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Peers over Parents? The Role of Racial Socialization on Ethnic-Racial Identity Development

By

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Abstract

The principal question of this study is the following: does peer-level ethnic-racial socialization have the same effect as from parents on Black adolescents ERI development? By effect, we mean whether ethnic-racial socialization can mitigate the adverse effects of discrimination and boost identity development? Linear growth modeling was used to estimate the changes of ethnic-racial identity across time. To detect how various sources of ethnic-racial socialization may mitigate discrimination and boost the ethnic-racial identity development of Black adolescents, our study incorporated moderation analyses between socialization and discrimination. The results indicated that discrimination is associated with increased ethnic-racial identity development and that some forms of ethnic-racial socialization mitigate the effects of discrimination. Both peers and parents were able to mitigate discrimination through preparation

for bias and boost ethnic-racial identity development. Thus, both peers and parents adequately

socialize Black adolescents and prepare them for instances of discrimination.

Keywords: Racial Identity, Socialization, Discrimination, Black, Peers, Parents

Peers over Parents? Peer and Parental Racial Socialization on Ethnic-Racial Identity Development

Over the past decade, the U.S. population has become increasingly diverse regarding ethnicity-race, making it critical for researchers to invest effort into understanding the challenges and triumphs that help Black youth content with issues surrounding ethnic-racial identity and discrimination (Huguley et al., 2019). Recent meta-analytic studies have also indicated that across the academic literature, parental ERS positively benefits minoritized youth's ethnic-racial identity [ERI] development (Huguley et al., 2019; Wang, Smith, et al., 2020). ERI has been conceptualized as the meaning and one attributes to their ethnic-racial background as socialized through lived experiences and the centrality of this identity within one's self-concept (Umaña-Taylor et al., 2023; Santos et al., 2017; Sellers, 1993). There are several known challenges to healthy ERI development, including interpersonal discrimination (Buckner et al., 2004; Brady & Donenberg, 2006; Borofsky et al., 2013; Ceballo et al., 2022; Center for Disease Control and Prevention [CDC], 2006a). Fortunately, parental ERS has been identified as a protective factor against the negative effects of discrimination on adolescents' ERI (Bentley-Edwards & Stevenson, 2015; Boykin & Toms, 1985; Lesane-Brown, 2006; Priest et al., 2014; Wang et al., 2020).

Though there have been great strides in the literature about ERI, most researchers have studied the construct through cross-sectional and singular time-point studies. This greatly contrasts the dynamic nature of ERI, as it is fluid and susceptible to socialized experiences (Umaña Taylor et al., 2008). There are also gaps in terms of how peers and parents may work independently or in tandem to shape ERI for Black adolescents. The role of parents in molding racially minoritized adolescents' ERI has been well-documented, but few studies have

considered how peers might similarly influence the identity development process. Researchers have noted the salience of peers on shaping racially minoritized youths' ERI development.

Despite preliminary findings highlighting the crucial role of peers in shaping ERI, studies focused on peer ERS among Black adolescents are sparse (Nelson et al., 2017; Ruck et al., 2021). The current study addresses these needs by investigating how socialized experiences shape identity and track how identity changes through time. Specifically, this study used a longitudinal dataset to investigate (a) the role of discrimination on ERI development; (b) the specified elements of ERS (i.e., cultural socialization, preparation for bias, code switching) that influence ERI; (c) the role of peer versus parent ERS on ERI development; and (d) the extent to which the various forms of ERS can protect against the pernicious effects of discrimination on ERI development for Black adolescents.

Literature Review

Ethnic-Racial Identity Development

To better understand the roles of ethnic-racial socialization [ERS] and discrimination on identity development, we must first understand the nuances of identity theory. Erikson's (1968) theory on psychosocial identity development marked adolescence as a period of identity exploration and internalization of future goals, values, and beliefs. According to Erikson (1968), identity can be described as a sense of completeness involving solving the conflict of "who am I" and a deep enthrallment into exploring one's sense of self. His model posited that developing a sense of identity is crucial for healthy life course development, whereas failure to solidify an identity result in identity confusion (Erikson, 1968). Expanding on Erikson's work, theorists like Sellers (1998), Marcia (1994), and Phinney (1990) have specifically applied these concepts to ERI development.

Marcia's (1994) model expanded upon the Eriksonian psychosocial crisis of identity development by identifying four identity statuses at the nexus of identity commitment and identity exploration: identity diffusion, foreclosure, moratorium, and achievement. *Diffusion* refers to a lack of exploration and commitment to one's racialized identity; *foreclosure* entails committing to one's identity without prior and present identity exploration; *moratorium* refers to active ethnic-racial identity exploration without commitment; and *achievement* refers to being committed to racial-ethnic identity after exploration (Marcia, 1994; see Figure 1. Marcia's model was then expanded upon by Phinney (1989, 1990), who further contextualized the interplay between exploration and centrality/commitment within the specific confines of ERI development. Like Marcia (1996), Phinney (1989, 1990, 1993) theorized a linear, but flexible development of identity from diffused to achieved. For example, once one reaches 'achievement' one may regress to 'moratorium', exemplifying this flexibility.

		Has the individual committed to their identity?		
		Yes	No	
the idual ored sir tity?	Yes	Identity Achievement	Moratorium	
Has indivi exple the	No	Foreclosure	Identity Diffusion	

Figure 1. Marcia's Identity Statuses (Marcia, 1994).

Contemporary research attempting to contextualize these theorical findings has presented promising results. Studies such as Hughes and colleagues (2016), found that 42% of adolescents were in moratorium [active exploration] while 25% of emerging adults existed in this stage. Similarly, less than one-third of adolescents reported being in the achieved status while 50% of adults reported an achieved status. Of the few studies that has examined identity changes longitudinally found that about 27% of Black adolescents transitioned from the *exploration stage* to *achievement stage* by the time they reached adulthood (Yip et al., 2006). It is vital that

scholars continue to examine the social experiences (e.g., discrimination) that affect youth's developing ERI, as it can allot a myriad of rich protective factors against discrimination (Fuligni et al., 2005; Lee & Yoo, 2004, Rivas-Drake et al., 2008; Umaña Taylor et al., 2008).

Up to this point, we have reviewed models focusing on ERI exploration and commitment, but another body of research has examined the values associated with ERI. Sellers and colleagues' (1998) original Multidimensional Model of Racial Identity (MMRI) focuses on the *evaluation* and *values* associated with ERI, also known as ERI centrality. While ERI exploration consists of thinking about one's ethnic-racial group, discussing it with others, and participating in cultural activities (Syed et al., 2013). ERI centrality is defined as the extent to which an individual's ERI is integral to their self-concept (Sellers et al., 1998). Understanding the dual aspects of ERI offers insights into the mechanism through which Black adolescents cultivate private regard—that is, how an individual views their own racial group—for their ERI.

Researchers have found that while most adolescents report high private regard, there is variation amongst various ethnic-racial groups regarding centrality. For instance, Latinx youth report high private regard but less centrality than Black youth (Rivas-Drake et al., 2008).

Longitudinal studies that have tracked racially minoritized students from early adolescence to emerging adulthood have offered interesting evidence that Black and Latinx youth gain increasing awareness of racially prejudice views (public regard) as they shift from middle to high school (Altschul et al., 2006; Hughes et al., 2011; Hughes et al., 2011). Unsurprisingly, low public regard tends to be common in the presence of heightened discrimination (Seaton et al., 2009).

Moreover, studies have evidenced that adolescents with high ERI centrality tend to have more positive self-esteem (Umaña Taylor et al., 2008) and better academic trajectories

(Oyserman et al., 2003). Similarly, private regard has been linked to high self-esteem (Lee & Yoo, 2004), well-being (Sellers et al., 2003), and academic motivation (Fuligni et al., 2005) as well as low perceived stress (Sellers et al., 2006). Although there is rich literature addressing the benefits of healthy ethnic-racial identity development, most of these studies have been cross-sectional (Fuligni et al., 2005; Lee & Yoo, 2004, Rivas-Drake et al., 2008). Thus, the goal of the current study is to provide a rigorous examination of the role of discrimination on ERI development and the timelines and experiences that can account for shifts in centrality and exploration from a longitudinal standpoint.

Discrimination on Ethnic-Racial Identity Development

Adolescents are more likely than those in other developmental periods to negatively internalize racial discrimination (Benner et al., 2018). Research has found that instances of race-based discrimination share and association with suboptimal mental health, poor academic outcomes, and low ERI centrality (Benner et al., 2018; Polanco-Roman et al., 2021). The frequency to which these instances occur for racially minoritized youth is staggering. For example, Seaton and Douglass (2014) found that 97% of racially minoritized youth reported at minimum one discriminatory experience in a 2-week span, with Black adolescents experiencing at least five instances of racial discrimination per day, on average (English et al., 2020).

The existing research on the relations between racial discrimination and ERI development has been mixed. For example, Cross's (1991) Nigresence model argues that encounters with discrimination triggers racially minoritized youth's ERI exploration.

Contemporary research has supported this model: Pahl and Way (2006) found that longitudinally Black adolescents that experienced interpersonal discrimination were more likely to experience increased levels of ERI exploration. While some have found that racial discrimination is

associated with lower ERI centrality through time. Spencers' (2006) PVEST model theorizes that experiences with racial discrimination will dampen the ERI development of Black youth and that effect of racial discrimination is largely negative. Likewise, Parham (1989) speculated that if Black adolescents already have high ERI centrality when they experience racial discrimination — they may regress to having lower ERI centrality and exploration. Though, some longitudinal studies have also found no relationship between discrimination and ERI development (Seaton et al., 2011).

