiences of children from all ethnicities and backgrounds? This study is to determine anxiety and depression frequencies of Hispanic adolescents in the U.S. in 2019. Data was accessed through the CDC National Health Interview Survey (NHIS) site. Responses of anxiety and depression reported by Hispanic adolescents were compared from Northeast to South region of the U.S. Mean anxiety and depression scores were calculated, and unpaired t-tests were run to determine statistical significance with standard deviation. Comparisons of depression scores between regions were not significant. Although, not significant anxiety frequency from non-Citizen participants were higher in the South than the Northeast. This suggests that experiences of Hispanic non-citizens in the Southern region are different and more anxiety inducing opposed to experiences non-citizens participants reported in the Northeast.

**Introduction**

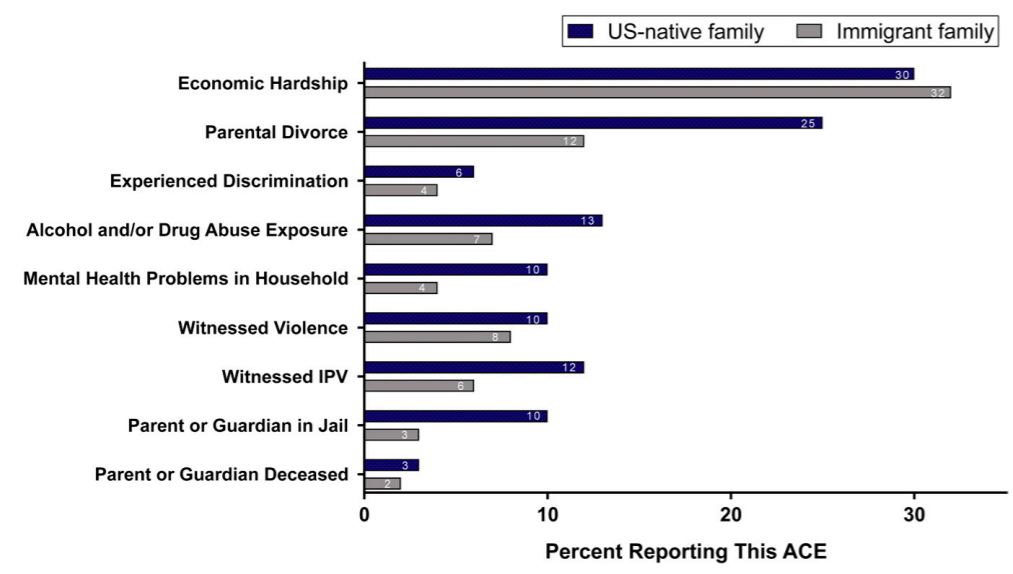
How would your life change if you knew at any moment you could be separated from your family members? This is one of the fears and sometimes the reality of many mixed status people. 4 in 10 Hispanic adults are in families with non-citizens (Kouam 2020). In 2017 the U.S. Census Bureau reported that 23% (16.8 million) U.S. children had at least one foreign born parent.

