Longitudinal Trajectories of Family Functioning Among Recent Immigrant Adolescents and Parents: Links With Adolescent and Parent Cultural Stress, Emotional Well-Being, and Behavioral Health

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This study examined longitudinal effects of adolescent and parent cultural stress on adolescent and parent emotional well-being and health behaviors via trajectories of adolescent and parent family functioning. Recent immigrant Latino adolescents ($M_{age} = 14.51$) and parents ($M_{age} = 41.09; N = 302$) completed measures of these constructs. Latent growth modeling indicated that adolescent and parent family functioning remained stable over time. Early levels of family functioning predicted adolescent and parent outcomes. Baseline adolescent cultural stress predicted lower positive adolescent and parent family functioning. Latent class growth analyses produced a two-class solution for family functioning. Adolescents and parents in the low family functioning class reported low family functioning over time. Adolescents and parents in the high family functioning class experienced increases in family functioning.

Adolescence is a time of rapid change and many transitions (Coleman, 2011), during which adolescents can experience lower emotional well-being (e.g., increased depressive symptoms, hopelessness, and decreased self-esteem) and increased risk for involvement in health compromising behaviors (e.g., alcohol and cigarette use, aggression, rule
examined how latent classes of parent–family functioning was compromised in the presence of predicted lower adolescent depressive symptoms (tillo, Unger, et al., 2015), positive family functioning immigrant Latino families (Cano, Schwartz, Castillo, Romero, et al., 2015; Kann et al., 2014). These health disparities are concerning given that 25% of children in the United States K-12 school system identify as Latino, and it is projected that by 2050, 30% of newborn children will be Latino (U.S. Census Bureau, 2014).

Latino immigrant youth often report better emotional well-being and behavioral health than their U.S.-born counterparts. However, research indicates that their emotional well-being and behavioral health worsens as they spend time in the United States (e.g., Alcántara, Estevez, & Alegria, 2017). One possible reason for this immigrant paradox might involve changes in family functioning (e.g., lower or higher family cohesion, involved parenting, and positive parenting) that might be influenced by cultural factors and can occur as Latino adolescents and their parents navigate the U.S. cultural context (Alcántara et al., 2017). In the United States, Latino immigrant adolescents and their parents can experience cultural stressors that result from navigating multiple cultural contexts, a negative context of reception, and experiencing discrimination (Cano, Schwartz, Castillo, Romero, et al., 2015; Gassman-Pines, 2015; Lorenzo-Blanco, Meca, Unger, Romero, Gonzales-Backen, et al., 2016; Schwartz et al., 2014, 2015), and these cultural stressors can negatively influence family functioning, emotional well-being, and health-risk behaviors among adolescents and parents. For example, in a daily diary study (Gassman-Pines, 2015), Mexican immigrant parents reported that, on days when they experienced workplace discrimination, they interacted less warmly and more adversely with their children, experienced lower emotional well-being, and reported more child internalizing and externalizing behaviors. In a longitudinal study with recent immigrant Latino families (Cano, Schwartz, Castillo, Unger, et al., 2015), positive family functioning predicted lower adolescent depressive symptoms and health-risk behaviors 6 months later, and family functioning was compromised in the presence of parent–child acculturation discrepancies. In another study using the same data, Córdova et al. (2016) examined how latent classes of parent–adolescent family functioning discrepancy scores developed over time. They reported that, compared to adolescents in the low family functioning discrepancy class, adolescents in the high family functioning discrepancy class engaged in more sexual risk behaviors.

However, most of the published research has (a) used cross-sectional study designs, (b) not investigated how parent and adolescent views of family functioning evolve separately and together over time, or (c) focused on parent–adolescent family functioning discrepancies. As a result, we know less about the separate developmental trajectories of both parent- and adolescent-reported family functioning. To address this gap in the literature, and informed by ecodevelopmental theory, which posits that the family is the most proximal unit to youth development and that family functioning can change over time, we examined the separate developmental trajectories of adolescent- and parent-reported family functioning. The present study not only helps to bridge the literatures on the immigrant paradox (Alcántara et al., 2017) and child and family functioning, but it also advances the child developmental literature in several key ways. First, we operationalized family functioning as a multifaceted construct consisting of family cohesion, positive parenting, and involved parenting. Second, we examined the effects of two separate family functioning trajectories (i.e., one for adolescents and one for parents) on the emotional well-being and health-risk behaviors of both recent immigrant Latino adolescents and their parents. Third, heterogeneity exists in how well families function, and prior studies have not identified types of Latino families who may differ from each other based on the developmental trajectories of both parent and adolescent views of family functioning trajectories. As such, in the present study, we empirically identified unique subgroups of recent immigrant parents and adolescents who differed based on family functioning trajectories for adolescents and their parents. Finally, we examined potential differences across these family functioning subgroups in terms of adolescent and parent emotional well-being and behavioral health. Informed by the family stress model (FSM), which suggests that parent cultural stress may lead to changes in family functioning to negatively affect youth development (Conger, Conger, & Martin, 2010) as well as the cultural stress literatures, we investigated (a) whether parent and adolescent cultural stress predicted lower initial levels of and change in parent- and adolescent-reported family functioning, and (b) whether latent classes of family
functioning differed by parent and adolescent cultural stress.

**Theoretical Basis: Ecodevelopmental Theory and the FSM**

Ecodevelopmental theory (Szapocznik & Coatsworth, 1999) posits that adolescent development is influenced by proximal (i.e., settings in which adolescents directly participate) and distal (i.e., settings in which adolescents do not directly participate) contexts, with the family representing the most proximal system for adolescent development. The family environment might be particularly relevant for Latino youth given the emphasis on cultural values that promote close family relationships in Latino cultures (Lugo Steidel & Contreras, 2003). Importantly, ecodevelopmental theory recognizes that contextual processes such as family functioning can change over time.

Proximal and distal contexts that may lead to changes in family functioning and influence youth development can include cultural stressors experienced by adolescents and their parents. These cultural stressors can involve adolescents’ and parents’ experiences with discrimination, acculturative stress, and a negative context of reception (which we define below; Cano, Schwartz, Castillo, Romero, et al., 2015; Lorenzo-Blanco, Meca, Unger, Romero, Gonzales-Backen, et al., 2016; Lorenzo-Blanco, Meca, Unger, Romero, Szapocznik, et al., 2016). According to the FSM, parents’ cultural stressors may indirectly influence Latino adolescents’ emotional well-being and behavioral health by negatively impacting parents’ emotional well-being and the overall functioning of the family (e.g., Conger et al., 2010). Thus, according to ecodevelopmental theory and the FSM, cultural stressors experienced by adolescents and parents may lead to changes in family functioning, which in turn may affect adolescents’ and parents’ emotional well-being and behavioral health.