Current Limitations within Scholarly Literature

Across the aforementioned studies, racial discrimination was conceptualized under the narrow category of 'interpersonal discrimination' instead of investigating discriminatory experiences within specific domains (e.g., legal, online, etc.), thus representing a prominent shortcoming within the existing literature. As such, there is a need for more developmentally relevant studies that examine various types of discrimination that Black adolescents face (Seaton et al., 2018), such as online, legal, institutional, and vicarious discrimination. By examining these more nuanced categories of discrimination, we can more comprehensively capture the lived, realistic experiences of Black adolescents.

A secondary issue in the racial discrimination literature is that discrimination has been largely studied cross-sectionally. In the few existing longitudinal studies, some scholars have found that race-based discrimination does not influence ERI development (Seaton et al., 2012), while others have found the opposite (Cross, 1991, Masuoka, 2006). A probable cause for these discrepancies in reactions to discrimination may be that youth differ in the coping strategies when encountering discrimination. Hence discriminatory experiences – whether negative or positive – are not interpreted identically across individuals.

The hope of the current study is to strengthen and bring clarity to the available literature by investigating how instances in discrimination affect ERI over time using a multi-dimensional conceptualization of discrimination. Based on PVEST and social identity theory, we speculate that discrimination will be significantly related with ERI development, such that Black adolescents will be negatively affected by discrimination as evidenced by decreases in ERI centrality as discrimination increases through time (Spencer, 2006, PVEST). In line with social identity theories (Cross, 1997; Tajfel & Turner, 1979), we further hypothesize that these discriminatory experiences will heighten ERI exploration through time.

Parent and Peer Socialization Experiences in Adolescence

Parental Ethnic-Racial Socialization. As previously detailed, parental ERS refers to the process through which parents from historically marginalized ethnic-racial groups help their children (a) understand, internalize, and identify with their ethnic-racial group (Huguley et al., 2019) and (b) cope with discrimination experiences. (Hughes et al., 2021). Three of the most prominently studied parental ERS practices include cultural socialization/racial pride, preparation for bias, and code-switching. Racial price/cultural socialization describes messages that inform youth about their ethnic-racial heritage; preparation for bias attempts to inoculate youth against racialized social systems which can be discriminatory and prejudiced through proactive or reactive coping; and code-switching involves direct instruction on how youth should adjust their behavior depending on the racialized social context (Hughes et al., 2006).

Previous longitudinal and meta-analytic studies have found that ERS and positive social experiences with peers and families tend to be associated with high self-esteem, psychological well-being, and healthy identity development in adolescence (Allen et al., 1994; Dahl et al., 2018; Diamond & Gomez, 2004 Hauser et al., 1991; Hughley et al., 2019; Priest et al., 2014;

Wang et al., 2020). For instance, cultural socialization informs youth's developing ERI, thus highlighting the link between ERS and healthy child development (Huguley et al., 2019).

Parental preparation for bias has been positively associated with academic performance, healthy physical development, and racial centrality (Diamond & Gomez, 2004; Huguley et al., 2019; Priest et al., 2014; Wang et al., 2020. Regarding code switching, some have found that Black adolescents utilize code switching to adapt to discriminatory spaces (Umaña-Taylor et al., 2014). These code-switching behaviors may buffer the adverse experiences of discrimination, but this topic has been underexplored in the existing literature.

The available empirical studies (e.g., Huguley et al., 2019) have indicated that parental ERS acts as a mitigator against racial discrimination on ERI development. Moreover, the absence of parental ERS has been linked to adverse effects on healthy ERI development for Black adolescents, especially in the context of ethnic-racial discrimination (Riina & McHale, 2010). Based on the literature thus far supporting the beneficial roles of parental ERS, we expect that parental ERS will serve as a moderator between the relationship of discrimination and ERI development, such that parent ERS will dampen the adverse effects of discrimination on ERI development by increasing centrality and exploration.

Peer Ethnic-Racial Socialization. As children grow into adolescents, they forgo spending time interacting with parents at home in favor of engaging with peers in predominately educational settings (Albert et al., 2021). Indeed, there is evidence that ERS processes traditionally studied in the context of parent-child relationships also occur within peer relationships (Nasir et al., 2009). For example, past studies have found that adolescents converse about racial pride (Wang et al., 2015), engage in race-related traditions and events (Wang et al., 2015), and prepare to cope with interpersonal ethnic-racial discrimination (Butler-Barnes et al.,

2018). However, peer ERS has been understudied in the literature. In the context of a rapidly diversifying ethnic-racial landscape in the U.S., there is a present need to (a) understand whether and how peer ERS may contribute to adolescents' ERI in the context of racial discrimination and (b) delineate how peer and parent ERS may work individually and in tandem to support youth's developing ERI.

As the study of peer ERS is in its nascent stages, researchers have yet to reach scholarly consensus as to the role of peer ERS as it pertains to ERI exploration and centrality within racially minoritized adolescents. Some have found that peers are salient ethnic-racial socializers toward Black adolescents (Butler-Barnes et al., 2018; Hughes et al., 2016; Hugley et al., 2019; Ruck et al., 2021; Wang & Benner, 2016), whereas others have found that peer ERS was not predictive of exploration or commitment (Nelson et al., 2018). Although it is unequivocal that youth of color engage in these peer ethnic-racial socialization processes (Hughes et al., 2016; Hugley et al., 2019; Ruck et al., 2021), there is a lack of evidence as to whether peer ERS confers a similar protective effect as ERS from parents.

Overall, it is unclear as to how often peers engage in certain socialization processes surrounding ethnic-racial pride/cultural pride and preparation for bias. It is also largely unexamined as to whether peer ERS may buffer the deleterious effects of racial discrimination. To advance the academic literature, this study examined the roles of both parental and peer racial-ethnic socialization to see if (a) there is alignment between salience and frequency of socialization processes and (b) if one, both, or neither are salient to ERI development. We predict that peer ERS will act as a moderator in the relationship between discrimination and ERI identity development, such that higher amounts of socialization will dampen the negative effects of discrimination on identity development by increasing centrality and exploration. Likewise, we

expect that peer ERS will exert a stronger influence than parental ERS among adolescents due to the saliency of peer relationships during this developmental period.

Current Study

The present study has three primary objectives that fill existing gaps within the ethnic-racial identity literature. The first goal is to ascertain whether discrimination has long-term effects on the ERI development of Black adolescents. According to social identity theory (Cross, 1991) and PVEST (Spencer, 2006), racially minoritized youth who experience discriminatory experiences are more likely to have high ERI exploration, but low centrality. Secondly, we hope to discover whether parental ERS has a moderating effect on the relationship between discrimination and ERI development throughout time. Lastly, our final goal is to discover whether peers have a similar moderating effect as parents – and if they are even more positive than parents.

Research Questions:	Does discrimination influence the ERI centrality and exploration of racially minoritized youth through time?	Does parent RES have a moderating effect on discrimination and ERI development over time?	Does peer RES have a moderating effect on discrimination and ERI identity development over time?
Corresponding	Black students will be	Parental ERS will serve as a	Peer ERS will serve as a
Hypotheses:	negatively affected by	moderator between the	moderator between the
	discrimination, such that there	relationship between	relationship between
	are decreases in ERI centrality	discrimination and ERI	discrimination and ERI
	as discrimination increases	identity development, such	identity development, such
	through time. Though, I	that higher amounts of	that higher amounts of
	further speculate that these	socialization will dampen	socialization will dampen the
	discriminatory experiences	the negative effects of	negative effects of
	will heighten ERI exploration	discrimination on identity	discrimination on identity
	through time (as supported by	development by increasing	development by increasing
	social identity theory).	centrality and exploration.	centrality and exploration.

Figure 2. Research Questions and Hypotheses

Methods

Participants

The current study utilized data from the "Parenting Engagement Project," which longitudinally examines the interplay of parents and peers on adolescents' collective engagement, academic motivation and performance, and identity development. The participants were tracked from 7th-12th grade. The data was collected from families and students within four districts within the Pittsburgh area, and a broader U.S. sample. Initially, our pilot study in spring 2017 consisted of 612 participants. One advantage of this study is that 52% of the sample were Black students, allowing more exploration of the effects of discrimination and ERS on ERI. Gender was equitable, with a 50% split between males and females. Data collection spanned ten waves from 2017 to 2023 with over 50% of the participants engaging in each wave.

The analytic sample included 231 students from Wave 2 (Spring 2021) (n = 177 for Black students), 177 students in Wave 3 (Spring 2022) (n = 99 for Black students), 162 students in Wave 4 (Fall 2022) (n = 94 for Black students), and 169 students in Wave 5 (Spring 2023) (n = 100 for Black students). The racial composition was diverse (39% Black, 21% White, 13% Biracial, 1.3% Latinx) with a final sample was 52% boys and 48% girls. This study did not collect those outside of these gendered binaries. While the data consists of various ethnic-racial identities, this study will solely focus on Black adolescents and how racialized social experiences effect their identities. Capturing the effects of these experiences from a longitudinal standpoint will more compellingly describe the ways in which negative (i.e., discrimination) and positive (i.e., ERS) experiences affect development through time. Cross-sectional designed studies can certainly observe these relationships at one time point, whereas in longitudinal design there is opportunity to detect minute changes as a function of changing social experiences and environments.

Procedures

The data collection process occurred over three phases over a five-year period, including both qualitative and quantitative surveys (see outline below). A summary of the data collection timeline is present in the figure below – note that data collection continued after Wave 2 until Wave 5 in 2022.

