Social Integration and the Mental Health of Black Adolescents

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The influence of family, school, and religious social contexts on the mental health of Black adolescents has been understudied. This study used Durkheim’s social integration theory to examine these associations in a nationally representative sample of 1,170 Black adolescents, ages 13–17. Mental health was represented by positive and negative psychosocial well-being indicators. Results showed that adolescents’ integration into family and school were related to better mental health. In addition, commitment to religious involvement positively influenced mental health. Although the direct effect of religious involvement was inversely related to mental health, mediation analyses revealed a positive influence through religious commitment. Findings suggest a greater emphasis on all three social contexts when designing strategies to improve the mental health of Black adolescents.

Adolescence is a critical developmental period characterized by biological, cognitive, and psychosocial changes (Crockett & Petersen, 1993). Although most young people negotiate this life stage without serious difficulty (Loh & Wragg, 2004), the literature acknowledges a persistence of adverse social and psychological development trajectories for today’s generation of U.S. adolescents (Kessler et al., 2012). Among adolescents, Black adolescents could be considered an especially vulnerable subpopulation. Greater psychiatric problems (e.g., anxiety) and higher rates of comorbidity have been reported among this group compared to their White or Hispanic counterparts (Chen, Killeya-Jones, & Vega, 2005). Kessler et al. (2012) reported a slightly higher prevalence rate of any disorder (e.g., mood, impulse disorders) for non-Hispanic Black adolescents (46%) in relation to non-Hispanic White adolescents (42%). Given their lower representation in mental health research (U.S. Department of Health and Human Services, 2001), there is also less information about the mental health of this group.

Researchers have called for a reduced emphasis on mental illness and increased scientific attention to understanding positive mental health outcomes, particularly among adolescents (Loh & Wragg, 2004). Mental health has been traditionally used as a proxy for the absence of mental illness (Smith, 1959). However, empirical research supports the argument that, conceptually, absence of illness alone does not imply well-being. For example, Harker (2001) found that depression and positive well-being are separate constructs, such that low levels of depression did not ensure higher levels of positive well-being. Similarly, Keyes (2006) reported that adolescents who were flourishing, defined as exhibiting positive emotions and functioning, had lower levels of depression and conduct issues as well as higher levels of psychosocial functioning (e.g., self-concept). Kazdin (1993) argued that mental health incorporates “the absence of dysfunction in psychological, emotional, behavioral, and social spheres … optimal functioning or well-being in psychological and social domains” (p. 128). More
recently, the World Health Organization (WHO) defined mental health as:

> a state of well-being in which the individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively and fruitfully, and is able to make a contribution to his or her own community. (WHO, 2010, p. 1)

These conceptualizations of mental health underscore the inclusion of positive psychosocial well-being factors such as high self-concept, mastery, and successful coping and problem solving. Consequently, for this study, mental health will be conceptualized as both the presence of positive psychosocial well-being and the absence of or lower psychosocial dysfunction.

Personal, social, cultural, economic, and broader environmental factors have the potential to impact adolescent mental health (Rowling, 2006). Developmental adjustment and functioning in children and adolescents are shaped by constant interactions with others in family, peer, community, and larger cultural environments (Knopf, Park, & Mulye, 2008). These social contexts within which an adolescent is embedded are their primary sources of social integration. This includes contexts such as family, school, and religion (Maimon & Kuhl, 2008). Thus, social integration is defined, in this study, as the level of adolescent involvement with and attachment to their primary and extended family, schools, and religious institutions. Employing Durkheim’s theoretical framework, the purpose of this study is to examine how these three key domains of social integration influence the mental health of Black adolescents using a nationally representative sample. Durkheim’s theory is discussed, followed by a review of the literature on family, school, and religion in relation to adolescent psychosocial well-being.