**Family Functioning, Emotional Well-Being, and Behavioral Health**

Family functioning can be characterized as a multifaceted construct consisting of parental involvement, family cohesion, positive parenting, and other positive relational processes (Tolan, Gorman-Smith, Huesmann, & Zelli, 1997). The importance of positive family functioning vis-à-vis the positive emotional well-being and behavioral health of Latino adolescents and parents has been demonstrated empirically in a number of studies. Among Latino youth and adults, positive family functioning has been linked with lower depressive symptoms (e.g., Cano, Schwartz, Castillo, Unger, et al., 2015; Lorenzo-Blanco & Cortina, 2013), reduced risk for suicidality (e.g., Baumann, Kuhlberg, & Zayas, 2010), lower substance use (e.g., Canino, Vega, Sribney, Warner, & Alegria, 2008; Cano, Schwartz, Castillo, Unger, et al., 2015), lower sexual risk taking (e.g., Cano, Schwartz, Castillo, Unger, et al., 2015), less aggressive and rule-breaking behavior (e.g., Santisteban, Coatsworth, Briones, Kurtines, & Szapocznik, 2012), and higher self-esteem (Schwartz et al., 2015).

**Cultural Stress, Family Functioning, Emotional Well-Being, and Behavioral Health**

Cultural stress may affect family functioning, and, in turn, the health of Latino youth and parents (e.g., Gassman-Pines, 2015; Lorenzo-Blanco, Meca, Unger, Romero, Gonzales-Backen, et al., 2016). Cultural stress refers to a constellation of interrelated but distinct factors that can contribute to the stress experience among Latino immigrant families, including discrimination, a negative context of reception, and acculturative or bicultural stress (Cano, Schwartz, Castillo, Romero, et al., 2015; Lorenzo-Blanco, Meca, Unger, Romero, Gonzales-Backen, et al., 2016). Discrimination refers to experiences of unfair or differential treatment such as being teased or ostracized for being an immigrant or for having an accent when speaking English (Pérez, Fortuna, & Alegria, 2008). A negative context of reception refers to immigrants’ perception of not feeling welcomed in their U.S. settlement community, including lack of access to good employment and schools (Schwartz et al., 2014). Acculturative or bicultural stress can include pressures involved in learning a new language, maintaining one’s native language, and balancing differing cultural values and ways of behaving (Torres, Driscoll, & Voel, 2012).

According to the FSM, cultural stressors can negatively influence family functioning and, ultimately, the emotional well-being and behavioral health of Latino adolescents and parents (e.g., Conger et al., 2010). Supporting this proposition, Lorenzo-Blanco, Meca, Unger, Romero, Gonzales-Backen, et al. (2016) investigated, in a sample of recent immigrant Latino families, the developmental trajectories of parents’ cultural stress over a 2-year period. They found that early levels of and increases in parent cultural stress predicted worse adolescent-
parent-reported family functioning at a later time point, which then predicted lower youth self-esteem and increased alcohol and cigarette use 6 months later. In a related study, using the same data set, Lorenzo-Blanco, Meca, Unger, Romero, Szapocznik, et al. (2016) employed a cross-lagged model to test whether, over a 2-year period, parent cultural stress led to higher depressive symptoms in parents or whether parent depressive symptoms led parents to perceive more cultural stress. Findings indicated that parent cultural stress at earlier time points predicted parent depressive symptoms at later time points but not vice versa. They also found that parent cultural stress and parent depressive symptoms predicted lower family functioning at a later time point, which then predicted lower youth self-esteem and higher youth alcohol and cigarette use.

Although these studies have advanced our understanding of how cultural stressors develop over time to influence family functioning, parent depressive symptoms, and adolescent health outcomes, in the present study, we attempt to ascertain the separate development of adolescent- and parent-reported family functioning trajectories and the role of cultural stress in the evolution of family functioning. According to ecodevelopmental theory and the FSM, family functioning may evolve as Latino immigrant families experience cultural stress. However, studies have not tested whether, and how, family functioning changes as immigrant families navigate the U.S. cultural context. As such, studying the effects of cultural stressors on longitudinal trajectories of adolescent- and parent-reported family functioning will enhance researchers' understanding of how cultural stressors impact Latino families. Such understanding may also provide insights into the best timing of interventions to promote family functioning and prevent the negative consequences of cultural stress on family functioning. In turn, such interventions would be expected to promote the emotional and behavioral health of Latino adolescents and parents.

Additionally, prior studies on family functioning, emotional well-being, and health-risk behaviors among Latinos have relied on variable-centered approaches and ignored individual differences in how well Latino families function. However, given the heterogeneity that exists among Latino families vis-à-vis family functioning, it is important to identify subgroups of families that may differ with regard to adolescent- and parent-reported family functioning trajectories. Although some families may be characterized by high adolescent-reported and high parent-reported family functioning trajectories, others may be characterized by low adolescent- and low parent-reported family functioning trajectories. Still others may be characterized by adolescents with high and parents with low family functioning trajectories or vice versa. Identifying distinct groups of families who differ based on their family functioning trajectories may facilitate adapting interventions based on the family’s existing resources and needs.

The Present Study

The present six-wave longitudinal study with recent immigrant Latino families advances theory, research, and intervention development vis-a-vis family functioning, cultural stress, and health outcomes through the following two aims: First, informed by ecodevelopmental theory and the FSM, we examined how adolescent- and parent-reported family functioning changed over time as a function of adolescents’ and parents’ cultural stress experiences. Doing so allowed us to test one of the tenets of the FSM, which posits that cultural stress can lead to changes in family functioning. Second, given individual differences in how well families function, we also sought to identify unique subgroups of family functioning classes that differed with regard to adolescent- and parent-reported family functioning trajectories. We also investigated the influence of family functioning trajectories and unique family functioning classes on adolescent and parent emotional well-being and health-risk behaviors.

According to ecodevelopmental theory, family functioning can undergo developmental changes as adolescents and parents navigate the U.S. cultural context. As such, we first examined the longitudinal trajectories of adolescent- and parent-reported family functioning as two separate latent constructs. Next, because the FSM posits that cultural stress can compromise positive family functioning and thereby impact the health of parents and adolescents, we investigated how parent and adolescent cultural stressors impacted parent- and adolescent-reported family functioning trajectories, respectively. Third, because both ecodevelopmental theory and the FSM posit that family functioning is an important determinant of adolescent and parent health outcomes, we investigated the degree to which adolescent- and parent-reported family functioning trajectories separately predicted a range of adolescent and parent outcomes. Finally, using latent class growth analysis (LCGA), we sought to identify distinct subgroups of parents and adolescents who differed based on their family functioning...
trajectories, and we then investigated how these empirically derived family functioning subgroups influenced adolescent and parent outcomes, and differed from each other based on parent and adolescent cultural stress. Based on theory and prior research, we propose the following hypotheses and research question:

1. Consistent with ecodevelopmental theory, we expected family functioning to change over time. Specifically, and consistent with the notion that family functioning may deteriorate as Latino families navigate the U.S. cultural context, we expected family functioning for adolescents and parents to decline over time.