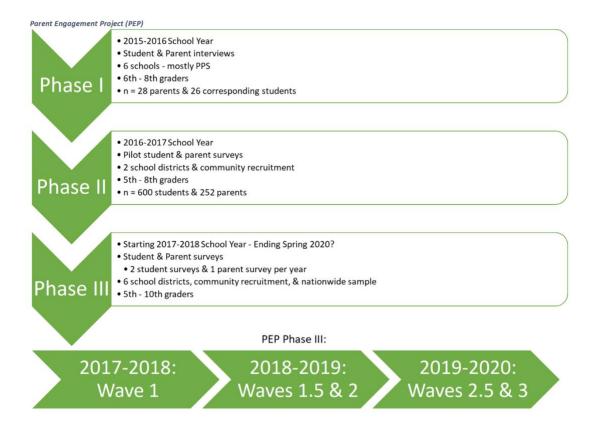


Figure 3. Parent Engagement Project Timeline

As seen in Figure 3, Phase 1 was a qualitative study to design the measures to be used in Phase 2. Phase II (or pilot phase) is a quantitative study of parental involvement in education via student report and parent report. The purpose of this phase of the study was to validate the parental involvement survey measure developed in Phase I. The team administered this survey of parental involvement and related constructs to 612 students. Surveys were administered to all student participants at a single time point during one school year. The 612 caregivers completed a separate, but similar survey of parental involvement and related constructs. Data collectors also

obtained pertinent demographic information from the participants and the schools. Study activities lasted approximately 60 minutes for both students and caregivers. Students received a similar thank you gift for their completion of the survey. Caregivers received a University of Pittsburgh debit MasterCard for their completion of the survey. Each of the six participating schools received payment for collecting school record data in Year 2 of the pilot study.

Phase III (or longitudinal phase) is a quantitative study of parental involvement in education via student, caregiver, and teaching staff report. The purpose of Phase III of the study was to examine how patterns of parental involvement among African American families develop over the course of middle school as well as to understand the relationship between family involvement and academic outcomes over time. Researchers administered the survey of family involvement and related constructs to 315 sixth grade African American students and their primary caregivers. Surveys were administered to all student and caregiver participants at one time point each year across three school years. Survey activities lasted approximately 60 minutes for students and caregivers. All participants will receive incremental payments over the three years. Each of the six participating schools will receive a payment for collecting school record data during Years 2-4 of the longitudinal study.

Measures

Race. Race was assessed with by asking "Are you: (American Indian, Asian, Black, White, Hispanic, Other and Other-text)." Multiple sections were offered.

Gender. Gender was assessed utilizing a binary of 1 = Male and 2 = Female.

Peer Ethnic-Racial Socialization. Adolescents ethnic-racial socialization from their peers was based on two indicators: racial pride/cultural socialization and preparation for bias. *Peer cultural socialization* was assessed using the Cultural Socialization across Contexts Scale

(Wang et al., 2015). The participants rated four items capturing both explicit (e.g., talked about the values and beliefs of one's ethnic/racial background) and implicit messages (e.g., listened to music or watched tv and movies by artists from one's ethnic-cultural background) which centered on racial pride and heritage. The scale ranged from 1 (*never*), 2 (*once or twice*), 3 (*some of the time*), 4 (*many times*) and 5 (*all the time*). *Peer preparation for bias* was similarly structured with four items that inquired about explicit behaviors from peers (e.g., peers gave strategies to respond to discrimination; supported when treated differently because of their race). Participants responded to each item on the same scale ranging from 1 (*never*) to 5 (*all the time*).

Parental Ethnic-Racial Socialization. Adolescents parental ethnic-racial socialization is measured on three indicators: racial pride and heritage, code switching, and preparation for bias. *Racial Pride and Heritage* was assessed with 15 items for racially minoritized students and 10 items for White students. All items were collected from the Parental ethnic-racial socialization Scale ("My parent(s)/guardian(s) talk with me about things people of my race have overcome; "We watch movies that have good or inspiring messages or stories of my race." The scale ranged from 1 (*never*), 2 (*once or twice*), 3 (*some of the time*), 4 (*many times*) and 5 (*all the time*). *Parental preparation for bias* was similarly administered with 13 items for racially minoritized students that inquired about explicit messages from parents ("Talk about how they themselves had been treated unfairly because of their race"; Tell you racism is something you will have to face in life"). Participants responded to each item on the same scale ranging from 1 (*never*) to 5 (*all the time*).

Ethnic-Racial Identity. Ethnic-racial identity was assessed by items from the Multidimensional Inventory of Black Identity (Sellers et al., 1997) and Phinney's (1992) Multigroup Ethnic Identity Measure but was adapted for various racial-ethnic diverse groups.

Both Phinney's (1992) and Seller's (1997) measures are reliable and valid in terms of measuring Black ethnic-racial identity (Altschul et al., 2006; Hughes et al., 2011). Racial-ethnic identification was asked on one item (In terms of ethnic group, I consider myself to be:".

Following this was three items for *belonging or centrality* ("I have a strong sense of belonging to my own ethnic group"; I understand pretty well what my ethnic group membership means to me." Similarly, three items on *public regard* ("Overall people in my ethnic group are respected by others"; "People in this country view people in my ethnic group as an asset") and three items on *exploration* ("I have often done things that will help me understand my ethnic background better.") Participants rated each item using a scale ranging from 1(Strongly Disagree) to 4(Strong Agree).

Racial Discrimination. Racial discrimination was assessed utilizing the Adolescent Discrimination Distress Index (ADDI). It is a 16-item measure that assess adolescent distress in responses to perceived race-based discrimination from institutional (e.g., stores), educational (e.g., teachers), legal (e.g., law enforcement), online [interpersonal and vicarious] and peer contexts. Students indicated whether they have experienced each type of discrimination because of their race or ethnicity and, if so, they rate how much it upset them, on a 5-point scale ranging from 1(Never) to 5(More than 10 times).

Data Analysis Plan

Descriptive statistics will be run to detect differences in discrimination by race, as well as the frequencies of parental and peer ethnic-racial socialization. The main method of data analysis in this study will be a no growth (Model 1) and two growth models (Model 2 and 3) from Waves 1 through Wave 4 in R and Mplus. The no growth model only tracks the changes of ERI identity across time without considering other covariates. The next set of analyses will be mixed-

modeling techniques to detect the longitudinal changes of ERI as a function of racialized experiences (i.e., ethnic-racial socialization and discrimination).

The no growth model equations are as follows:

Within-subject models – level 1

$$C_{ij} = b_{0i} + b_{1i}Time_{ij} + e_{ij}$$

$$E_{ij} = b_{0i} + b_{1i}Time_{ij} + e_{ij}$$

Between-subject models – level 2

$$b_{0i} = B_0 + v_{0i}$$

$$b_{1i} = B_1 + v_{1i}$$

Within this equation C_{ij} represents the outcome variable of ERI centrality, while E_{ij} represents the outcome variable for ERI exploration as time "j" for individual "i". The b_{0i} is the baseline level of ERI centrality and exploration for participant "i". The b_{1i} term specifies the average Wave change for ERI centrality and exploration. β_0 is the average baseline level for ERI centrality and belonging. β_1 is the average ERI centrality and belonging Wave change. v_{0i} and v_{1i} represent the individual-specific random effects from the population-level intercept; more specifically how person "i" may vary from the population-level average. By utilizing individual-specific deviations (i.e., v1, v2) and random error terms in these models I can account for both within and between persons variation through time. Finally, e_{ij} signifies the error term or the random variability. In these equations we assume: $u_{it} \sim N(0, \sigma_{ut}^2)$ and $d_{1t} \sim N(0, \sigma_{d1}^2)$. $u_{it} \sim N(0, \sigma_{d1}^2)$ states that the error term is normally distributed with a mean on zero, similarly $d_{1t} \sim N(0, \sigma_{d1}^2)$ assumes the individual-specific deviations are normally distributed with a mean of zero or accounts for variability among individuals ERI that is not

accounted by the population-level intercept. This acts as a null model to which Models 2 and 3 can be compared: calculations will be made using the nlme:nlme() function in R.

Model 2 will allow detection in changes in racial-ethnic identity through time as a function of parental ERS, and how discrimination impact these changes. There are three different moderators that will be tested separately within model 2 that represent some aspect of parent ERS (i.e., preparation for bias, racial pride, code switching, cultural socialization). The equations for this model will be:

Within-subject models – level 1

$$\begin{split} C_{ij} &= b_{0i} + b_{1i} Time_{ij} \\ &+ b_{2i} ParentRES_{ij} + b_{3i} Gender_{ij} + b_{4i} SES_{ij} + b_{5i} Grade_{ij} + b_{6i} Discrim_{ij} \\ &+ b_{7i} ParentRES_{ij} * b_{7i} Discrim_{ij} + b_{8i} Time_{ij} * b_{8i} PareentRES_{ij} + e_{ij} \\ E_{ij} &= b_{0i} + b_{1i} Time_{ij} \\ &+ b_{2i} ParentRES_{ij} + b_{3i} Gender_{ij} + b_{4i} SES_{ij} + b_{5i} Grade_{ij} + b_{6i} Discrim_{ij} \\ &+ b_{7i} Prep4Bias_{ij} * b_{7i} Discrim_{ij} + b_{8i} Time_{ij} * b_{8i} ParentRES_{ij} + e_{ij} \end{split}$$