**Durkheim’s Social Integration Theory**

Durkheim’s theory recognizes that individuals are social beings whose lives are immeasurably shaped by the nature of their social relationships. Although Durkheim’s work focused on macrolevel influences on suicide, the theory postulates that weak attachments to societal institutions result in lower psychosocial well-being, and stronger attachments and shared values and goals among members of a social group, derived from the quantity and intensity of their interaction, foster well-being (Durkheim, 1951; Thorlindsson & Bjarnason, 1998). Social integration incorporates two main ideas. First, the theory postulates that a sense of control or adherence to societal norms is a guide for appropriate human interaction (Durkheim, 1951). This proposition suggests that the greater the attachment to the social group, the more the individual will conform to the norms within the group, not only as a guide for their behavior but also to sustain the affective ties of those important relationships (Stark & Bainbridge, 1996). The theory secondarily suggests that cohesive group arrangements, developed through positive and consistent exchanges and interaction among members, encourage an atmosphere of support and constructive attachments among group members, consequently leading to better individual psychosocial well-being outcomes. Conversely, lack of these exchanges or weak levels of social integration among group members can be the basis for disconnection, leading to negative individual psychosocial well-being outcomes. Consistent with the theory’s postulations, Durkheim suggested that better well-being, namely, lower inclination toward suicide, is due to membership in family groups, where there are strong attachments, consistency of interaction, and supportive relationships (Durkheim, 1951; Thorlindsson & Bjarnason, 1998). Similarly, he maintained that religion creates social integration due to its ability to foster a more intensive collective life, resulting in better psychosocial well-being outcomes (Durkheim, 1951). Building on Durkheim’s work, Hirschi (1969) identified four key integrative functions (attachment, commitment, involvement, and belief) that characterized the social bond. Applying this framework to schools, he argued that adolescents with higher levels of attachment or commitment to school and school activities should exhibit less of a propensity toward delinquent behavior (Hirschi, 1969). Using Durkheim’s latter supposition, this study proposes that the closer, and more supported, involved, and committed adolescents are to their family, school, and religious developmental contexts, the greater the integration into those social contexts.

**Family**

The family is considered the chief socialization context during a child’s formative years and is thought to have significant implications for the development of psychosocial well-being beyond the childhood years (Grusec, 2011). Within Black communities, family includes the extended family structure (biologically related and fictive kin) that
adolescent mental health while considering other important developmental contexts.

School

Schools have been cited as the second strongest socializing influence after family (Simons-Morton, Crump, Haynie, & Saylor, 1999), suggesting its critical role in the process of adolescent development. Indeed, most adolescents spend a significant portion of their day in school settings that afford them the opportunity to develop relationships with peers and other adults, and engage in both classroom and other school-based activities (Feldman & Matjasko, 2005). School engagement or a student’s school experience is often measured across affective, behavioral, and cognitive domains (Jimerson, Campos, & Greif, 2003). Both affective and behavioral components of a student’s school experience are important to an examination of psychosocial outcomes (Johnson, Crosnoe, & Elder, 2001). Consistent with Hirschi’s (1969) delineation of school integrative processes, student’s attachment (affective) and involvement or investment in schools (behavioral) are further explored here.

School bonding is a central element of the affective domain of school integration. Catalano, Haggerty, Oesterle, Fleming, and Hawkins (2004) contend that when an adolescent is bonded to school, their behavior becomes more consistent with the norms and values of the school. Conceptually, aspects of bonding to school, such as positive relationships with teachers and other school staff, may provide a supportive context within which adolescents can experience successful emotional, behavioral, and academic adjustments (Murray & Greenberg, 2000), and develop positive coping and adaptive mechanisms (Resnick et al., 1997), which in turn may foster better psychosocial outcomes. However, more research is needed to confirm these positive associations. The available literature shows that school bonding, connectedness, or integration has been related to better well-being and lower disorder (Murray & Greenberg, 2000) and fewer incidences of suicidal behavior (Maimon & Kuhl, 2008). Specifically, Murray and Greenberg (2000) found that students who reported better relationships with teachers and more positive school experiences had greater social and emotional adjustment (e.g., general social competence) and reduced negative adjustment scores (e.g., depression, conduct problems).

Both academic grades and school-based extracurricular involvement (e.g., sports, clubs) represent important behavioral components of school integration,
which are viewed as observable actions or performance. Activities such as completion of homework, grades, and scores on achievement tests (Jimerson et al., 2003) may be indicative of an adolescent’s investment in school (Maddox & Prinz, 2003), and subsequently their integration into the school environment (Maimon & Kuhl, 2008). The relation between academic activities and mental health has been documented (e.g., Roeser, Eccles, & Freedman-Doan, 1999). Although the associations are potentially reciprocal in nature, Hoge, Smit, and Hanson (1990) noted the positive influence of schoolwork and grades on aspects of well-being such as self-esteem.