2. Based on the FSM and its extension into cultural stress (Lorenzo-Blanco, Meca, Unger, Romero, Gonzales-Backen, et al., 2016), we expected adolescent and parent cultural stress to predict (a) lower initial levels of positive adolescent and parent family functioning, and (b) a steeper decline in adolescent and parent family functioning over time.

3. In accordance with ecodevelopmental theory and the FSM, we expected that greater positive family functioning at baseline and over time would predict more favorable emotional well-being and behavioral health outcomes in adolescents and parents.

4. We also sought to determine whether we could empirically identify subgroups of adolescents and parents based on their family functioning trajectories (in terms of both baseline levels and change over time). Given the lack of longitudinal research in this area, we did not have an empirical basis on which to hypothesize the specific number of groups that would emerge or on how these groups would change over time. However, as evident in prior research, we expected to find groups of adolescents and parents who would fall into “high” and a “low” functioning groups, and we expected that adolescents and parents in groups characterized by “low” family functioning would report higher levels of cultural stress, worse emotional well-being, and worse behavioral health compared to parents and adolescents in high family functioning groups.

Method

Sample

Data for the present study came from a six-wave longitudinal study on cultural stress, family functioning, and health among recently immigrated Latino families (Schwartz et al., 2014). The sample consisted of 302 adolescent–caregiver dyads from Los Angeles (N = 150) and Miami (N = 152) who had resided in the United States for 5 years or less at baseline. Forty-seven percent of the adolescent sample was female (Mage = 14.51, SD = 0.88). Each adolescent participated with a primary caregiver, to whom we refer as “parents” in the present study. Parents included mothers (74.0%), fathers (22.1%), stepparents (2.1%), and grandparents or other relatives (1.7%). The mean parent age was 41.09 years (SD = 7.09) at baseline. Approximately 80% of parents reported annual incomes of < $25,000, and 78.6% had graduated from high school. Miami families were primarily from Cuba (61%), the Dominican Republic (8%), Nicaragua (7%), Honduras (6%), and Colombia (6%). Los Angeles families were primarily from Mexico (70%), El Salvador (9%), and Guatemala (6%). The majority of adolescents (98%) and parents (98%) reported Spanish as their “first or usual language”; 82% of adolescents and 87% parents reported “speaking mostly Spanish at home” and 16% of the adolescents and 11% of parents reported speaking “English and Spanish about the same at home.”

Procedures

School Selection and Participant Recruitment

Families were recruited from randomly selected schools in Miami-Dade (10 schools) and Los Angeles counties (13 schools). To capture the greatest possible representation of recent Latino immigrant families from these two counties, we selected schools whose student body was at least 75% Latino. The study was approved by the Institutional Review Boards at the University of Miami and the University of Southern California, and by the Research Review Committees for each participating school district.

Assessments

Baseline (T1) data were gathered during the summer of 2010, and subsequent time points occurred during Spring 2011 (T2), Fall 2011 (T3), Spring 2012 (T4), Fall 2012 (T5), and Spring 2013 (T6). Participants completed assessments at the universities’ research centers, schools, community locations, or their homes. Assessments were available in Spanish and English, and each parent and adolescent was asked to select the language in which she or he wanted to complete the assessment.
Participants completed assessments with an audio computer-assisted interviewing system (Turner et al., 1998). Parents provided informed consent for themselves and their adolescents. Adolescents provided informed assent for themselves. Parents received $40 at baseline and an additional $5 at each subsequent time point. Adolescents received a voucher for a movie ticket at each time point.

Measures

We translated all of our measures from English into Spanish, and we used a simultaneous translation process because our participants spoke different Spanish dialects (i.e., Cuban Spanish in Miami and Mexican Spanish in Los Angeles). Two translators in Miami and two translators in Los Angeles forward and back-translated all the measures from English into Spanish. The Miami research team then reviewed the translations from the Los Angeles research team, and the Los Angeles team reviewed the translations from the Miami team. Any discrepancies in translations were resolved through phone conferences. In instances where the research team could not find a resolution for translation discrepancies, we used both the “Miami” and “Los Angeles” expressions in the item content that was displayed to participants.

Unless otherwise specified, we used a 5-point Likert-type scale for all measures, ranging from 1 (strongly disagree) to 5 (strongly agree).

Adolescent and Parent Family Functioning

Adolescent and parent family functioning was assessed at each of the first five time points using parent–adolescent (i.e., parental involvement and positive parenting) and whole-family relational processes (i.e., family cohesion). Parental involvement and positive parenting were assessed using the Parenting Practices Scale (Gorman-Smith, Tolan, Zelli, & Huesmann, 1996). The parental involvement subscale consisted of 15 items for adolescents ($\alpha = .87$; sample item: “When was the last time that you talked with your parents about what you were going to do for the coming day?”) and 19 items for parents ($\alpha = .79$; sample item: “How many of your child’s friends do you know?”). The positive parenting subscale consisted of nine items for adolescents ($\alpha = .87$; sample item: “When you have done something that your parents approve of, how often do they say something nice about it?”) and nine for parents ($\alpha = .70$; sample item: “When your child has done something that you like or approve of, do you mention it to someone else?”). Family cohesion was measured using the corresponding six-item subscale from the Family Relations Scale (Turner et al., 1997). Sample items include “Family members feel very close to each other” ($\alpha = .87$ for adolescents and .76 for parents).