Between-subject models – level 2

$$b_{0i} = B_0 + v_{0i}$$

$$b_{1i} = B_1 + v_{1i}$$

$$b_{2i} = B_2 + v_{2i}$$

$$b_{3i} = B_3 + v_{3i}$$

$$b_{4i} = B_4 + v_{4i}$$

$$b_{5i} = B_5 + v_{5i}$$

$$b_{6i} = B_6 + v_{6i}$$

$$b_{7i} = B_7 + v_{7i}$$

$$b_{8i} = B_8 + v_{8i}$$
 Where:
$$u_{it} \sim N(0, \sigma_u^2)$$
 And:
$$\begin{bmatrix} d_{1i} \\ d_{2i} \end{bmatrix} \sim N \begin{bmatrix} 0 \\ 0 \end{bmatrix}, \begin{bmatrix} \sigma_{d1}^2 & \sigma_{d1d2} \\ \sigma_{d1d2} & \sigma_{d2}^2 \end{bmatrix}$$

As shown above, the linear growth model includes two different models one that detects discrimination and parent ERS on ERI centrality C_{ij} and one with exploration E_{ij} . For the third model, I am detecting the role of peer RES n on the relationship between discrimination and racial-ethnic identity:

Within-subject models – level 1

$$\begin{split} C_{ij} &= b_{0i} + b_{1i} Time_{ij} \\ &+ b_{2i} PeerRES_{ij} + b_{3i} Gender_{ij} + b_{4i} SES_{ij} + b_{5i} Grade_{ij} + b_{6i} Discrim_{ij} \\ &+ b_{7i} ParentRES_{ij} * b_{7i} Discrim_{ij} + b_{8i} Time_{ij} * b_{8i} PeerRES_{ij} + e_{ij} \\ E_{ij} &= b_{0i} + b_{1i} Time_{ij} \\ &+ b_{2i} PeerRES_{ij} + b_{3i} Gender_{ij} + b_{4i} SES_{ij} + b_{5i} Grade_{ij} + b_{6i} Discrim_{ij} \\ &+ b_{7i} Prep4Bias_{ij} * b_{7i} Discrim_{ij} + b_{8i} Time_{ij} * b_{8i} PeerRES_{ij} + e_{ij} \end{split}$$

Between-subject models – level 2

$$b_{0i} = B_0 + v_{0i}$$

$$b_{1i} = B_1 + v_{1i}$$

$$b_{2i} = B_2 + v_{2i}$$

$$b_{3i} = B_3 + v_{3i}$$

$$b_{4i} = B_4 + v_{4i}$$

$$b_{5i} = B_5 + v_{5i}$$

$$b_{6i} = B_6 + v_{6i}$$

$$b_{7i} = B_7 + v_{7i}$$

 $b_{8i} = B_8 + v_{8i}$

Where:
$$u_{it} \sim N(0, \sigma_u^2)$$

And:
$$\begin{bmatrix} d_{1i} \\ d_{2i} \end{bmatrix} \sim N \begin{bmatrix} 0 \\ 0 \end{bmatrix}, \begin{bmatrix} \sigma_{d1}^2 & \sigma_{d1d2} \\ \sigma_{d1d2} & \sigma_{d2}^2 \end{bmatrix}$$

Results

Descriptives

Table 1. ERI Exploration and Centrality Means Across Waves

Wave	ERI Exploration Mean	ERI Centrality Mean
1	2.67	2.94
2	2.72	3.01
3	2.73	2.97
4	2.91	3.08

Table 1 indicates that ERI exploration is gradually increasing through time on average. This suggests that there may be a linear relationship between ERI exploration and time, whereas for ERI centrality there are increases and decreases across time; indicative of possible quadratic development of ERI centrality. The effect size from Wave 1-2 was 0.084, Wave 2-3 was 0, and Wave 3-4 was .264. Thus, the shifts throughout the last waves were the most salient with a marginal effect size.

Table 2. Unconditional growth models of ERI

ERI Type	B (SE)	P-value
Centrality	049 (.13)	.711
Exploration	.061 (.02)*	.013

Note. *p < .05, **p < .01, ***p < .001, *p < .01

I first tested two linear mixed unconditional models: the first was for ERI centrality and second was for ERI exploration. The first model tested only the slope of change of centrality (i.e., Wave). Simultaneously, I tested whether a quadratic or linear form of time better fits the

model. Results indicated that both the quadratic and linear term for Wave (time) were insignificant. Suggesting no detectable relationship between ERI (identity) centrality and time. Thus, there is a lack of evidence that ERI centrality changes through time for Black adolescents in this developmental period.

For the second model, I tested whether ERI exploration changes linear or quadratically through time. Unlike the ERI centrality model, the linear term for time was significant (b = 0.0614, SE = 0.024, p = 0.0136). The linear model similarly had higher model fit parameters (AIC = 847.5, BIC = 863.7) compared to the quadratic model (AIC = 848.4, BIC = 868.7). Suggesting that ERI exploration positively changes through time linearly for Black adolescents in the study.

Table 3. Parents ERS Moderator Models on ERI Centrality for Black Adolescents

Prep	aration for Bia	as		Racial Pride		Code	Switching	
Variable	B (SE)	95% CI	Variable	B (SE)	95% CI	Variable	B (SE)	95% CI
Discrimination	57* (.23)	[-1.04,11]	Discrimination	.06 (.13)	[20, .32]	Discrimination	.13 (.12)	[10,.37]
Preparation for Bias	018 (.20)	[51, .15]	Racial Pride	.11 (.10)	[09, .32]	Code Switching	.08 (.08)	[08,.24]
Linear Time	31 (.20)	[72, .09]	Linear Time	30* (.15)	[61,00]	Linear Time	24 (.15)	[54,.04]
Quadratic Time	.06 (.04)	[03, .15]	Quadratic Time	.03 (.03)	[02, .10]	Quadratic Time	.04 (.03)	[01,.10]
Gender	31 (.20)	[30, .12]	Gender	07 (.09)	[26, .10]	Gender	08 (.09)	[27,.11]
Socioeconomic Status	04 (04)	[12, .03]	Socioeconomic Status	.00 (.03)	[06, .07]	Socioeconomic Status	00 (.03)	[07,.06]
Grade Level	08 (.15)	[40, .23]	Grade Level	.02 (.11)	[19, .25]	Grade Level	00 (.11)	[23,.21]
Moderator (Prep for Bias)	.14* (.06)	[.02, .26]	Moderator (Racial Pride)	01 (.04)	[00, .06]	Moderator (Code Switch)	01 (.03)	[08,.05]
Preparation for Bias x Wave	.00 (.01)	[01, .01]	Racial Pride x Wave	.00 (.01)	[00, .16]	Code Switch x Wave	00 (.00)	[01,.00]

Note. *p < .05, **p < .01, ***p < .001, ^tp < .1

Table 4. Parents ERS Moderator Models on ERI Exploration for Black Adolescents

Preparation for Bias			Racial Pride			Code Switching		
Variable	B (SE)	95% CI	Variable	B (SE)	95% CI	Variable	B (SE)	95% CI
Discrimination	36 ^t (.21)	[78,.05]	Discrimination	.03 (.12)	[21, .26]	Discrimination	.02 (.11)	[19,.25]
Preparation for Bias	01 (.15)	[31, .28]	Racial Pride	.28** (.09)	[.09, .43]	Code Switching	.04 (.07)	[11,.20]
Linear Time	26 (.19)	[65, .12]	Linear Time	36* (.15)	[66,07]	Linear Time	40** (.15)	[70,10]
Quadratic Time	.06 (.04)	[02, .16]	Quadratic Time	.06* (.03)	[.00, .12]	Quadratic Time	.07* (.03)	[.01,.14]
Gender	20* (.09)	[38,01]	Gender	28*** (.07)	[43,13]	Gender	33*** (.08)	[49,17]
Socioeconomic Status	.00 (03)	[06, .07]	Socioeconomi c Status	.07* (.03)	[.01, .12]	Socioeconomic Status	07* (.03)	[007,.13]
Grade Level	02 (.15)	[32, .26]	Grade Level	02 (.10)	[24, .18]	Grade Level	.017 (.11)	[20,.23]
Moderator (Prep for Bias)	.11* (.05)	[.005, .22]	Moderator (Racial Pride)	00 (.03)	[07, .07]	Moderator (Code Switch)	.02 (.03)	[03,.09]
Preparation for Bias x Wave	00 (.01)	[01, .01]	Racial Pride x Wave	.00 (.005)	[07, .07]	Code Switch x Wave	.00 (.00)	[00,.01]

Note. **p* < .05, ***p* < .01, ****p* < .001, ^tp<.1

Table 5 Peer ERS Moderator Models on ERI Centrality for Black Adolescents

Pro	eparation for Bi	as	Racial Pride			
Variable	B (SE)	95% CI	Variable	B (SE)	95% CI	
Discrimination	01* (.11)	[22,.24]	Discrimination	.05 (.13)	[21, .31]	
Preparation for	.12 (.07)	[03, .27]	Racial Pride	$.12^{t}(.08)$	[04, .29]	
Bias						
Linear Time	19 (.15)	[50, .11]	Linear Time	17 (.15)	[48, .12]	
Quadratic	$.05^{t}(.03)$	[00, .11]	Quadratic Time	.04 (.03)	[01, .11]	
Time						
Gender	02 (.09)	[20, .15]	Gender	02 (.09)	[20, .15]	
Socioeconomic	03 (.03)	[10, .03]	Socioeconomic	04 (.03)	[10, .02]	
Status			Status			
Grade Level	05 (.11)	[17, .29]	Grade Level	.07 (.11)	[15, .30]	
Moderator	.01 (.03)	[05, .08]	Moderator	.00 (.03)	[07, .08]	
(Prep for Bias)			(Racial Pride)			
Preparation for	01*	[01, .00]	Racial Pride x	00 (.01)	[01, .00]	
Bias x Wave	(.004)		Wave			