In the context of adolescent development, involvement in structured, productive activities promotes prosocial behavior and a sense of group identification, and fosters and enhances new skills and interests, resulting in present and future academic and career successes and protection against risk-related actions (Eccles, Barber, Stone, & Hunt, 2003). Furthermore, engagement in extracurricular activities may provide adolescents a constructive outlet for self-expression and identity development (Feldman & Matjasko, 2005) and affords adolescents the opportunity to develop meaningful relationships with adults and peers in a positive setting outside of the classroom (Fredricks & Eccles, 2005; Mahoney, Cairns, & Farmer, 2003). Fredricks and Eccles (2005) reported that extracurricular participation was related to more favorable psychological adjustment among high school students. Specifically, the authors found that participation in activities such as student government, cheerleading, or the pep club promoted a greater sense of self-worth and lower depressive symptoms. School activity participation has also been positively associated with self-esteem (Perry-Burney & Takyi, 2002) and increased interpersonal competence across adolescence (Mahoney et al., 2003), and inversely related to social isolation (Barber, Eccles, & Stone, 2001). In summary, we contend that school behavioral activities are thought to influence adolescent psychosocial well-being through processes related to either a reduced sense of isolation or greater connectedness, or both.

This review of the literature reveals that both the behavioral and affective dimensions of school integration are related to mental health problems and well-being. These findings support Durkheim’s theory that the more socially connected an individual feels, the less emotional distress he or she experiences, thus lowering the risk for adverse psychosocial outcomes.

Religion

The behavioral and affective dimensions of religion explored in this study have been adapted from research in health sociology and are consistent with a large body of work demonstrating that religious participation and subjective religiosity are inversely related to mental health issues such as rates of suicide, anxiety disorders, depression, and substance use (Koenig, McCullough, & Larson, 2001). Religion has been positively associated with various measures of psychological well-being, positive psychosocial traits, and self-regarding attitudes (e.g., optimism, self-esteem; Koenig et al., 2001). As the research has focused primarily on adults, exploring the nature and extent of religious participation and salience among Black adolescents is an important step in furthering our understanding of the influence of religion on their mental health. This is particularly significant as studies have found that Black adolescents typically attend church often, place a high value on religion, and utilize religion as coping and social support resources during times of crisis (Donahue & Benson, 1995).

Religion has been noted as an important socialization influence for adolescents supporting positive developmental outcomes and protecting against negative functioning and behavior (Ball, Armistead, & Austin, 2003; Wallace & Forman, 1998). Specifically, participation in religious organizations is postulated to promote a sense of shared values and beliefs, positive social connections, and an exchange of caring and support (Milot & Ludden, 2009; Schnittker, 2001). In turn, this may foster coping mechanisms that help adolescents successfully handle typical as well as difficult life experiences. Some religion researchers conceptualize the institution as a social control mechanism (Regnerus, 2003), consequently deterring its participants from engaging in risky or deviant behavior. Within this conceptualization, individuals conform to the values and norms of acceptable behavior, and the moral standards of the religious group. Through regular participation, communication, and interaction among group members, these values and norms are reinforced, thereby reducing the risk of opportunity and proclivity to engage in problem behaviors, and protecting against negative psychological functioning (Milot & Ludden, 2009).

Among adolescents, religious involvement has been positively related to psychosocial well-being outcomes such as general self-esteem (Ball et al., 2003) and life satisfaction (Mosher & Handal, 1997). Ball et al. (2003) observed that the highest
levels of self-esteem were found among those who attended church a few times a month. Interestingly, the same study also reported that the lowest levels of self-esteem were found in adolescents who attended nearly every day and who never attended. Milot and Ludden (2009), however, reported no significant associations between church attendance or religious youth group involvement and general self-esteem. Religious involvement has also been related to lower suicide ideation and attempts (Donahue & Benson, 1995), psychological distress (Nonnemaker, McNeely, & Blum, 2003), and depressive symptoms (Harker, 2001; Schapman & Inderbitzen-Nolan, 2002). Harker (2001) found that adolescents are protected against high levels of depression when they attend church more often. In the same study, frequency of prayer, which is more of a salience or subjective dimension, was related to positive well-being outcomes, whereas church attendance was not. The author notes that the physical presence of supportive adults and others may be the key factor in reducing adverse outcomes. In contrast, more personal connections to religion may promote better well-being (Harker, 2001). This suggests that various aspects of religion may differentially influence adolescent well-being outcomes.