Adolescent and Parent Cultural Stress

Adolescent and parent cultural stress was assessed at T1 and treated as two separate latent variables—one for adolescents (see Cano, Schwartz, Castillo, Romero, et al., 2015) and one for parents (see Lorenzo-Blanco, Meca, Unger, Romero, Gonzales-Backen, et al., 2016; Lorenzo-Blanco, Meca, Unger, Romero, Szapocznik, et al., 2016). For parents, cultural stress was measured in terms of discrimination, negative context of reception, and acculturative stress. For adolescents, cultural stress was measured in terms of discrimination, a negative context of reception, and bicultural stress. For parents and adolescents, perceived discrimination was measured using the seven-item Perceived Discrimination Scale (Phinney, Madden, & Santos, 1998; $\alpha = .87$; sample item: “How often do people your age treat you unfairly or negatively because of your ethnic background?”). This measure uses a 5-point Likert response format ranging from 0 (not at all) to 4 (almost always). Negative context of reception (Schwartz et al., 2014) was measured among adolescents and parents using a six-item scale developed using the present data set ($\alpha = .83$; sample item: “I don’t have the same chances in life as people from other countries”). Parents and adolescents indicated the degree to which they agreed with each statement on a scale ranging from 0 (not at all) to 4 (strongly agree). Acculturative stress among parents was measured with 24 items from the Multidimensional Acculturative Stress Inventory, which assess stress that originates from U.S. (sample item: “It bothers me that I speak English with an accent”) and Latino sources (sample item: “I feel pressure to speak Spanish”); Rodriguez, Myers, Mira, Flores, & Garcia-Hernandez, 2002). Parents indicated on a Likert scale, ranging from 0 (not at all stressful) to 4 (extremely stressful), the degree to which they each item applied to them ($\alpha = .93$). Bicultural stress among adolescents was measured using 20 items from the Bicultural Stress Scale (Romero & Roberts, 2003; $\alpha = .89$; sample item: “I feel embarrassed because of my accent”). Adolescents rated on a scale ranging from 1 (never happened to me) to 4 (very stressful) the degree to which each statement applied to them.
Adolescent and parent depressive symptoms. Adolescent and parent depressive symptoms were assessed at T1 and T6 using the Center for Epidemiologic Studies Depression Scale (CES-D; Radloff, 1977); $\alpha = .93$ for parents and $\alpha = .93$ for adolescents, sample item: “I felt like crying this week.” Adolescents and parents indicated on a scale ranging from 0 (strongly disagree) to 4 (strongly agree), how depressed they have felt during the past week. Higher scores indicate greater depressive symptoms. The CES-D has been translated into Spanish and used frequently with Latinos (e.g., Todorova, Falcón, Lincoln, & Price, 2010).

Adolescent self-esteem. Adolescent self-esteem was assessed at T1 and T6 with 10 items ($\alpha = .74$; sample item: “I feel that I have a number of good qualities”) from the Rosenberg (1965) Self-Esteem Scale. This measure has been used widely with Spanish-speaking populations (Schmitt & Allik, 2005).

Adolescent hope. Adolescent hope was measured at T1 and T6 with the Children’s Hope Scale (Edwards, Ong, & Lopez, 2007). This measure consists of six items and measures the extent to which young people are optimistic about their future ($\alpha = .86$; sample item: “I can think of many ways to get the things in life that are most important to me”).

Adolescent aggressive and rule-breaking behavior. Adolescent aggressive and rule-breaking behavior was assessed at T1 and T6 with 32 items from the youth self-report (Achenbach & Rescorla, 2002). We used 17 items to measure aggressive behavior ($\alpha = .93$, sample item: “I am mean to others”) and 15 items to measure rule-breaking behavior ($\alpha = .93$, sample item: “I break rules at home, school, or elsewhere”). Adolescents rated, on a scale ranging from 0 (not true) to 4 (often or very often true), their behavior within the previous 6 months.

Adolescent and parent substance use. Adolescent substance use was assessed in terms of cigarette smoking, binge drinking, and marijuana use with a modified version of the Monitoring the Future survey (Johnston et al., 2015). Parent substance use was assessed with the same items and assessed cigarette smoking, alcohol, and drug use. Adolescents and parents responded to questions regarding the frequency of their substance use in the 90 days prior to assessment. Because of low base rates, we dichotomized the responses to create binary variables ($1 = use$ vs. $0 = nonuse$) at T1 and T6.

Adolescent sexual risk taking. Adolescent sexual risk taking was assessed with four questions. One question asked adolescents about how many times in the last 90 days they had engaged in vaginal or anal sex (Question 1). Because many young people engage in oral sex without intercourse (Lindberg, Jones, & Santelli, 2008), we asked separately about oral sex (Question 2). We also asked participants about how often they used a condom during vaginal or anal sex (Question 3) and oral sex (Question 4) during the past 90 days. Response options ranged from 0 (never) to 4 (always). Because of low base rates, we dichotomized the responses to create binary variables at T1 and T6 as follows: Question 1: $1 = had sex versus 0 = did not have vaginal or anal sex$; Question 2: $1 = did have oral sex versus 0 = did not have oral sex$; Question 3: $1 = did not use condom during vaginal or anal sex versus 0 = used condom during vaginal or anal sex$; Question 4: $1 = did not use condom during oral sex versus 0 = used condom during oral sex$. Additionally, adolescents who reported that they did not have vaginal or anal sex in response to Question 1 were coded as 0 for Questions 2–4.

Analytic Overview

Analyses were conducted in Mplus version 7.2 (Muthen & Muthen, 1998–2012) using maximum likelihood with robust standard errors (MLR), which is robust to non-normality and nonindependence of observations when used with nested data (Kauermann & Carroll, 2001). Analyses proceeded in eight steps: (a) examining the longitudinal invariance of two latent family functioning variables—one for parents and one for adolescents (Little, 2013), (b) estimating two growth curve models for family functioning—one for parents and one for adolescents, (c) investigating the degree to which parent and adolescent cultural stress at T1 predicted adolescent and parent family functioning trajectories and examining the effect of parent and adolescent family functioning trajectories on parent and adolescent outcomes at T6, (d) explored site differences in the predictive effects of parent and adolescent cultural stress at T1 on parent and adolescent reports of family functioning and outcomes, (e) estimating a LCGA to determine the number and characteristics of empirically distinguishable family functioning trajectory classes (based on parent- and adolescent-reported intercepts and slopes; Nagin, 2005), (f) predicting family functioning class membership as a function of demographic variables and cultural stress, (g) predicting parent and adolescent outcomes as a function of family functioning class membership, and (h) examining site differences in
the predictive effects of parent and adolescent outcomes as a function of family functioning class membership.

Results

Step 1: Longitudinal Invariance of Parent- and Adolescent-Reported Family Functioning

One prerequisite for latent growth curve modeling (LGCM) is structural invariance of the same latent construct at each time point (Little, 2013). As such, we evaluated separately whether the structures of the parent- and adolescent-reported family functioning latent variables were invariant across the first five time points by comparing the fit of the following three models, separately for parents and adolescents: (a) an unconstrained model with all factor loadings and item intercepts free to vary across time points, (b) a metric invariance model with factor loadings (but not item intercepts) constrained equal across time points, and (c) a scalar invariance model with factor loadings and item intercepts constrained equal across time points (Dimitrov, 2010). Model fit was evaluated using three fit indices: the chi-square index ($\chi^2$), the comparative fit index (CFI), and the root mean square error of approximation (RMSEA; West, Taylor, & Wu, 2012). Adequate model fit was defined as CFI $\geq 0.90$ and RMSEA $\leq 0.08$. We report the chi-square index but did not use it to evaluate model because it tends to be overpowered (West et al., 2012).