**Figure 1.** Pie chart of U.S. children and their parental nativity status



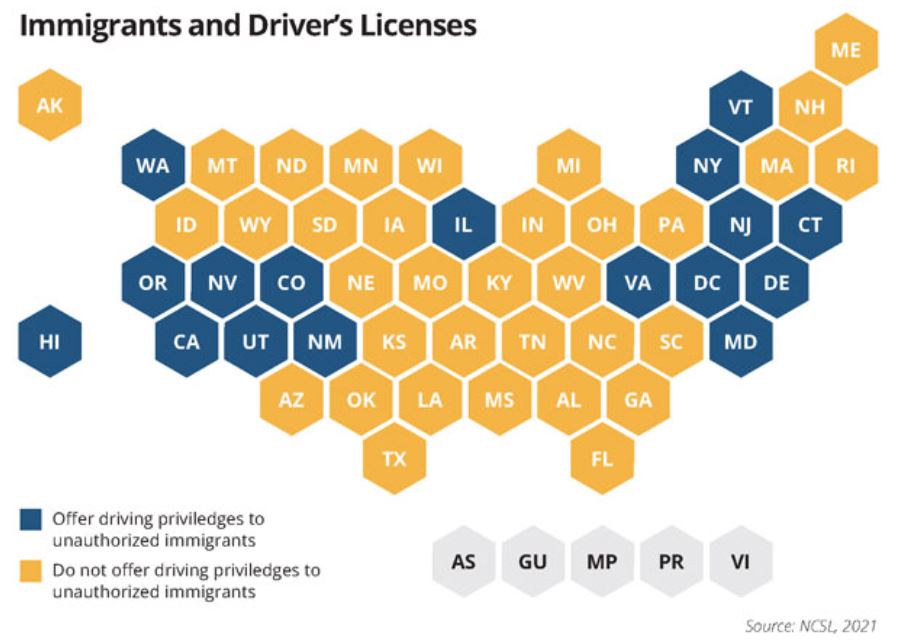
Children in immigrant families are known to report higher levels of separation anxiety (Zayas 2015) yet report a lower average of ACEs (Adverse Childhood Experiences) compared to U.S. Native Families (Caballero 2017). At the same time, children in immigrant families are more prone to violence exposure and food/economic insecurity (Capps 2009). Since the 2016 presidential election, the administration proposed anti-immigration policies and rhetoric have posed significant barriers to receiving health access in immigrant families (Callaghan 2019). During the COVID-19 pandemic many had lost financial security and less healthcare access, within the Rio Grande Valley community, undocumented immigrants were found with less financial security, inability to access healthcare and fear to seeking healthcare than Texas Natives (Blackburn 2021). In Southern Phoenix, Arizona, participants of Dr. Szkupinski’s study found 73% of participants were fearful a friend or family member would be asked for documentation/deported, and 78% had experienced at least one negative impact of immigration reinforcement (Szkupinski 2014). Dr. Bruzelius found evidence supporting the association between worsening mental health and increased arrest rates following the announcements of several anti-immigration policies (Bruzelius 2019). In Caballero’s study in 2017, although her study showed no significant evidence to support Hispanic children in immigrant families have more ACEs than U.S. Native children, she explained in the discussions that it may not indicate an advantage in the population (of Hispanics). She also found that the only ACE that Hispanic immigrant families reported more than Hispanic U.S. Native Families was “Economic Hardship.”

**Figure 2.** Caballero’s 2017 study “Individual ACEs reported (percentage) by immigrant family status”



I will be measuring and comparing the anxiety of Hispanic adolescents 14-17 in the Northeastern states of the U.S. vs. Hispanic adolescents in the Southern states of the U.S.. The reason I picked these two regions is they are extremely different in number of anti-immigration laws and political tolerance for immigrants. For example, in Southern states of the U.S. immigrants are not allowed to drive legally without proof of legal residence (NSCL 2021). Out of the 16 states that offer some or all people to obtain a license without proof of lawful presence only 4 are from the South out of the 17 Southern states total. Restricted access on a basic right such as driving could cause immigrant Hispanic children to have more anxiety frequency in the South than in the Northeast through fear of deportation for themselves, a parent or a loved one.

**Figure 3.** NCSL 2021 Map of states and driving privileges offered to immigrants



Hispanic mixed status children may also account for the anxiety and depression frequency which may be raised due to several anti-immigration policies announced in the South prior to 2019, such as Florida SB168, which prohibits state and local governments from having sanctuary policies and requires such entities to cooperate with federal immigration officers (ACLU). Arizona SB1070, which once allowed police to demand papers if they suspect someone is an immigrant, and legally detain someone they suspect could be legally deported. Dr. Gulbas’ study finds from mixed status children that an overwhelming factor of emotional distress in mixed status people is how likely it is for their parents to be deported (Gulbas 2018). We learn through Dr. Fix’s discussion portion of his study on mixed status families that you cannot enforce anti-immigration policies without affecting a mixed status family (Fix 2001).

**Statement of Purpose**

I hypothesize that Hispanic adolescents in the South region of the U.S. will report anxiety and depression more frequently than Hispanic adolescents in the Northeast region, some factors that I believe will come into consideration in this is the anti-immigrant policies and rhetoric presented under the Trump administration, tolerance of immigrants in the Southern states vs the Northeastern states and anti-Latino events such as the El Paso Walmart Shooting in 2019.