Taylor, Mattis, and Chatters (1999) explain subjective religiosity as attitudes or perceptions toward religion, usually measured by questions about being religious, religious importance, and beliefs in daily religious life. Using a measure of religious importance, Schnittker (2001) found that adolescents who reported moderate levels of importance are less depressed than those for whom religion is very important or not at all important in their daily lives. Welch, Petee, and Tittle (1991) suggest that for adolescents, commitment to religiosity (e.g., Bible study) must be conceptually differentiated from frequency of church attendance, as the latter is often due to parental influence. For instance, in addition to organized religion measures, Schapman and Inderbitzen-Nolan (2002) explored a newer concept in the mental health and religion literature by examining a dimension of religiosity that accounts for adolescent desire to participate in religious activities versus being forced to participate. They reported correlations between a greater desire to participate and lower depressive symptoms (e.g., lower inter-personal distress scores). The authors further noted that variation within this construct may influence the association between actual participation and mental health and highlighted the importance of addressing this possibility in future studies.

This research supports Durkheim’s theoretical postulations that connection to a religious collective life is related to lower mental health problems and better psychosocial well-being outcomes. Schnittker (2001) emphasized that the two most salient products of religious integration are indicators of attendance at religious services and individual religious salience. As adolescents may indeed be attending due to parental force or influence, it is important to conceptually distinguish and operationally define actual attendance and participation from more subjective aspects of religiosity like importance of participation or desire to attend. Therefore, in this study, and consistent with Schapman and Inderbitzen-Nolan’s (2002) propositions, both religious involvement (e.g., attendance) and commitment (e.g., self-directed choice to attend) will be examined as separate but related aspects of religious integration. In addition, we will examine the influence of commitment on the link between religious involvement and adolescent psychosocial well-being.

The Current Study

Family, school, and religion are three important social contexts in the lives of adolescents. From a Durkheimian perspective, positive involvement and attachments to these important socialization agents can facilitate a supportive and constructive atmosphere for adolescents, thereby contributing to optimal psychosocial well-being as well as serving as a protective influence against adverse psychosocial well-being. The review of the literature revealed that less information was available about how these social contexts fostered the well-being of adolescents in general and for Black adolescents in particular. Indeed, Black adolescents were minimally represented in much of the literature examining psychosocial well-being, indicating a key gap in the literature. This study is designed to address those gaps and to test the overarching hypotheses that family, school, and religious integration are significantly related to the mental health of Black adolescents. Specifically, we hypothesize that positive psychosocial well-being will be significantly predicted by higher family, school, and religious integration. Similarly, we expect that negative psychosocial well-being will be significantly predicted by lower family, school, and religious integration. We also expect that religious commitment will significantly mediate the association between religious involvement and the psychosocial well-being outcomes.

The study has a number of potential strengths. First, much of the previous literature utilized either
large probability samples of adolescents overall or smaller, more homogeneous samples of subgroups of adolescents to examine mental health outcomes among adolescent populations. Subsequently, our understanding of the developmental experience of Black adolescents in relation to factors that foster optimal mental health outcomes has been limited. For this study, we use a large nationally representative sample of Black adolescents which helps to address the limited representation of Black adolescents in previous mental health research, subsequently increasing our knowledge about the mental health of this adolescent subgroup. Second, consistent with more recent definitions of mental health, we examine the construct using a broader conceptualization. For our research, mental health is represented by both the presence of positive psychosocial well-being indicators and the absence of or lower psychosocial dysfunction. Third, we utilize multiple measures of each aspect of social integration to explore the concomitant impact of family, school, and religion on the psychosocial well-being of Black adolescents. Previous studies have examined the discrete effects of family, school, and religion on the developmental context of adolescents in general; however, few studies explicate how these social contexts function together, within a system of interrelationships, to impact Black adolescent well-being outcomes. Fourth, we examine religious commitment and the potential role of this construct in mediating the link between religious involvement and the well-being outcomes. The direct effect of involvement has been established among adults, but is equivocal among adolescents. This study will test the direct and indirect effects of religious involvement among Black adolescents.