As recommended by Little (2013), we conducted tests of metric invariance by comparing Models 1 and 2, and we conducted tests of scalar invariance by comparing Models 2 and 3. For the assumption of longitudinal invariance to be satisfied, both model comparisons need to yield a conclusion of invariance. Such a conclusion would be supported if at least two of three criteria were satisfied: $\Delta \chi^2$ not significant ($p > .05$), $\Delta$CFI $< 0.01$, and $\Delta$RMSEA $< 0.01$ (Widaman, Ferrer, & Conger, 2010). Additionally, according to Little (2013), it is acceptable to use variables for which partial metric or scalar invariance is retained. Partial metric and scalar invariance would be supported if the majority of loadings or intercepts were invariant across time points.

Model 1 (the unconstrained model) for parent-reported family functioning yielded good fit, $\chi^2(60) = 106.015$, $p < .001$; CFI = 0.972; RMSEA = 0.050. Both metric, $\Delta \chi^2(8) = 5.60$, $p = .69$; $\Delta$CFI = 0.002; $\Delta$RMSEA = 0.004, and scalar invariance, $\Delta \chi^2(20) = 36.29$, $p < .05$; $\Delta$CFI = 0.009; $\Delta$RMSEA = 0.001, were supported, suggesting that the structure of the parent-reported family functioning variable was equivalent over time. Model 1 (the unconstrained model) for adolescent-reported family functioning also yielded good fit, $\chi^2(60) = 79.576$, $p < .05$; CFI = 0.990; RMSEA = 0.033. Although metric, $\Delta \chi^2(8) = 11.02$, $p = .20$; $\Delta$CFI = 0.001; $\Delta$RMSEA $< 0.001$, invariance was supported, scalar invariance, $\Delta \chi^2(12) = 337.85$, $p < .05$; $\Delta$CFI = 0.015; $\Delta$RMSEA = 0.013, was not. However, freeing the intercept for the parental involvement variable permitted us to retain the assumption of partial scalar invariance, $\Delta \chi^2(16) = 25.74$, $p = .06$; $\Delta$CFI = 0.005; $\Delta$RMSEA = 0.002. Because at least partial invariance was established for parent- and adolescent-reported family functioning, we were able to estimate growth curves (Little, 2013).

Step 2: Estimation of LGCM

We evaluated trajectories of parent- and adolescent-reported family functioning using LGCM (see top part of Figure 1). Because estimating the effect of a latent construct on dichotomous outcomes requires 15 dimensions of mathematical integration per outcome, we saved the factor scores for the latent parent- and adolescent-reported family functioning variables from the longitudinal invariance models back into the data set and used these factor scores as indicators in LGCM. The LGCM fit the data well, $\chi^2(36) = 53.455$, $p < .05$; CFI = 0.992; RMSEA = 0.040 (90% CI [0.013, 0.062]). Although the mean linear slopes for parent- and adolescent-reported family functioning were not significant (parent $x_{slope} = .03$, $p = .26$; adolescent $x_{slope} = .08$, $p = .13$), there was significant variability around the mean slopes ($s^2 = 0.09$, $p < .001$ for parents; $s^2 = 0.78$, $p < .001$ for adolescents), indicating that parent- and adolescent-reported family functioning may vary across individuals. There was also significant variability around the intercepts ($s^2 = 3.77$, $p < .001$ for parents; $s^2 = 16.21$, $p < .001$ for adolescents), documenting individual differences in baseline levels of parent- and adolescent-reported family functioning.

Step 3: Cultural Stress as Predictor of Family Functioning and Family Functioning as Predictor of Parent and Adolescent Outcomes

Next, as shown in Figure 1 (bottom part), we allowed parent and adolescent cultural stress to predict the slopes and intercepts of both parent-
and adolescent-reported family functioning. We also allowed the intercepts and slopes for parent- and adolescent-reported family functioning to predict adolescent and parent outcomes. We controlled for age, gender, site (Miami vs. Los Angeles), and years in the United States, along with baseline levels of the continuous outcome variables. We did not control for prior levels of categorical outcome variables because scores on dichotomous variables can remain the same over time even though developmental change has occurred (Agresti, 2007). Additionally, controlling for prior levels of categorical variables may, in some cases, result in inflated standard errors for model parameters, potentially rendering baseline-adjusted results unstable or invalid (Glymour, Weuve, Berkman, Kawachi, & Robins, 2005). Also, because modeling categorical outcomes in MLR requires numerical integration, Mplus does not provide model fit indices for these analyses (Muthén & Muthén, 2010).

As shown in Table 1 and Figure 2, adolescent cultural stress predicted lower parent-\((β = −.16, p < .05)\) and adolescent-reported \((β = −.12, p < .05)\) family functioning intercepts, and parent cultural stress marginally and negatively predicted the adolescent-reported family functioning slope \((β = −.11, p = .097)\). Moreover, the intercept (i.e., Time 1) for parent-reported (higher) family functioning predicted less youth rule breaking \((β = −.10, p = .067)\), cigarette smoking \((OR = 0.64, p < .001)\), alcohol use \((OR = 0.73, p < .05)\), binge drinking \((OR = 0.79, p < .05)\), and marijuana use \((OR = 0.74, p = .07)\), and lower parent depressive symptoms \((β = −.13, p < .05)\) at T6. The slope for parent-reported (higher) family functioning predicted lower unprotected youth oral sex \((OR = 0.11, p < .05)\), lower parent depressive symptoms \((β = −.12, p < .05)\), and marginally more parent drug use \((OR = 2.77, p = .08)\). Additionally, the intercept for adolescent-reported (higher) family functioning predicted higher youth self-esteem \((β = .12, p = .09)\), higher hope \((β = .22, p < .05)\), lower rule breaking \((β = −.10, p = .09)\), lower aggressive behavior \((β = −.11, p = .06)\), lower youth depressive symptoms \((β = −.16, p < .05)\), and lower parent drug use \((OR = 0.76, p = .067)\) at T6. Furthermore, the slope of adolescent-reported (higher) family functioning predicted higher youth hope \((β = .32, p < .001)\), less rule breaking \((β = −.13, p < .05)\), lower odds of cigarette smoking \((OR = 0.52, p < .05)\), lower odds of marijuana use \((OR = 0.28, p < .001)\), and lower odds of binge drinking \((OR = 0.50, p < .05)\) at T6. Finally, the adolescent-reported family functioning slope predicted lower parent drug use \((OR = 0.67, p < .05)\) at T6.
Step 4: Model Invariance Across Sites

Next, we examined whether the findings from Step 3 differed across site (Miami vs. Los Angeles). We compared an unconstrained model (will all paths free to vary across sites) to a constrained model (with each path constrained to be equal across site) using the likelihood ratio test (LRT) to evaluate the null hypothesis of equivalent findings across sites. This test provides only a chi-square difference and does not provide any other structural equation modeling fit indices. Our results indicated no significant difference across site; $\Delta \chi^2(66) = 81.01$, $p = .101$, suggesting that findings from Step 3 do not vary for families in Miami versus Los Angeles.