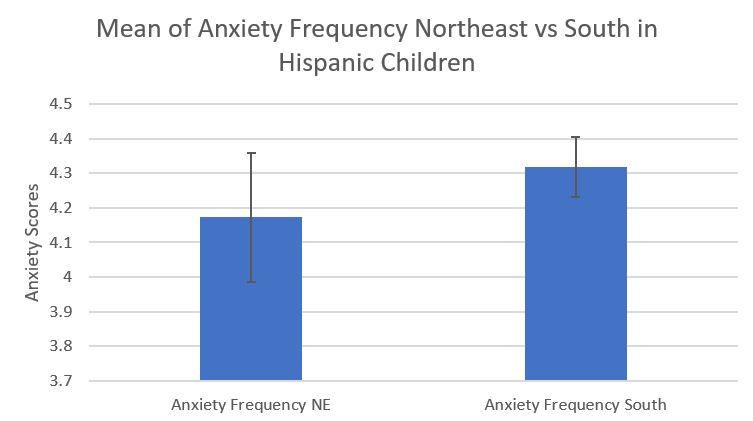
**Methodology**

I used open data from the CDC (Centers for Disease Control) National Health Interview Survey from 2019, using only child interviews. The CDC will randomly select certain addresses to represent the other households in similar communities to participate in the NHIS (National Health Interview Survey). That means one household may represent thousands of households, if a household chooses not to participate, the CDC does not replace them, meaning households like theirs may be underrepresented in the national study. Fortunately, the 2019 NHIS Child Data had a total of 9,193 participants, with 1,475 participants in the Northeast and 3,342 in the South. It is important to note that the NHIS child answers are not self-reported. Responsibilities of answering these questions are given to the parent or primary guardian. I began by eliminating unnecessary questions unrelated to race, region, age, anxiety, and depression, keeping the citizenship question for comparison in the study populations. Then I created 3 different spreadsheets, one of the participants in the South region and Northeast region, and one containing the Data Analysis of both regions. Beginning with 2 spreadsheets with Southern participants and Northeastern participants I used the data to determine whether the child was of Hispanic origin or not, eliminating non-Hispanic and those who reported “Other single and multiple race groups” since we could not determine whether those children were Hispanic and a non-Hispanic race or 2 non-Hispanic races race categories. On both Excel spreadsheets I decided to use 14–17-year-old children which is described as 14 being the cut-off for young teens and the leeway to adolescence described by the CDC. After eliminating other ages, I was able to find the mean for depression and anxiety frequency in both the South and Northeast regions. The anxiety question to determine frequency was “How often does (CHILDS NAME) seem very anxious, nervous, or worried? Would you say: daily, weekly, monthly, a few times a year or never?” Scores kept were 1-5, 1 for daily, 2 for weekly, 3 for monthly, 4 for a few times a year and 5 for never. The higher the score meant the child experienced anxiety less frequently. The depression question used to determine frequency was “How often does (CHILDS NAME) seem very sad or depressed? Would you say: daily, weekly, monthly, a few times a year or never?” Scores kept were 1-5, 1 for daily, 2 for weekly, 3 for monthly, 4 for a few times a year and 5 for never. The higher the score meant the child experiences depression less frequently. I then copied that data onto the Data Analysis spreadsheet and ran 2 t-tests Two-Sample Assuming Equal Variances, one for anxiety frequency and one for depression frequency and ran Standard Deviation on both frequencies using a p-value threshold of 0.05 to indicate moderate evidence.

**Results**

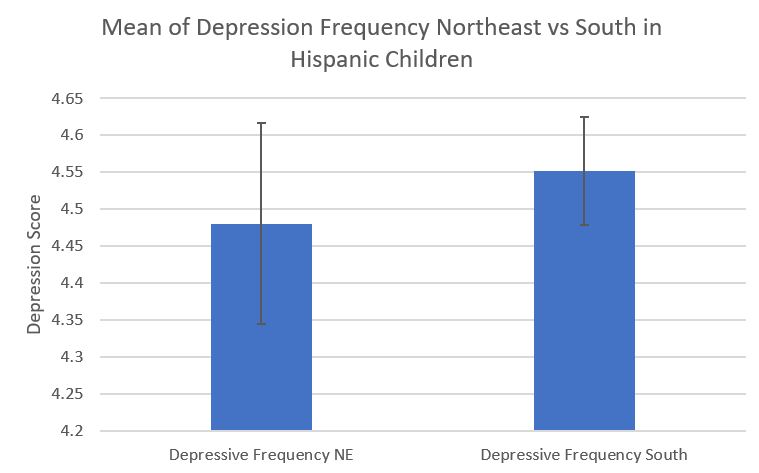
My results found that after running a t-Test: Two-Sample Assuming Equal Variances on anxiety frequency in Hispanic adolescents (14-17) in the Northeast vs the South of the U.S. there was no significance. Neither region reported significantly more anxiety frequency than another region with a p value > 0.1 indicating insufficient evidence to support the hypothesis. The Northeast participant total that fit the criteria came to 52 participants, while the South participant number was higher at 154 participants.