Method

Study Design and Sample

This research is a secondary analysis of the adolescent sample of the 2001–2003 National Survey of American Life (NSAL; Jackson et al., 2004), conducted by researchers at the Program for Research on Black Americans through the University of Michigan’s Institute for Social Research. The NSAL is an IRB-approved nationally representative household survey, providing extensive data on mental disorders and the mental health of adult Americans of African ancestry. The NSAL utilized a stratified and clustered sample design to obtain a nationally representative sample of 3,570 African American (AA), 1,006 non-Hispanic Whites, and 1,621 Blacks of Caribbean descent (CBs) aged 18 years and older (see Jackson et al., 2004, for more detailed information about the NSAL). To generate the NSAL–A, every AA and CB household that included an adult participant in the NSAL was screened for an eligible adolescent living in the household, and adolescents were selected using a randomized procedure. If more than one adolescent in the household was eligible, up to two adolescents were selected for the study, and if possible, the second adolescent was of a different gender (Joe, Basal, Neighbors, Caldwell, & Jackson, 2009). The NSAL–A weight was designed to adjust for variation in probabilities of selection within households, and nonresponse rates for adolescents and households. The weighted data were poststratified to approximate the national population distributions for gender (male and female subjects) and age (13-, 14-, 15-, 16-, and 17-year-olds) subgroups among Black youth (Joe et al., 2009). The weighting process allows us to make accurate inferences about the national population of Black youth. The sample design and weight characteristics classify the NSAL–A as a complex sample survey.

Before the interview, informed consent and assent were obtained from the adolescent’s legal guardian and adolescent, respectively. Trained interviewers used a computer-assisted instrument to conduct most of the interviews in the adolescents’ homes. In addition, about 18% were conducted either in part or fully by telephone. Respondents were paid $50 for their participation in the study; the overall response rate was 80.6% (80.4% for AAs and 83.5% for CBs). Only AA and CB adolescents were interviewed. The original adolescent sample consisted of 1,193 cases, but 23 were dropped from analyses because they were 18 or older at the time of the interview. Consequently, the resulting analysis sample consisted of 1,170 AA (n = 810) and CB (n = 360) youth ranging in age from 13 to 17 years (Joe et al., 2009).

Measures

Mental Health (Positive Psychosocial Well-Being)

This construct comprised three indicators: self-esteem, active coping, and mastery. Self-esteem was measured by the 10-item Rosenberg Self-Esteem Scale (Rosenberg, 1965), with items such as, “On the whole, I am satisfied with myself.” A 4-point response set was used ranging from 1 (strongly agree) to 4 (strongly disagree). Positively worded items were reverse coded. Higher scores indicate
better self-esteem ($\alpha = .72$). The John Henryism Scale (James, 1996) is a 12-item measure of high effort coping, with items such as, “Hard work has really helped me to get ahead in life.” Responses were measured on a 4-point scale ranging from 1 (completely true) to 4 (completely false). Each item was reverse coded. Higher scores represent greater levels of active coping ($\alpha = .71$). The seven-item Pearlin’s Mastery Scale (Pearlin & Schooler, 1978) assesses individuals sense of control over their lives. A sample item from the scale is, “I can do just about anything I set my mind to.” A 4-point response set was used ranging from 1 (strongly agree) to 4 (strongly disagree). Positive items were reverse coded. Higher mean scores indicate greater mastery ($\alpha = .68$).

**Mental Health (Negative Psychosocial Well-Being)**

This construct included two indicators: perceived stress and a summary variable measuring lifetime diagnosis of adolescent mental disorder. The Cohen’s Perceived Stress Scale (Cohen, Kamarck, & Mermelstein, 1983) measures individual appraisal of situations in their life as stressful. A sample item from the scale is, “In the last month, how often have you felt nervous and stressed out?” The scale consists of 14 items, and rating items include responses ranging from 1 (never) to 5 (very often). Positively worded items were reverse scored. Higher scores suggest greater levels of perceived stress ($\alpha = .77$). To measure mental disorders, adolescents completed a diagnostic interview using a modified version of the World Mental Health Composite International Diagnostic Interview (WMH-CIDI) based on the World Health Organization Composite International Diagnostic Interview (WHO–CIDI) (Kessler & Ustun, 2004). In this study, the lifetime diagnosis summary variable ($0 = \text{no disorder}, 1 = \text{one or more disorders}$) was used to indicate whether respondents met the criteria for any anxiety, mood, impulse, substance abuse, or eating disorder.