Note. *p < .05, **p < .01, ***p < .001, *p < .01

Table 6. Peer ERS Moderator Models on ERI Centrality for Black Adolescents

Prep	aration for Bias	3	Racial Pride		
Variable	B (SEB)	95% CI	Variable	B (SEB)	95% CI
Discrimination	57* (.23)	[-1.04,11]	Discrimination	.08 (.11)	[14,.32]
Preparation for	02 (.20)	[51, .15]	Racial Pride	.31*** (.07)	[.16,.46]
Bias					
Linear Time	31 (.20)	[72, .09]	Linear Time	25 ^t (.15)	[54,.04]
Quadratic Time	.06 (.04)	[03, .15]	Quadratic Time	.08**(.03)	[.02,.14]
Gender	31 (.20)	[30, .12]	Gender	18** (.07)	[09,.32]
Socioeconomic	04 (04)	[12, .03]	Socioeconomic	.00 (.02)	[05,.06]
Status			Status		
Grade Level	08 (.15)	[40, .23]	Grade Level	01 (.11)	[23,.19]
Moderator (Prep	.14* (.06)	[.02, .26]	Moderator	.00 (.03)	[06,.07]
for Bias)			(Racial Pride)		
Preparation for	.00 (.01)	[01, .01]	Code Switch x	00^{t} (.00)	[01,.00]
Bias x Wave			Wave		

Note. **p* < .05, ***p* < .01, ****p* < .001, ^tp<.1

Model 2: Discrimination and Peer ERS Models on ERI Centrality and Belonging.

Following the unconditional growth models, I tested all the covariates (i.e., discrimination, gender, SES, Grade) and moderations between various types of ERI socialization (i.e., preparation for bias, racial pride, code switching, peer preparation for bias, peer cultural socialization) on the relationship between discrimination and identity development across time. As with Model 1, I also tested linear and quadratic terms for time.

Peer Cultural Socialization

The set of models tested whether ERI centrality and exploration was associated with peer cultural socialization. Both the linear and quadratic model had insignificant outcomes for the ERI centrality model, such that no covariates or moderation were significant. Consequently, the analyses proceeded to the ERI exploration model. Here, the quadratic model displayed higher fit parameters (AIC = 624.3, BIC = 666.8) compared to the linear model (AIC = 626.3, BIC = 664.9). The model found that peer cultural socialization (b = 0.263, SE = 0.07, p < 0.000), quadratic time (b = 0.056, SE = 0.028, p = 0.046), and gender (b = -0.191, SE = 0.075, p = 0.012) were significant and associated with ERI exploration, but racial discrimination, linear time, SES, and the moderation were insignificant. Thus, peer cultural socialization is associated with increasing ERI exploration through time. Similarly, being a Black male is associated with lower ERI exploration through time.

Peer Preparation for Bias

The next set of models, we examined whether ERI centrality and exploration was associated with peer preparation for bias. Similar to the previous model, both the linear and quadratic model had highly insignificant outcomes for the ERI centrality model, such that no covariates or moderation were significant. Therefore, analyses proceeded to the ERI exploration

model. The quadratic model had higher fit parameters (AIC = 635.4, BIC = 677.9) compared to the linear model (AIC = 636.6, BIC = 675.2). The model found that peer preparation for bias (b = 0.116, SE = 0.06, p = 0.089), quadratic time (b = 0.051, SE = 0.028, p = 0.073), and gender (b = -0.182, SE = 0.077, p = 0.020) were significant and associated with ERI exploration, but racial discrimination, linear time, SES, and the moderation were insignificant. Thus, peer preparation for bias is associated with increasing ERI exploration through time. Similarly, being a Black male is associated with lower ERI exploration through time.

Model 3: Discrimination and Parental ERS Models on ERI Centrality and Belonging. Parental Preparation for Bias Models

These models assayed whether preparation for bias was a moderator on the relationship between racial discrimination and ERI centrality and exploration. The linear model for this relationship evidenced that time, preparation for bias, and all the covariates were insignificant. However, racial discrimination (b = -.5712, SE = 0.236, p = 0.0164) and the moderation of preparation for bias (b = 0.142, SE = 0.06, p = 0.019) was significant. Suggesting that racial discrimination is negatively associated with ERI centrality and exploration – such that as discrimination increases ERI decreases. Likewise, the moderation suggests that preparation for bias buffers the negative effects of discrimination on ERI development. However, the model fit for the linear model (AIC = 401.3, BIC = 434.5) was less robust compared to the quadratic model (AIC = 400.5, BIC = 437). Thus, analyses proceeded by considering the fixed effects of the quadratic model. The intercept term for ERI centrality (b = 4.56, SE = 1.58) suggested that Black adolescents have an ERI centrality average of about 4.56 [the highest possible score is 5]. The quadratic model found that racial discrimination (b = -0.57, SE = 0.234, p = 0.015), quadratic time (b = 0.066, SE = 0.039, p = 0.096), and the moderation term (b = .144, SE = 0.014).

0.060, p = 0.017) were all significant. Thus, the quadratic model suggests that racial discrimination has a negative effect on the ERI centrality of Black adolescents through time. However, the term of quadratic time was positive and marginally significant indicating that ERI centrality does increase through time but in a non-linear function. This implies that instances of racial of discrimination can have temporal negative effects on ERI centrality but does not overall associate with a negative decrease of ERI centrality throughout time. Importantly, there is evidence that preparation for bias from parents act as a mitigator of racial discrimination on ERI centrality, such that higher amounts of preparation of bias can dampen the negative effects of racial discrimination on ERI centrality.

The same procedures were conducted for ERI exploration. Similar to the ERI centrality model, the quadratic model fit the data better (AIC = 367.6, 404.1) compared to the linear model (AIC = 368.1, BIC = 401.3). The model found that the average intercept of ERI exploration (b = 3.05, SE = 1.48) was approximately 3.05 [highest possible value is 5]. The significant predictors in the model were racial discrimination (b = -0.377, SE = 0.213, p = 0.0786), gender (b = -0.202, SE = 0.093, p = 0.032), and the moderation of preparation for bias (b = 0.115, SE = 0.054, p = 0.0365. However, time, SES, and grade were insignificant predictors of ERI exploration. Racial discrimination has a marginal, negative effect on ERI exploration indicating that discrimination negatively effects ERI exploration. The negative, significant gender term indicates that females have higher ERI exploration. Importantly, the preparation for bias moderation remains positive and significant indicating that preparation for bias serves as a buffer against the negative effects of racial discrimination on ERI exploration. However, these significant outcomes cannot be interpreted as being significant through time.

Parental Racial Pride Models

These models tested whether racial pride was a moderator on the relationship between racial discrimination and ERI centrality and exploration. Similar to before, the quadratic model had better fit parameters (AIC = 651.3, BIC = 693.4) compared to the linear model (AIC = 654.4, BIC = 695.5). The model found that linear time (b = -.308, SE = 0.1539, p = 0.046) and quadratic time (b = 0.051, SE = 0.028, p = 0.0741) were significant, while all other covariates and moderations were insignificant, including racial discrimination, racial pride, gender, SES, grade level, and pride as a moderator. The linear term was significant, while the quadratic term has marginal significance indicating that ERI centrality decreases through time in this model – which is in opposition to the preparation for bias model. The varying effects across models can be conceptually puzzling, but the difference in significance is largely a function of the moderators and other variates in the models. For example, time may be significant in a model where ERI changes are detected to occur as a function of the covariates: meaning that if preparation for bias is significant then time may be more likely to have a detectable, significant effect.

Though, the model for ERI exploration had entirety varying results. The quadratic model (AIC = 582.4, BIC = 624.5) fit the data better compared to the linear model (AIC – 589.9, BIC = 632.1). The significant covariates in the model included racial pride (b = 0.0330, SE = 0.08, p < 0.001), linear time (b = -0.375, SE = 0.147, p = 0.0118), quadratic time (b = 0.08, SE = -.027, p = -.0037), gender (b = -0.284, SE = 0.075, p < 0.001), and SES (b = 0.069, SE = 0.030, P = 0.021). A positive racial pride coefficient suggests that racial pride is associated with increased ERI exploration. Linear and quadratic terms are both significant, however the quadratic term has higher significance: thus, we conclude that the relationship between ERI centrality and time in

this model is quadratic (see Tables 3-5 above). Also, being a Black male was associated with lower ERI exploration in comparison to females – as seen in the previous model. Lastly, having a higher SES was associated with more ERI exploration for Black youth.

Parental Code Switch Models

The next set of models tested whether ERI centrality and exploration was associated with code switching. Both the linear and quadratic model had highly insignificant outcomes for the ERI centrality model, such that no covariates or moderation were significant. Thus, analyses proceeded to the ERI exploration model. The quadratic model had better model fit statistics (AIC = 648.3, BIC = 690.7) compared to the linear model (AIC = 655.9, BIC = 698.4). The quadratic model evidenced that linear time, quadratic time, gender, and SES were significant predictors of ERI exploration. As before, both linear (b = -0.412, SE = 0.151, p = 0.0069) and quadratic time (b = 0.084, SE = 0.028, p = 0.0033) are significant. Hence, an examination of a graph of the changes through time can provide further clarity as to the true nature of time in the model (see below). Furthermore, being a Black male was associated with lower ERI exploration in comparison to females – as seen in the previous model. Lastly, having a higher SES was associated with more ERI exploration for Black youth.

Discussion

To date, research on ethnic-racial socialization has predominantly centered on the roles of parents; hence, we know little about the impact of other developmental agents, such as peers.