Step 5: LCGA

Next, using LCGA, we identified subgroups of parents and adolescents who differed based on their family functioning intercepts and slopes (Nagin, 2005). Following Nagin (2005), we fixed the intercept and slope variances to zero so that the classes extracted would be as homogenous as possible in terms of their starting points and change trajectories. We used five criteria to decide on the number of classes (Nylund, Asparouhov, & Muthén, 2007). First, the Vuong–Lo–Mendell–Rubin LRT indicates the extent to which the $-2 \log$ likelihood value for a model with $k$ classes is significantly smaller than the corresponding value for a model with $k - 1$ classes. Second, the sample-size-adjusted Akaike’s information criterion and Bayesian information criterion provide an additional basis for comparing models, where lower values indicate better fit. Third, to ensure stability of the class solution, each class had to represent more than 5% of the sample. Fourth, classes had to be substantively different from one another (i.e., one class could not simply be a variant on another class). Fifth, entropy values and posterior probabilities of correct classification should be at least .70, and when entropy is lower than .70, posterior class membership probabilities should be used as weighting variables (Bandeen-Roche, Miglioretti, Zeger, & Rathouz, 1997).

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Predictor</th>
<th>Parent-reported</th>
<th>Adolescent-reported</th>
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<tbody>
<tr>
<td></td>
<td>Cultural stress</td>
<td>Family functioning intercept</td>
<td>Family functioning slope</td>
</tr>
<tr>
<td>Family functioning intercept (P)</td>
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<td>$-0.16^*$</td>
<td>$-0.16^*$</td>
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<tr>
<td>Family functioning slope (P)</td>
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<td>Family functioning slope (A)</td>
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<td>$0.06$</td>
<td>$0.06$</td>
</tr>
<tr>
<td>Self-esteem (A)</td>
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<td>$0.04$</td>
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<tr>
<td>Hope (A)</td>
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<td>$0.22^*$</td>
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<td>Rule breaking (A)</td>
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</tr>
<tr>
<td>Aggressive behavior (A)</td>
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<td>$-0.11^*$</td>
<td>$-0.11^*$</td>
</tr>
<tr>
<td>Depressive symptoms (A)</td>
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<td>$-0.16^*$</td>
<td>$-0.16^*$</td>
</tr>
<tr>
<td>Cigarette smoking (A)</td>
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<td>$5.84$</td>
</tr>
<tr>
<td>Binge drinking (A)</td>
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<td>$1.34$</td>
</tr>
<tr>
<td>Marijuana use (A)</td>
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<td>$0.83$</td>
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<td>$0.97$</td>
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<td>$1.09$</td>
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<td>$1.00$</td>
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<td>Drug use (P)</td>
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<td>$2.77^{**}$</td>
<td>$2.77^{**}$</td>
</tr>
</tbody>
</table>

$p = .05–.09$. *$p < .05$. **$p < .001$. 

### Table 1

Cultural Stress Predicting Family Functioning Intercepts and Slopes and Family Functioning Intercepts and Slopes Predicting Parent and Adolescent Outcomes
Based on these criteria, we extracted a two-class solution, LRT = 578.032, p < .05 (see Figure 3) using adolescent- and parent-reported family functioning slopes and intercepts. The entropy value was .85, and posterior probabilities ranged from .94 to .97. The first class represented 51.33% of the sample (n = 155), and the second class represented 48.68% of the sample (n = 147). For Class 1, the parent-reported family functioning intercept and linear slope were 0.71 (p < .001) and 0.05 (p = .09), respectively, and the adolescent-reported family functioning intercept and linear slope were 2.77 (p < .001) and 0.18 (p < .01), respectively. For Class 2, the parent-reported family functioning intercept and slope were −0.92 (p < .05) and 0.02 (p = .62), respectively, and for adolescent-reported family functioning, the Class 2 intercept and linear slope were −3.33 (p < .001) and −0.03 (p = .79), respectively. For

| Class 1 = High Family Functioning (i.e., high adolescent and parent family functioning) |
| Class 2 = Low Family Functioning (i.e., low adolescent and parent family functioning) |

**Figure 2.** Parent and adolescent cultural stress predicting parent- and adolescent-reported family functioning intercepts and slopes and parent- and adolescent-reported family functioning intercepts and slopes predicting parent and adolescent outcomes. Significant and marginally significant results are shown.

**Figure 3.** Latent trajectory class solution for adolescent- and parent-reported family functioning.
parents and adolescents, the intercepts were significantly different from zero in both classes. The slope was significant for adolescents in Class 1 (\(p < .01\)) and nonsignificant in Class 2 (\(p = .79\)). Similarly, for parents, the slope was marginally significant (\(p = .09\)) in Class 1 and nonsignificant (\(p = .62\)) in Class 2. This pattern of results suggests that Classes 1 and 2 differed in both their intercepts and slopes. As shown in Figure 3, Class 1 was characterized by high parent- and adolescent-reported family functioning and Class 2 by low adolescent- and parent-reported family functioning. As such, we named Class 1 “high family functioning” and Class 2 “low family functioning.” For all subsequent analyses, we used the high family functioning class as our reference group because we expected this class to score lowest on negative youth and parent outcomes.

**Step 6: Demographic Variables and Cultural Stress as Predictors of Class Membership**

Next, we examined whether class membership differed based on youth age, gender, site, years spent in the United States, and parent and adolescent cultural stress. As indicated in Table 2, class membership significantly differed by gender and years in the United States. Specifically, relative to the high family functioning class (52% girls and 48% boys), the low family functioning class contained fewer girls (41%) than boys (59%; \(OR = .66, p < .05\)) and had spent more time in the United States (\(M_{\text{high family functioning}} = 1.79, SD = 1.53\) and \(M_{\text{low family functioning}} = 2.37, SD = 2.14; OR = 1.14, p < .05\)). Additionally, the low family functioning class was characterized by higher adolescent cultural stress (\(M = 0.33, SD = 3.01\)) compared to the high family functioning class (\(M = 0.31, SD = 3.37\)), but this difference was only marginally significant (\(OR = 1.05, p = .07\)).