**Family Integration**

This construct included three indicators: anticipated family support, family closeness, and family communication. The three-item Anticipated Support Scale uses a 4-point response set with items ranging from 1 (a great deal) to 4 (none). A sample item asks adolescents, “If you were sick, how much would the people in your family be willing to help out?” Items were all reverse scored so that higher mean values indicate greater anticipated support ($\alpha = .72$). Family closeness was measured by a question asking adolescents how close they feel to family members. Higher scores represent greater closeness to family. Frequency of communication with family or relatives not residing with the adolescent was measured by the question, “How often do you see, write, and talk on the telephone with, or e-mail family or relatives who do not live with you?” Higher responses indicate greater levels of communication with extended family. All family integration indicators were derived from the National Survey of Black Americans (NSBA; Jackson & Neighbors, 1997).

**School Integration**

School bonding, school activity participation, and grades are included as representations of the affective and behavioral aspects of school integration. The nine-item School Bonding Scale measures adolescent affective connection and attitude toward school. A sample item from the scale is, “Most of my teachers treat/ed me fairly.” Responses were measured on a 4-point scale ranging from 1 (very true) to 4 (not at all true). Positively worded items were reverse scored. Higher scores represent greater bonding to school ($\alpha = .71$). The school-based extracurricular activity measure asked adolescents the number of years they participated in each of five categories of school-based extracurricular activities (sports teams other than gym; band, orchestra, or chorus; student newspaper or yearbook; student council or honor society; and any other school clubs, teams, or organizations). Each activity category was recoded and a new variable computed to form an activity score ranging from 0 (no activity participation) to 5 (participation in all activities). Grades were measured by asking the adolescent about the kind of grades they usually receive: mostly A’s, mostly B’s, mostly C’s, mostly D’s, or mostly failing grades. All school integration indicators were derived from the National Comorbidity Survey: Adolescent Supplement (NCS–A; Kessler, 2011).

**Religious Integration**

Religious attendance and participation comprised the first latent construct of religious integration. Indicators of involvement included church attendance, participation during church service, and church-related activities. Religious service attendance was measured by the question, “How often do you usually attend religious services?” Participant responses ranged from 1 (nearly every day—4 or more times a week) to 6 (never). Responses
were reverse coded such that higher numbers represent greater church attendance. Religious service participation was measured by the question, “Do you do things like sing in the choir, read scripture, or other things like that during service?” The variable was recoded such that 0 = no service participation and 1 = service participation. Adolescent participation in activities at a religious institution, outside of church service, was measured by the question, “Besides regular services, how often do you take part in other activities at your place of worship?” Responses ranged from 1 (nearly every day—4 or more times a week) to 5 (never). The variable was recoded and higher numbers represent greater participation. Religious commitment represented the second religious integration latent construct. Indicators include choice to attend religious services and choice to participate in church-related activity. Both items asked if adolescents attended or participated in services or activities because they wanted to or because their parents or guardians made them go. Participants responded: 1 (choose), 2 (parents/guardians make you go), or 3 (both). Responses were recoded so that higher values represent adolescent self-directed choice to attend and lower numbers represent the parent making the adolescent attend. All religion questions were derived from the NSBA (Jackson & Neighbors, 1997).

Control Variables

Age (treated as a continuous variable), gender, ethnicity (AA or CB; based on the adult in the household), and income (based on the adult report of family income) are included as relevant controls. Income was recoded into four categories: 1 = $0–17,999, 2 = $18,000–31,999, 3 = $32,000–54,999, and 4 = $55,000 and above.