The current study aimed to illuminate (a) the impact of discrimination on ethnic-racial identity (ERI) development and (b) whether and to what extent peer and parental ethnic-racial socialization (ERS) moderate the relationship between discrimination and ERI development over a two-year period. Findings indicated that racial discrimination catalyzes ERI exploration and

centrality among Black adolescents through time. Furthermore, ERS from both peers and parents moderated the association between discrimination and ERI development. More specifically, preparation for bias from peers and peers both moderated the relationship between discrimination and ERI development. Thus, there is evidence that discrimination affects ERI through time and that both peers and parents are effective socializers to Black adolescents that can protect against the negative effects of discrimination.

Racial Discrimination

The current study leveraged longitudinal analyses to provide unique insights into the effects of discrimination. Discrimination shared a negative association with Black adolescents' ERI development; however, when looking at ERI centrality and exploration, our findings were mixed. Increases in discrimination over time were associated with increases in ERI exploration, but models examining the link between discrimination and ERI centrality over time were not significant.

These findings are partially in line theories such as Phenomenological Variant of Ecological Systems Theory (PVEST; Spencer, 2006) and social identity theory (Cross, 1991). According to these theories, racially minoritized youth who experience racial discrimination are more prone to explore their ERI, but these adverse social experiences can dampen ERI centrality (e.g., Cross, 1971, 1991; Phinney, 1990). Empirical literature has also indicated that racial discrimination may catalyze ERI exploration among Black adolescents (Cross, 1991; Pahl & Way, 2006; Tajfel & Turner, 2004) while having a negative effect on ERI centrality (Benner et al., 2018; Polanco-Roman et al., 2021). As such, our findings regarding ERI exploration align with the general consensus in existing literature, while our findings regarding ERI centrality are at odds with published research.

There is a constellation of potential reasons why our hypotheses regarding ERI centrality was not supported. For example, participants may have had previously high ERI centrality and developed effective coping strategies for racial discrimination as they entered the longitudinal study. As suggested by Yip and colleagues (2006), Black youth tend to already have an achieved or highly central ERI by the time they reach adolescence. It may be the case that discrimination experiences prior to this data collection period had already significantly affected youth's ERI centrality; thus, participants may have entered the study with more fully centralized ERI. There is some evidence for this claim in our data, as ERI centrality hovered near a value of 3 on a 4-point Likert scale throughout the 2-year span, indicating that most participants had relatively stable ERI. Furthermore, no models in our analyses found an association between age and ERI centrality further evidencing that ERI centrality did not significantly change with age in our study. If participants' ERI is stable, then the coping mechanisms for reacting to discrimination may be effective, consequently discrimination is not as detrimental toward ERI centrality (Tynes et al., 2012).

Peer and Parental Preparation for Bias

Based on past research (Nelson et al., 2018), we hypothesized that both parental and peer preparation for bias would protect against the negative effect of discrimination and ERI identity development such that higher amounts of parent ERS would dampen the adverse effects of discrimination. Our hypothesis regarding preparation for bias from parents was supported by our data, and these findings add to the large body of research evidencing parents are salient at cultivating their children's racialized identities through ERS (Benner et al., 2018; Polanco-Roman et al., 2021). Practically, our findings align with literature indicating that Black parents understand the developmental and social needs of their youth as they enter a highly racialized

society (Diamond & Gomez, 2004; Huguley et al., 2019; Priest et al., 2014; Wang et al., 2020). These findings underscore the critical function of parental preparation for bias in buffering the effects of discrimination and boosting ERI development. Consequently, there is evidence that emphasized the critical importance of family in positively shaping Black youth.

This study contributes uniquely to the available literature by examining the role of ERS from peers. We found that preparation for bias from peers moderated the relationship between discrimination and ERI exploration, but not centrality. These findings directly align with those presented within extant research (Juang & Syed, 2014; Nelson et al., 2018; Syed, 2012). To our knowledge, there are few documented on the differences between the effects of parent versus peer preparation for bias (Nelson et al., 2018). However, there is a possibility that while the content of peer and parental preparation for bias may vary in terms of reasoning behind the messages, their positive effects are similar. For example, parents hope to prepare for a stigmatized society based on experience, while peers are providing social support (Nelson et al., 2018). Moreover, it is possible that both entities are salient in positively molding ERI exploration development for Black adolescents experiencing high amounts of discrimination.

Peer and Parental Racial Pride/Cultural Socialization

We predicted that cultural socialization—regardless of whether from parents or peers—would have a protective moderating effect in the relationship between racial discrimination and ERI development; however, this hypothesis was not supported. Racial pride from parents as a singular variable (not a moderator) was a positive predictor of healthy ERI exploration. Though previous studies have found that racial pride is an asset to healthy ERI development and mitigator of discrimination (Peck et al., 2014; White & Wanless, 2019), it is surprising that our study did not detect moderating effects for ERI centrality. Similar studies have found that parents

assist in developing their children's sense of self by enthralling them in their ancestor's identities (Fivush et al., 2008). These contradicting findings may suggest that while racial pride has positive effects on ERI exploration – it may not mitigate the adverse effects of discrimination.

As mentioned, our analysis offered unexpected findings that do not align with extant findings that positive racial messages about heritage have a positive moderating impact on ERI (Merrill & Fivush, 2016). It is possible that racial pride serves as a mechanism to foster ERI exploration – which may lead to higher ERI centrality at future time points. Arnett (2000) argues that major ERI exploration does not occur until emerging adulthood – rather than adolescents. This may explain the reasons for no detectable associations between racial pride and ERI exploration. Furthermore, there may be other sources of racial pride that boost ERI centrality outside of parents. Researchers have noted the salience of peers on shaping racially minoritized youths' overall health and well-being (Matlin et al., 2011; Thomas & Brausch, 2020), hence it may be possible that racial pride positively effects well-being rather than ERI development. Lam and Crouter (2014) similarly note the salience of peers on other peers' developmental well-being and mental health. Other possible explanations include the role of parents: Brown and colleagues (2010) found that Black mothers are the primary source of racial pride, but there may be alternative sources of pride-based messages. For example, there may be cultural-events or organizations that Black youth participate in that serve these functions. Unfortunately, our current data does not allow us to confirm these hypotheses.

In terms of peer racial pride, we found a positive association between pride and ERI exploration that partially supported our hypothesis. The influence of peer racial pride – and racial pride more broadly – is complex. A significant quadratic relationship of time (see Table 2) suggests that racial pride messages may not have been immediately internalized by the Black

adolescents in our sample. The initial delays can be attributed to the adverse effects of discrimination. However, it is largely unclear as to the reasoning for the quadratic time. We recommend future scholars continue to explore the intricacies of racial pride messages on ERI development.

Code Switching

The last parental ERS model centered on the role of code-switching messages from parents on ERI development. The code-switching model for ERI centrality and exploration had no significant indicators, including covariates and moderators. The data suggests that code switching has no detectable effect on the ERI centrality of Black youth. Several reasons can explain this lack of significance. Perhaps, the code-switching messages served as protection from future or anticipated discrimination. It is also possible that code-switching does not detectably affect ERI development, but rather mental health and well-being (Spencer et al., 2022). We did not focus on code switching too carefully as there was no code-switching variable for peers, thus it does not substantively add to the purposes of the current study.

Limitations, Future Directions, and Conclusion

The current study adds to our understanding of ERI development by examining the interplay of racial discrimination and ERS from the parents and peers over time. While this work offers substantial insights into the unexplored roles of peers on racially socializing, results must be interpreted considering several limitations. Firstly, the data was correlational and longitudinal, rather than causal. Hence, we cannot make conclusive claims as to the role of these socialized experiences. However, we have provided descriptive, correlational, and longitudinal analyses that are conducive for future causal frameworks. Other studies have similarly produced compelling longitudinal tests of these relationships (e.g., Nelson et al., 2018; Umaña-Taylor et

al., 2023), indicating that the data and inferences on the longitudinal paths of these relationships closely match the work found in similar studies.

Secondly, some of the scales used to measure ethnic-racial socialization were adapted and self-created, thus we cannot be certain of the replicability of our findings. Using survey data may not accurately represent the degree or frequency of ethnic-racial socialization messages. Those who have more centralized ERI's are perhaps more adept at remembering and reporting instances of positive ethnic-racial cultural experiences. However, by collecting multiple tropes of ERS it is our hope that the data provides a more accurate representation of the ERS experiences of Black adolescents. Due to time constraints, further parsing within and between subjects' effects could not be done; these analyses will be completed in future research upon the submission of this study.

There is fruitful opportunity for future researchers to examine more ecologically salient buffers of racial discrimination on ERI development. There is also more room for nuance in understanding the lenses through which parents and peers differently socialize youth. For example, parents who prepare youth for bias may be offering more cautionary tales, while peers center on previous experiences and means for supporting one another. These varying messages ought to have differing effects on ERI development and psychological well-being. The times in which youth receive these messages likely matter as well. If racially minoritized youth have a previously high ERI centrality, then preparation for bias may not be as salient – due to already developed ERI.