**Figure 4.** Mean of Anxiety Frequency Northeast vs South in Hispanic children, the higher the score the less frequency for anxiety



The mean of anxiety frequency among Hispanic adolescents in the Northeast (NE) came out to 4.173076923 which meant the participants in the Northeast reported anxiety more frequently than the Southern participants with a mean of 4.318 (figure 4). After running a t-Test: Two-Sample Assuming Equal Variances on the depression frequency in Hispanic adolescents in the Northeast vs the South, the t-test found p-value > 0.1, indicating insufficient evidence to support the alternative hypothesis. The mean of depression frequency in the Northeast participants came out to 4.480769231 and the South participants were found to have a mean of 4.551948052. Although the depressive frequency was insignificant, South participants reported slightly less frequency of depression than Northeast participants.

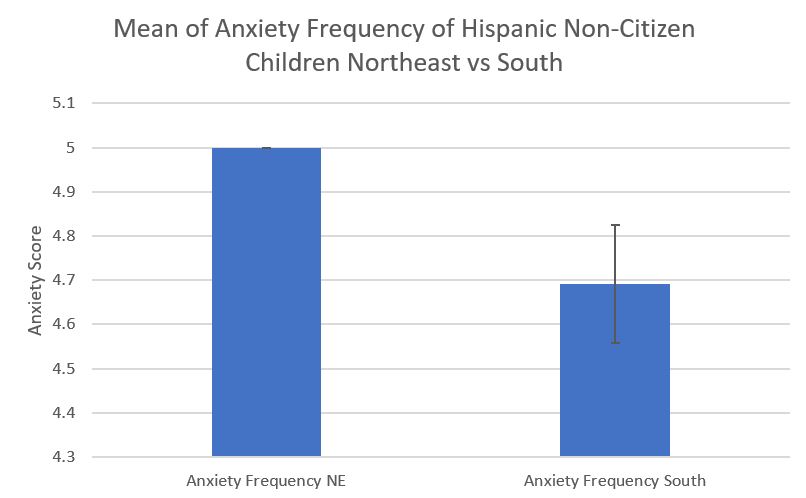
**Figure 5.** Mean of Depression Frequency Northeast vs South in Hispanic Children, the higher the score the less frequency for depression



Both anxiety and depression frequencies were reported more frequently in the Northeast region of the U.S. among Hispanic adolescents but neither had a p value that indicated significance or a notable trend.

After these findings I decided to go more in depth on whether citizenship may show different findings in Hispanic adolescents based on region. I decided to take the same two regions using Hispanic adolescents (14-17) who were not U.S. citizens, eliminating those who reported that their children were citizens and those who refused to answer or left the question blank. Leaving 6 participants who fit the criteria and were non-citizens in the Northeast region, and 13 participants also fitting the criteria in South. When running a t-Test: Two-Sample Assuming Equal Variances on Hispanic adolescent non-citizens in the Northeast vs the South, there was an interesting relationship where non-citizens in the Northeast reported less anxiety frequency than those of the South, however the data was insufficient because when you are comparing 6 to 13 participants the sample size just is not large enough to represent children of entire regions of the U.S..

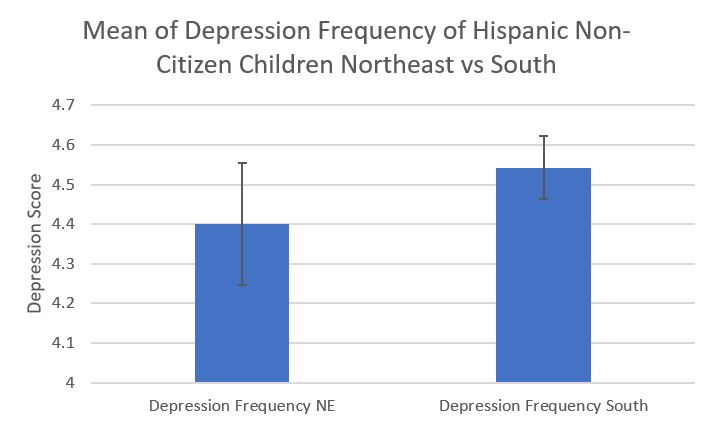
**Figure 6.** Mean of Anxiety Frequency of Hispanic Non-Citizen Children Northeast vs South, the higher the score the less frequency for anxiety



None of the 6 participants reported anxiety in the Northeast with a mean of 5 (never). In the South region, 4 of the participants reported anxiety “a few times a year” (4), while the rest reported no anxiety leaving the South region with a mean of 4.692307692.