Analytic Strategy

Chi-square tests of association were used to examine categories of demographic characteristics by ethnicity. Analyses were conducted using the complex sample module of SPSS Statistics 19 (IBM, Armonk, NY). Structural equation models (SEMs) were used to test the effects of the integration variables on the psychosocial well-being outcomes. A two-step procedure was employed for SEM model development (Kline, 2005). First, a six-latent-factor measurement model was specified to assess the adequacy of the observed indicators as measures of their respective latent factors. The second step involved assessment of the structural model fit and analysis of the structural relations, controlling for the sociodemographic variables. The structural model was specified with direct paths from control variables to latent factors and direct paths from the family, school, and religion factors to both mental health factors. A path from religious involvement to religious commitment was included to examine the indirect effect of religious involvement on the psychosocial well-being factors. Evaluation of all hypothesized effects was made using the most parsimonious final model with all nonsignificant paths from controls to latent factors and nonsignificant covariances set to zero. All missing data were coded -999, the full sample of 1,170 was retained, and the raw data file was utilized for analysis. The models were estimated using Mplus Version 6.12 (Muthén & Muthén, 1998–2010), which accounts for the complex sample survey design and uses a robust weighted least squares approach (WLSMV) to estimate latent variables with both continuous and categorical indicators. With this estimator, the data missing methodology is pairwise present and the categorical data methodology handles any floor or ceiling effects for categorical outcomes (Muthén & Muthén, 1998–2010). Estimates of the indirect effects and corresponding delta method standard errors were computed in Mplus; these were examined to confirm mediation (MacKinnon, Lockwood, Hoffman, West, & Sheets, 2002).

Model fit was evaluated by examining the chi-square statistic, comparative fit index (CFI), and root mean square error of approximation (RMSEA). The chi-square statistic is sensitive to larger sample sizes and may be significant even with a small discrepancy between the observed and model-implied covariances (Kline, 2005), thus the normed chi-square (NC; i.e., $\chi^2/df$) will also be included. Acceptable model fit criteria included a nonsignificant model $\chi^2$ value, NC ratio $<2$, CFI above .90, and RMSEA $\leq .08$ (Kline, 2005; Tabachnick & Fidell, 2007).

Results

Descriptive Findings

Table 1 displays the findings of the chi-square analyses examining the sample’s demographic characteristics. Statistical significance for this analysis is based on the design-adjusted $F$ and its degrees of freedom. Results revealed that there was a significant difference in age between AA and CB adolescents. There is a larger number of 13-year-old AA (20.8%) compared to CB (10.6%) adolescents. Conversely, more CB adolescents (28.3%) are in the 15-year-old age group than AA adolescents (20.0%).
Although not statistically significant, there are a slightly greater percentage of CB female adolescents than any other male or female group.

Measurement Model

Preliminary data analysis supported the six-factor model as proposed in the hypothesis as the best model for further analysis. The six-factor model (Figure 1) had an acceptable fit to the data, $\chi^2 (df = 89) = 143.058$, $p < .001$, $NC = 1.61$, $CFI = .942$, $RMSEA = .023$, 90% CI [0.016, 0.030]. All standardized factor loadings were .31 or greater and statistically significant ($p < .001$), suggesting that the latent factors significantly predicted their observed outcomes. Factor loadings of .30 or above have been suggested to adequately define a factor (Brown, 2006).

Structural Model

The final structural model reflecting partial mediation was specified with direct paths from control variables to all latent factors; direct paths from family integration, school integration, religious involvement, and religious commitment to both psychosocial well-being variables; and an indirect route from religious involvement to religious commitment to the well-being variables. The model is displayed in Figure 2, with standardized path coefficients. Paths from control variables to latent factors are not displayed. The model had an acceptable fit to the data, $\chi^2 (df = 147) = 230.402$, $p < .001$, $NC = 1.57$, $CFI = .910$, $RMSEA = .022$, 90% CI [0.016, 0.027]. All direct and indirect effects are discussed based on the standardized path coefficients.

Direct Effects of Integration on Psychosocial Well-Being Outcomes

Family integration, school integration, and religious commitment were significantly associated with positive psychosocial well-being and negative psychosocial well-being in the hypothesized directions. School integration was the strongest predictor of both psychosocial well-being outcomes. Unexpectedly, a significant but inverse direct path was observed between religious involvement and positive psychosocial well-being, suggesting that the lower the religious involvement, the greater the positive psychosocial well-being. Similarly, a significant positive path was found between lower religious involvement and lower psychosocial well-being. Forty-five percent of the variance in positive psychosocial well-being and 35% of the variance in negative psychosocial well-being was due to family, school, and religion, and any significant controls.
Indirect Effects of Religious Involvement on Psychosocial Well-Being Outcomes

Religious commitment was hypothesized to mediate the effect of religious involvement on both psychosocial well-being outcomes. A statistical test of the indirect effect formally tests the mediating effect of religious commitment. Partial mediation is said to occur when both the direct and indirect effects are significant. Results revealed a significant positive path between religious involvement and religious commitment (Figure 2). As previously noted, religious involvement and religious commitment were significantly associated with both psychosocial well-being variables. Therefore, there was a significant indirect effect such that religious commitment partially mediated the effect of religious involvement on positive psychosocial well-being (.091, SE = .033, p < .05) and lower psychosocial well-being (−.061, SE = .022, p < .05).