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Appendices

A. Scales and Measures

Construct	Notes	Label	Item Question
Demographics			
Gender		Ngndr_14	What is your gender?
Race/Ethnicity		Nrc1_14	Are you: American Indian or Alaska
		Nrc2_14	Are you: Asian or Asian American
		Nrc3_14	Are you: Black or African American
		Nrc4_14	Are you: Hawaiian Native or Pacific
		Nrc5_14	Are you: White or European Americ
		Nrc6_14	Are you: Hispanic or Latino/Latina
		Nrc7_14	Are you: Other
		Nrc7_TEXT_14	Are you: Other-Text
English as first language		Nlang_14	Is English your first language?
			Which parent(s) or guardian(s) do y
All in-home			
parents/guardians		Ninhm1_14	Mother
		Ninhm2_14	Father
		Ninhm3_14	Step-mother
		Ninhm4_14	Step-father
		Ninhm5_14	Grandfather
		Ninhm6_14	Grandmother
		Ninhm7_14	Aunt
		Ninhm8_14	Uncle
		Ninhm9_14	Brother
		Ninhm10_14	Sister
		Ninhm11_14	Father's girlfriend/partner
		Ninhm12_14	Mother's boyfriend/partner
		Ninhm13_14	Other
		Ninhm13_14_TEX	
		Т	Other-Text
Primary Parent/Guardian		Ncgr12_14	Who is your primary parent or guar
		Ncgr12_14_TEXT	Who is your primary parent or guar
School District & School		Nsch_14	Please select your school.
		Nsch_14_TEXT	Please select your school TEXT
Grade		Ngrad_14	What grade are you in?

GPA		Ngpa_14	For the current school year (2022-2 (GPA)?
21-22 grades		Egrd_14	On your most recent report card, w
		Mgrd_14	On your most recent report card, w
SES		Nbook_14	About how many books are there in
Family structure		Nsib_14	How many brothers and sisters do y
COVID-19 Vaccine		Nvac1_14	Have you received the COVID-19 va
	Asked only if "Yes" to Nvac1	Nvac3_14	If yes, how many shots 1, 2, or 3?
		_	
Daily Emotions			How often did you feel the followin
		Nde22_14	Нарру
		Nde18_14	Nervous
		Nde30_14	Energetic
		Nde28_14	Stressful
			Anxious
			Lonely
		_ Nde21_14	Depressed or Sad
General Parenting Practices			
Scale			How much do you agree or disagree
Open Communication		Noc1_14	My parent(s)/guardian(s) are good
		Noc2_14	I can discuss my beliefs with my par
		Noc4_14	It is very easy for me to express my
		Noc5_14	If I were in trouble, I could tell my p
			How often do your parent(s)/guardi
Emotional Responsiveness		Ner1_14	They give me comfort when I am up
		Ner2_14	They show sympathy when I am hu
		Ner3_14	They are responsive to my feelings.
			When your parent(s)/guardian(s) ta
Democratic parenting -			
Behavior		Ndp1_14	My parent(s)/guardian(s) explain th
		Ndp3_14	My parent(s)/guardian(s) emphasiz
		Ndp4_14	My parent(s)/guardian(s) have me t
		Ndp5_14	My parent(s)/guardian(s) explain ho My parent(s)/guardian(s) tell me th
		Ndp7_14	activity.
Educational Engagement			-
Luucational Engagement			
Educational Expectations		Nee1 14	What grades do your parent(s)/gua
Educational Expectations		11001_11	What grades do your parent(s)/gad

	No.1 14	If everything went right, what grade
	Nea1_14	period? Things often don't go right, so what
	Nep1_14	the next marking period?
	· -	<u>. </u>
	Nea2 14	If everything went right, how far wo
	11002_21	When you get homework, how often
	Nhome1 14	Set a schedule for me to complete r
	_	Check to make sure I am doing my I
	_	Make sure I have a quiet place to co
	-	Please respond to the following stat
		Show me how the things I learn in s
	Nas3_14	life.
	Nas4_14	Tell me that it is normal to find scho
	Nas6_14	Talk to me about having a good out
	Nas8_14	Talk to me about how to talk with t
	_	
		In the past 4 months, how often hav
	Npmon1_14	Asked to meet your friends
	Npmon2_14	Told you not to hang out with certa
	Npmon3_14	Talked to your friends' parents abou
	Npmon4_14	Asked to meet the parent(s)/guardi
	Npmon7_14	Asked your friends about things the
	Npmon8_14	Made sure another adult was with y
	Npmon9_14	My parent(s)/guardian(s) expect me
	Npmon10_14	My parent(s)/guardian(s) limit areas
		My parent(s)/guardian(s) put limits
	Npmon11_14	strangers, etc.).
		In the past 4 months, how often hav
	Ntmon2_14	Put time limits on video games (con
	Ntmon3_14	Put time limits on the internet
	Ntmon8_14	Checked my social media profiles
	Ntmon4_14	Put time limits on using a cell phone
	N. 14 4	How often have you done the follow
	-	My parent(s)/guardian(s) taught me
	Nmst2_14	My parent(s)/guardian(s) told me th
		My parent(s)/guardian(s) told me w
	Nmst3_14	group.
	N	How much do you agree with the fo
Skipped for White students	Nmst4_14	My parent(s)/guardian(s) want me t
	Skipped for White students	Nea2_14 Nhome1_14 Nhome2_14 Nhome3_14 Nas4_14 Nas6_14 Nas8_14 Npmon1_14 Npmon2_14 Npmon3_14 Npmon7_14 Npmon9_14 Npmon9_14 Npmon10_14 Npmon10_14 Npmon11_14 Ntmon3_14 Npmon11_14

	Nmst5_14	Race does not determine how succ
		How often have you done the follow
Humanitarian	Nhum1 14	My parent(s)/guardian(s) tell me it'
	Nhum2 14	My parent(s)/guardian(s) tell me th
	Nhum3_14	My parent(s)/guardian(s) tell me th
Ethnic Identity Scale		
Editine ractionly oddie		In terms of ethnic group, I consider
		For example, Native, Black America
		Korean, Chinese, Portuguese, etc. C
Ethnic Identity	Neth1_14	(write your answer in the box below
	_	How much do you agree or disagree
Belonging	Neth3_14	I have a strong sense of belonging t
	Neth4_14	I understand pretty well what my e
	Neth7_14	I feel a strong attachment towards
Public Regard	Neth8 14	Overall people in my ethnic group a
	Neth9_14	People in this country view people
	Neth10_14	People in this country value the live
		I have spent time trying to find out
Exploration	Neth2_14	customs.
	Neth5_14	I have often done things that will he
	Neth6_14	I have often talked to other people
Racialed Experience Scale		How often have the following thing
Educational	Ndsc2_14	I got in trouble with a teacher unfai
	Ndsc3_14	I was discouraged from joining an a
	Ndsc1_14	I was given a lower grade than I des
Institutional	Nidsc2_14	People acted as if they were afraid
	Nidsc3_14	People acted as if they thought I wa
	Nidsc5_14	People expected less of me than ot
Peer	Npdsc2_14	Others my age did not include me i
	 Npdsc3_14	I got into a fight because of my race
	Npdsc1_14	I was called a racially insulting name
Law-Enforcement	Nlpdsc1 14	I was treated unfairly by the police
	11169207_71	di carca aman'ı by the police

Interpersonal Online	Nipo1_14	People have said mean or rude thin online.
	Nipo2_14	People have excluded me from a sit
	Nipo3_14	People have threatened me online
Vicarious Online	Nvo1_14	People have cracked jokes about pe
	Nvo2_14	People have said things that were u
	Nvo3_14	I have witnessed people saying mea
Critical Conciousness		How much do you agree or disagree
Critical Reflection: Perceived Inequality	Ncc6_14	Certain racial or ethnic groups have
	Ncc7_14	Women have fewer chances to get
	Ncc8_14	Poor people have fewer chances to How much do you agree or disagree
Critical Reflection:		, · · ·
Egalitarianism	Ncc10_14	It would be good if groups could be
	Ncc12_14	All groups should be given an equal
	Ncc13_14	We would have fewer problems if v
Critical Motivation	Nec2E 14	How much do you agree or disagree
CHUCALIVIOLIVACION	Ncc25_14 Ncc26_14	It is important to correct social and It is important to confront someone prejudiced
	Ncc27_14	It is my responsibility to get involve
	_	In the last year, how often have you
Critical Action: Sociopolitical Participation	Ncc14_14	Participated in a civil rights group o
	Ncc15 14	Participated in a political party, club

	Ncc17_14	Contacted a public official by phone social or political issue
	Ncc18_14	Joined in a protest march, political of
		How often do you talk with your pa
Skipped for White students	Npbs1_14	race?
		When your parent(s)/guardian(s) to
Skipped if Never was selected		
	Npbs2_14	Talk about how they themselves ha
· —	Npbs3_14	Tell you that you need to work hard
	Npbs4_14	Tell you to have faith in God.
· —	Npbs5_14	Encourage you to do your best and,
	Nicker C. 4.4	Fig. 1
	Npbs6_14	Encourage you to stand up for your
	Ninho7 14	Functional values that the bound to not all
· —	Npbs7_14	Encourage you to try hard to get alo
	Nahco 14	Told you it's not your fault when yo
·	Npuso_14	Told you it's not your fault when yo
	Nobel 14	Tell you that not everyone is racist.
· —	Npb33_14	Tell you that not everyone is facist.
	Nnhs10 14	Tell you that your race will not hold
· —	14pb310_14	Tell you that your race will not hold
	Nnhs11 14	Talk about the history of your race.
· —	1100011_11	rain about the motory or your race.
	Npbs12 14	Tell you that people of your race ha
· —		and people of your race ha
	Npbs15 14	Tell you racism is something you wi
Skipped if Never was selected		, , , , , , , , , , , , , , , , , , , ,
for sNpb1_13	Npbs16_14	Tell you different ways in which rac
		My parent(s)/guardian(s) teach me
Skipped for White students	Ncs1 14	around me.
	_	My parent(s)/guardian(s) teach me
Skipped for White students	Ncs2_14	people around me.
		My parent(s)/guardian(s) teach me
Skipped for White students	Ncs3_14	around me.
		How often do you and/or your pare
	Nprsoc6_14	My parent(s)/guardian(s) talk with i
	Skipped if Never was selected for sNpb1_13	Skipped for White students Skipped if Never was selected for sNpb1_13 Npbs10_14 Skipped if Never was selected for sNpb1_13 Npbs10_14 Skipped if Never was selected for sNpb1_13 Npbs10_14 Skipped if Never was selected for sNpb1_13 Npbs15_14 Skipped for White students Ncs1_14 Skipped for White students Ncs2_14 Skipped for White students Ncs3_14