**Step 7: Class Membership as Predictor of Parent and Adolescent Outcomes**

Next, we predicted T6 parent and adolescent outcomes using class membership, controlling for youth age, gender, site, years in the United States, and prior levels of continuous outcome variables. As shown in Table 2, as expected, the low family functioning class, compared to the high family functioning class reported: (a) lower youth self-esteem (\(\beta = -.14, p = .06\)), (b) lower hope (\(\beta = -.21, p < .001\)), (c) higher youth rule breaking (\(\beta = .12, p < .05\)), (d) higher aggressive behavior (\(\beta = .11, p < .05\)), (e) higher levels of youth depressive symptoms (\(\beta = .22, p < .05\)), (f) greater odds of youth binge drinking (\(OR = 3.84, p < .05\)), (g) greater odds of youth marijuana use (\(OR = 4.56, p < .05\)), (h) greater odds of unprotected vaginal sex (\(OR = 1.83, p < .05\)), and (i) higher levels of parent depressive symptoms (\(\beta = .16, p < .05\)).

**Step 8: Invariance by Site: Class Membership as Predictor**

Finally, we sought to explore differences across site in terms of the effect of class membership on parent and adolescent outcomes at T6. Results
indicated no significant differences across site; Δχ^2(16) = 12.22; p = .729, suggesting that class membership has the same effect on outcomes for parents and adolescents in Miami and LA.

Discussion

Informed by ecodevelopmental theory (Szapocznik & Coatsworth, 1999) and the FSM (Conger et al., 2010), in this study we examined separate longitudinal trajectories of parent- and adolescent-reported family functioning and the effects of these separate family functioning trajectories on adolescent and parent emotional well-being and health-risk behaviors. We also investigated the role of parent and adolescent cultural stress in predicting family functioning trajectories and examined whether family functioning trajectories, in turn, predicted adolescent and parent emotional well-being and health-risk behaviors. Given heterogeneity among Latino families and family functioning, we identified distinct subgroups of parents and adolescents who differed from each other based on their family functioning trajectories (i.e., slopes and intercepts). We also investigated the effects of these empirical family functioning trajectory subgroups on adolescent and parent emotional well-being and health-risk behaviors. Finally, we examined how family functioning subgroups differed by parent and adolescent cultural stress. We now discuss in more detail the key findings and their implications.

We first evaluated the overtime latent structure of two family functioning reports (one separate construct for parents and one for adolescents) to investigate whether the meaning of the latent family functioning structure changed significantly over time. We observed that the structures of these two constructs were consistent over time, suggesting that family functioning, in the form of family cohesion, positive parenting, and parental involvement, carries the same meaning over time and that this meaning does not change as families navigate the U.S. cultural context.

After establishing the temporal stability of the family functioning constructs, we investigated whether the quality of parent- and adolescent-reported family functioning increased or decreased over time. Informed by ecodevelopmental theory and scholarship indicating that positive family functioning may erode as Latino families settle into their U.S. receiving contexts, we hypothesized that adolescent- and parent-reported family functioning would decline over time. Contrary to expectations, our findings indicated that on average, the quality of parent- and adolescent-reported family functioning did not change. However, variability around the slope for parent- and adolescent-reported family functioning suggests that, for some parents and adolescents, family functioning decreased over time, whereas for others it may have increased, and for still others it may have remained the same. These findings suggest heterogeneity in the development of family functioning. We also observed variability in initial levels of parent- and adolescent-reported family functioning, further pointing to differences across families in adolescent- and parent-reported family functioning during the early years following immigration.

Next, informed by the FSM, we investigated (a) the influence of parent and adolescent cultural stressors (i.e., discrimination, a negative context of reception, and acculturative or bicultural stress) on family functioning and (b) the effect of parent- and adolescent-reported family functioning on adolescent and parent outcomes. Partially supporting our hypothesis that cultural stress would predict lower initial levels of family functioning, adolescent (but not parent) cultural stress predicted worse adolescent- and parent-reported family functioning at baseline (i.e., the intercept). These findings suggest that, although parents’ cultural stress did not predict family functioning, adolescent cultural stress negatively impacted the initial quality of parent- and adolescent-reported family functioning. It is possible that, compared to adolescents, parents have learned to access available resources and assets to actively manage cultural stressors so that these experiences may not negatively affect the well-being of their families. Alternatively, it may be that, compared to their parents, adolescents are more sensitive to cultural stressors such as discrimination, acculturative or bicultural stress, and a negative context of reception because they have had less experience learning how to actively manage stress and because adolescence can be a challenging developmental period, possibly making adolescents more vulnerable to any additional stressors they and their families experience (Coleman, 2011; Falicov, 2013). Alternatively, it may be that adolescents are more exposed to the receiving culture than parents—especially in highly ethnically dense communities (Falicov, 2013). It is also possible that the transition to living in the United States is more difficult for adolescents, for whom immigration often occurs involuntarily (Falicov, 2013). The involuntariness of immigration may render adolescents
more sensitive and reactive to cultural stressors, thereby impacting family functioning (e.g., Suárez-Orozco, Suárez-Orozco, & Todorova, 2008). Our findings point to the need to employ a developmental lens in research on cultural stress, family functioning, and health, and to investigate the reasons for why adolescent cultural stress appears to impact family functioning more strongly than parent cultural stress does. Such information could help inform the development of interventions to reduce the impact of adolescent cultural stress on family functioning.

Surprisingly, earlier levels of cultural stress did not result in a decline in parent- and adolescent-reported family functioning over time. Instead, cultural stress appeared to have a negative influence on the quality of family functioning early on, after which family functioning remained stable over time. The fact that adolescent- and parent-reported family functioning did not decline for recent immigrant families suggests that families possess strengths and assets that help them successfully navigate cultural stressors. Additionally, these results generally indicate that interventions to foster positive family functioning may be most needed and effective during the early years following immigration, when adolescent cultural stress had the greatest negative impact on parent- and adolescent-reported family functioning. Our findings also indicate that interventions to foster positive family functioning could benefit from identifying resources and assets that recent immigrant families possess and build on these strengths to promote the well-being of adolescents and parents. Moreover, these findings suggest that interventions could benefit from actively addressing adolescents’ cultural stress experiences (Falicov, 2013). Prior research has observed that, for recent immigrant Latino adolescents (Schwartz et al., 2015) and parents (Lorenzo-Blanco, Meca, Unger, Romero, Gonzales-Backen, et al., 2016), cultural stress was highest during the early years of immigration and decreased over time, further supporting the need to make interventions available early on in the settlement process, before adolescent cultural stress impacts the functioning of the family.