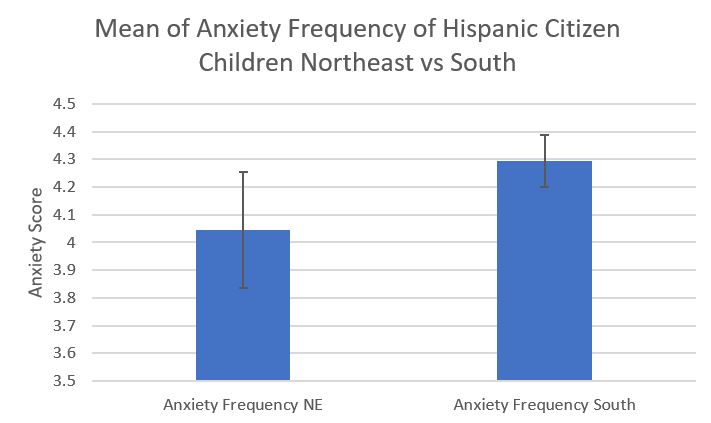
When measuring depression frequency of non-citizen participants using a t-Test: Two-Sample Assuming Equal Variances, we found none of the 6 non-citizen participants in the Northeast reported depression frequency leaving a mean of 5, the participants from the South reported a mean of 4.615384615, 3 participants from the South reported 4’s (few times a year) and 1 participant reported a 3 (monthly), while the rest reported no depression frequency. The t-Test reported a p value > 0.05 indicating weak evidence/trend.

**Figure 7.** Depression Frequency t-Test in Hispanic Adolescent non-citizens Northeast vs South, the higher the score the less frequency for depression



Since I ran these tests for non-citizen Hispanic adolescents, I decided to do the same for Hispanic adolescent citizens in the Northeast vs South. The remaining participants in the Northeast turned out to be 45 participants and in the South 140 participants. We begin by measuring anxiety frequency in Hispanic citizen adolescents and found the data was insignificant, with a p value > .1. Although the data was insignificant, Hispanic citizen adolescents in the Northeast reported more anxiety frequency compared to those in the South, Northeast with a mean of 4.0444, and the South with a mean of 4.292, an exceedingly small difference.

**Figure 8.** Mean of Anxiety Frequency of Hispanic Citizen Children Northeast vs South, the higher the score the less frequency for anxiety



We then calculated the scores for depression frequency in Hispanic citizen adolescents and found that the data was also insignificant with a p value> 0.1, and like the anxiety scores the citizen children in the Northeast reported higher depression frequency compared to the South participants.

**Figure 9.** Mean of Depression Frequency of Hispanic Citizen Children Northeast vs South, the higher the score the less frequency for depression

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We decided to find the scores and compare anxiety and depression frequency in non-citizen vs citizen participants in each region. When it came to the anxiety scores for non-citizens, the p value> 0.1, which indicated no significance. However, non-citizen adolescents in the Northeast reported more frequency for anxiety than non-citizen adolescents in the South (Figure 9).

**Discussion and Conclusion**

Overall, most of the data included showed to be insignificant besides one with trend/insufficient evidence. The hypothesis could not be supported with the data presented but confounding factors must be considered to figure out why the data may not align with the hypothesis. One factor is the fear non-citizens may carry which may push them to not answer the questions, when it can to narrow down citizen participants and non-citizen participants there were very few non-citizen participants in each region compared to citizens. One option for the citizenship question is to refuse to answer that question which eliminated some participants or some who might have opted out of the survey due to suspicion. For the 2019 CDC NHIS Question answering, since it was a reflection on 2019 and COVID-19 shut down several facilities, the interviews were held over the phone, which could arouse even more suspicion. It is also important to re-iterate that one house selected is meant to select 1000s of households, and when that one house chooses not to participate it leaves room for being underrepresented in the national survey.

Another factor that may have come into play is the amount of time that a non-citizen has been in the United States. In Dr. Perreira’s study she found that children who had been in the U.S. longer reported more anxiety than those who had arrived and lived in the U.S. for a short amount of time. Unfortunately, the CDC data does not ask participants what country they may come from, so in that case you may have a child that is moving from a more rural area or area ridden with crime or political corruption to the U.S.

These findings followed the pattern of Dr. Perreira’s study and Dr. Caballero’s study, who found that immigrant families reported less ACEs than U.S. Native families. Like Dr. Caballero mentioned in her study, these findings may not indicate an advantage in the Hispanic non-citizen population, since they report more food insecurities (Capps 2009), and more economic hardships (Caballero 2017).

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