		Nprsoc7 14	My parent(s)/guardian(s) talk with a overcome.
		110.000	My parent(s)/guardian(s) take me t
	Skipped for White students	Nprsoc8_14	race.
	Skipped for White students	Nprsoc9_14	We watch movies that have good o
		Nprsoc10_14	We listen to music from members of
		Nprsoc11_14	We attend a church/place of worsh
	Skipped for White students	Nprsoc12_14	We attend cultural groups or progra
		Nprsoc1_14	My parent(s)/guardian(s) tell me ab
			My parent(s)/guardian(s) tell me th
		Nprsoc2_14	history.
		Nprsoc16_14	My parents have me participate in i
			How much do you agree with the fo
			My parent(s)/guardian(s) teach me
		Nrsoc5_14	in school.
		Nprsoc13_14	We observe holidays that are impo
		Nprsoc17_14	We attend family reunions where p
			How many books or e-books do you
	Skipped for White students	Nprsoc14_14	your racial group?
			How much professional art do you l
	Skipped for White students	Nprsoc15_14	racial group?
Student Engagement			
Cognitive Engagement		Ncog2_14	I look over my schoolwork and mak
		Ncog3_14	I keep trying when I get stuck on my
		Ncog6_14	I figure out what I did wrong when I
		Ncog5_14	I give up right away when I don't un
Behavioral Engagement		Nbeh2_14	I always try my best in school.
		Nbeh3_14	I contribute to what we are doing in
		Nbeh4_14	I ask questions when I don't unders
		Nbeh14_14	I get involved in school activities (e.
		Nbeh6_14	I goof off during work time in class.
Aff all a Farancian		N-54 4 4	Date of the self-street set to
Affective Engagement		Naf1_14	Doing well in school is important to
		Naf4_14	I am happy at school.
		Naf5_14	I am proud of my school.
		Naf6_14	I am interested in what we are lear
Peer Racial Socialization			How often do you and your FRIEND
	12/12- Added prompt "How		
Peer Cultural Socialization	often do you and your	Npcs1_14	Your FRIENDS/PEERS talk to you abo

	FRIENDS/PEERS do the		
	following things?"		
		Npcs2_14	Your FRIENDS/PEERS talk about hov Your FRIENDS/PEERS listen to music
		Npcs4_14	background .
		Npcs5_14	Your FRIENDS/PEERS participate in
		_	How often do you and your FRIEND
	12/12- Added prompt "How		
	often do you and your		
	FRIENDS/PEERS do the		Your FRIENDS/PEERS give you strate
Peer Preparation for Bias	following things?"	Nppbs3_14	unfairly because of your race/ethni
Peer Preparation for bias	Tollowing things:	Mhhn22_14	•
		21 1 - 2 - 2 - 2 - 2	Your FRIENDS/PEERS have supporte
		Nppbs4_14	because of your race/ethnicity?
			Your FRIENDS/PEERS have stood up
		Nppbs5_14	your race/ethnicity?
			How often do your FRIENDS/PEERS
		Nppbs2_14	your race/ethnicity?
Emotion Socialization			Think about the past year, and for e
Lillotton oo saa			If I ever became angry because I wa
Minimizing Reactions		Nesmr1 14	parent(s)/guardian(s) would have: 1
Willimizing neactions		ING2IIII T_T-	· · · · · · · · · · · · · · · · · · ·
			If I lost some prized possession (jew
		Nesmr2_14	my parent(s)/guardian(s) would have
			If I worked hard on a test or assignr
			disappointed and upset about it, m
		Nesmr3_14	deal out of the grade
			If I was about to have a performand
			watching me, my parent(s)/guardia
		Nesmr4_14	performance
			If I had received a birthday gift I did
			presence of that friend, my parent(
		Nesmr5 14	deal of it
		NC3IIII 3_1-1	If I had ever become upset because
		Nesmr6 14	have: Told me not to make a big de
		Mezilli o_14	flave. Tolu file flot to make a big de
			.c.
- II for all Department			If I ever became angry because I wa
Problem-focused Reactions	/	Nespr1_14	parent(s)/guardian(s) would have: I
			If I lost some prized possession (jew
		Nespr2_14	my parent(s)/guardian(s) would have
			If I worked hard on a test or assignr
			disappointed and upset about it, m
		Nespr3_14	me with studying so that I can do be
			, 5

	Nespr4_14 Nespr5_14 Nespr6 14	If I was about to have a performance watching me, my parent(s)/guardia get ready for my turn (e.g., to do so If I had received a birthday gift I did presence of that friend, my parent(exchanged for something I want If I had ever become upset because have: Helped me think of ways to re
Motivational Beliefs	· -	·
Intelligence Mindset	Nimd1_14 Nimd2_14 Nimd3_14 Nimd4_14 Nimd5_14	You have a certain amount of intellito change it. No matter who you are, you can sig level. No matter how much intelligence (so To be honest, you can't really change You can learn new things, but you can't smartness).
Delayed Gratification	Ndg1_14 Ndg2_14 Ndg3_14 Ndg4_14	I finish my homework before I do the I don't answer my phone when I'm I stay home if I need to study, instead I keep doing my homework, even if
Big 5 Personality Factors Related to Learning - Conscientiousness	Nbig3_14 Nbig7_14 Nbig11_14 Nbig15_14	I am organized and neat. I take my time to get things right. I plan things ahead. I think before I I show up on time.
Emotion Socialization		Think about the past year, and for e
Emotion-focused Reactions	Neser1_14 Neser2_14 Neser3_14	If I ever became angry because I wan parent(s)/guardian(s) would have: I missing the event If I lost some prized possession (jew my parent(s)/guardian(s) would have If I worked hard on a test or assignated and upset about it, my make me feel better If I was about to have a performance watching me, my parent(s)/guardian
	Neser4_14	relaxing so that my nervousness wo

	Neser5_14 Neser6_14	If I had received a birthday gift I did presence of that friend, my parent(thinking of something fun to do If I had ever become upset because have: Comforted me and tried to ge
Francosino Francosco	Nesset 14	If I ever became angry because I wa
Expressive Encouragement	Nesee1_14	parent(s)/guardian(s) would have: E If I lost some prized possession (jew
	Nesee2_14	my parent(s)/guardian(s) would hav If I worked hard on a test or assignr
	Nesee3_14	disappointed and upset about it, my about my feelings of disappointmer If I was about to have a performand watching me, my parent(s)/guardia
	Nesee4_14	feelings
		If I had received a birthday gift I did presence of that friend, my parent(
	Nesee5_14	disappointed feelings
	Nesee6_14	If I had ever become upset because have: Encouraged me to talk about
School Climate		When answering the following gues
Interracial Climate	Niro1 14	When answering the following ques
interraciai Climate	Nirc1_14	Teachers encourage students to ma Teachers here like students of diffe
	Nirc2_14	other
	Nirc3_14	My school recognizes holidays of di
	Nirc4_14	I talk to students of different racial/
Support for Cultural		
Pluralism	Ncult3_14	At my school, I get to do things that
		How often does the following happe
Consistency and Clarity of		
Rules	Ncons1_14	If some students are acting up in cla
	Ncons2_14	When teachers make a rule, they m
	Ncons3_14	Students are given clear instruction
	Ncons4_14	Students understand what will happ
		How often does the following happe
Fairness	Nfair1_14	When students break rules, they ar
	Nfair2_14	The rules at my school are fair to ev
	Nfair3_14	Students get kicked out of class for
	Nfair4_14	Teachers treat students of certain g
		Please select how often the followin

School Belonging	Nschb2_14	I feel like a real part of this school.
	Nschb3_14	I feel like an outsider in this school.
	Nschb4_14	People in my school accept me.
		For the questions below, decide hov
Safety (Subscale 3)	Nsaf10_14	How often do you feel safe while in
	Nsaf11_14	How often are you afraid that some
	Nsaf12_14	How often are you afraid that some
		Please indicate how much you agre
Caring Relationships with		
Adults	Ncra1_14	At my school, there is an adult who
	Ncra2_14	At my school, there is an adult who
	Ncra3_14	At my school, there is an adult who
	Ncra4_14	At my school, there is an adult who
	Ncra5_14	At my school, there is an adult who
		In the past 12 months, have you
Bullying and Discrimination	Nbd1_14	Had mean rumors or lies spread a
	Nbd2_14	Been harassed or bullied by other
	Nbd7_14	Been harassed or bullied by other
		Been harassed or bullied by other
	Nbd8_14	family has?
		In the past 12 months, have you be
		because of
	Nbd10_14	your weight
	Nbd11_14	how much money your family has
		In the past 12 months, have you be
	Nbd13_14	your weight
	Nbd14_14	how much money your family has
		Please indicate how much you agre
Institutional Trust	Ntrs1_14	I am treated fairly by teachers and o
	Ntrs2_14	My teachers at my school have a fa
		Students in my racial group are trea
	Ntrs3_14	school.