Consistent with ecodevelopmental theory and the FSM, we hypothesized that greater positive family functioning at baseline and over time would predict more favorable adolescent and parent outcomes. As expected, we observed that initial levels of positive adolescent-reported family functioning predicted higher levels of adolescent hope and lower levels of adolescent depressive symptoms, whereas initial levels of positive parent-reported family functioning predicted lower odds of adolescent cigarette smoking and binge drinking, lower parent depressive symptoms, and lower odds of parent alcohol use. These findings further suggest that adolescents and parents might benefit from preventive interventions that foster family functioning during the early years following immigration. Moreover, and as expected, positive adolescent-reported family functioning trajectories predicted higher adolescent hope; lower rule breaking; lower odds of cigarette smoking, binge drinking, and marijuana use; and lower odds of parent drug use; whereas parent-reported family functioning trajectories predicted lower odds of unprotected oral sex and lower parent depressive symptoms. These findings suggest that, although families might benefit from intervention efforts during the early years following immigration, interventions may also be beneficial later on. Additionally, our findings indicate that interventions efforts should involve both parents and adolescents because adolescent-reported family functioning influenced some outcomes, whereas parent-reported family functioning predicted other outcomes.

Next, we used LCGA to identify empirically derived constellations of parent- and adolescent-reported family functioning trajectories. Specifically, we identified two family functioning classes: a “high family functioning” and a “low family functioning” class. Adolescents and parents in the “high family functioning” class both scored higher on family functioning across time points compared to the “low family functioning” class. Moreover, family functioning scores for adolescents (but not parents) in the “high family functioning” class appeared to increase over time, whereas the family functioning scores for both adolescents and parents in their respective “low family functioning” class remained stable over time. These results indicate that adolescents who report high levels of positive family functioning within the first 5 years of arriving in the United States will likely continue to experience increases in positive family functioning, whereas adolescents who report low initial levels of family functioning may likely continue to experience low levels of family functioning over time. This pattern may place youth in the “low family functioning” class at elevated risk for emotional and behavioral health problems compared to adolescents in the “high family functioning” class.

Contrary to expectations, family functioning remained stable and did not decline over time.
Instead, there appeared to be families who experienced low family functioning early on in the settlement process and for whom family functioning remained low. It is possible that these families experienced significant stressors prior to or during the immigration process and that these stressors resulted in low family functioning before families arrived in the United States (Falicov, 2013). Alternatively, it is possible that these families arrived in the United States with high positive family functioning but that family functioning deteriorated early on and families lacked the resources to recover. We did not ask families about their experiences prior or during the immigration process, and future research could benefit from asking families about their stress experience prior to arriving in the United States (Falicov, 2013). This information would provide further insights into the development of family functioning and the reasons why family functioning is low for some families and not others, providing valuable information about ways to best promote family functioning among recent immigrant families.

As a next step, we investigated how family functioning classes differed in terms of parent and adolescent outcomes. Importantly and as expected, compared to the “high” family functioning class, adolescents and parents in the “low” family functioning class were characterized by higher reports of adolescent (but not parent) cultural stress, further providing support for our variable-centered finding that cultural stress experienced by adolescents may more negatively affect family functioning than might cultural stress experienced by parents. Thus, intervention efforts aimed at improving family functioning for adolescents and parents could benefit from (a) reducing sources of cultural stress for adolescents, (b) helping adolescents develop cultural stress management strategies, or (c) providing parents with the tools to help their adolescents better manage cultural stress. Additionally, schools could offer school-based stress and coping interventions to their recent immigrant Latino students to equip students with effective coping skills to successfully manage cultural stress (Hampel, Meier, & Kummel, 2008).

Finally, we investigated whether differences would emerge between the two family functioning classes in terms of parent and adolescent outcomes, and we observed some significant differences. Specifically, compared to the “high” family functioning group, the “low” family functioning group scored higher on parent depressive symptoms and youth rule breaking, aggressive behavior, depressive symptoms, binge drinking, marijuana use, and unprotected oral sex. Additionally, the “low” family functioning group scored lower on youth optimism compared to the “high” family functioning class, providing further evidence that positive family functioning may indeed promote positive emotional and behavioral health for adolescents and parents. Importantly, these findings corroborate our variable-centered finding that intervention efforts might be most needed during the early years following immigration and might be especially beneficial for families in which adolescents and parents report low family functioning. Moreover, these findings provide additional support that interventions could benefit from fostering family functioning for youth and parents and address adolescent cultural stress.

**Limitations**

Our findings should be interpreted in light of some important limitations. First, our results may not generalize to all Latino families in the United States. Data were collected in relatively well-established Latino receiving communities with ethnic enclaves that may buffer against cultural stress experiences. As such, our results may not generalize to families who move into new settlement communities (e.g., Deep South, Pacific Northwest) that have less experience interacting with newcomers and where sources of support might not be available (Rodríguez, 2012). Second, we did not measure stressors that might have impacted family functioning prior to families arriving in the United States, and as such, our findings may not fully represent the stressors experienced by recent immigrant families (Falicov, 2013). Additionally, the majority of adolescents in the present study arrived in the United States with their primary caregivers (Schwartz et al., 2014). The results of this study may not generalize to adolescents and parents who come to the United States by themselves (Falicov, 2013). Fourth, although, we included adolescent and parent reports of cultural stress, family functioning, and health, not all of the adolescent variables matched the parent variables exactly (e.g., bicultural stress was measured among youth, whereas acculturative stress was measured among parents). Future studies should aim at replicating our results using the same variables for adolescents and their parents. Finally, although we included well-established measures of family functioning, adolescents and parents reported on their perceived family functioning, and future studies may benefit from objective reports of family functioning.
Despite these and other limitations, the present study contributes to our understanding of how family functioning evolves over time to affect the health of recent immigrant adolescents and their parents. Our findings also inform the family and cultural stress literatures by adopting a developmental lens and demonstrating that adolescent cultural stress may impact family functioning more strongly than parent cultural stress does. Importantly, this study indicates that preventive interventions may be most beneficial in the early years following immigration and could benefit from fostering positive family functioning and helping adolescents manage cultural stressors by drawing from the strengths and assets Latino immigrant families already possess. Intervention efforts could specifically target families with poor family functioning in the early years following immigration, but all families could benefit from these efforts. Equally important are systematic strategies that combat discrimination against Latino families and improve contexts of reception. All of these efforts would result in improved emotional well-being and behavioral health for adolescents and their parents.

References


Longitudinal results from an experimental study. *Journal of Youth and Adolescence*, 37, 1009–1024. https://doi.org/10.1007/s10964-007-9204-4