Discussion

Although the influence of family, school, and religious social contexts on the mental health of adolescents has been documented, limited literature has focused on the significance of these contexts for
enhancing better mental health outcomes among Black adolescents. Thus, this study contributes to the advancement of knowledge in a number of ways. First, the study utilized a national probability sample of Black adolescents. This design provides a critical addition to the limited research on factors that promote the mental health of this subgroup of adolescents, previously underrepresented in mental health research. Second, the study used a conceptualization of mental health that incorporates both the presence of positive psychosocial well-being and the absence of or lower psychosocial dysfunction. Mental health, viewed in this way, is consistent with more recent definitions that emphasize the inclusion of positive aspects of well-being and underscore the importance of indicators that represent well-being and dysfunction across biopsychosocial spheres (e.g., Kazdin, 1993). Third, the study utilized a statistical analysis procedure that allowed for the simultaneous assessment of family, school, and religion factors in relation to mental health outcomes. Understanding how these factors function within a system of interrelationships provides an important picture of the processes most salient to psychosocial development during the adolescent years. Fourth, the study provided information on a newer concept in the adolescent religion literature that highlights the importance of the religious commitment of adolescents as a means to understand the overall influence of religious integration among this group. Finally, although the study was not a direct test of Durkheim’s social integration theory, it does provide support for the use of the theory to explore the relative importance of these three important social contexts for adolescent well-being. The theory has been traditionally used to explore factors that protect against negative outcomes (e.g., Maimon & Kuhl, 2008). However, we utilized Durkheim’s theory to investigate how integration into key developmental social contexts fosters better psychosocial well-being among Black adolescents.

Overall, study findings support the hypotheses that family, school, and religious integration are significant predictors of better mental health for Black adolescents, with school integration emerging as the strongest predictor of both well-being outcomes. The results also support the hypothesis that religious commitment significantly mediates the association between religious involvement and the psychosocial well-being outcomes.

The findings illustrate that Black adolescents who are more integrated into their family, through closer relationships, expectations of support, and greater communication with their kinship network, experience better psychosocial well-being and less psychosocial dysfunction. Maimon and Kuhl (2008) suggest that stronger affective connections to family lead to a level of emotional stability that maintains its importance beyond the influence of other key adolescent social contexts. Our results are consistent with previous empirical research (e.g., Margolin, 2006) and substantiate the positive influence of greater family closeness, support, and communication on better mental health outcomes among Black adolescents even when considering school and religious factors. The results also make the case that

Figure 2. Final structural model with partial mediation, controlling for significant sociodemographic variables (not shown). Completely standardized parameter estimates are shown. All paths and indirect effects were significant at $p < .05$. Indirect effect from religious involvement to positive psychosocial well-being ($0.091, SE = 0.033, p < .05$). Indirect effect from religious involvement to negative psychosocial well-being ($-0.061, SE = 0.022, p < .05$).
communication with family members, even among kinship networks, might serve to establish, through encouragement and positive reinforcement, a developmental context beneficial to healthy self-esteem and a strong sense of mastery, which are critical for the adolescent as they progress through developmental stages (Erickson, 1968). These findings highlight the importance of continuing to foster closeness and communication between adolescents and their immediate and extended family members in an effort to promote better adolescent psychosocial development.

Current findings support and add to the burgeoning literature on school engagement in that greater integration into school was related to fewer problem outcomes and better psychosocial well-being outcomes. Previous research supports the positive influence of school bonding, grades, and participation on school activities on self-esteem, and social and emotional adjustment (e.g., Murray & Greenberg, 2000). Greater school integration also was related to fewer incidences of poorer well-being (e.g., depression, conduct problems) in the extant literature (e.g., Fredricks & Eccles, 2005). This study adds to the growing body of research on school integration and positive psychosocial well-being outcomes, particularly for Black adolescents. School can be viewed as a key influence in the lives of adolescents secondary to family (Simons-Morton et al., 1999). For adolescents in this study, school integration was reflected by bonding to school (including teachers), involvement in school activities, and school grades. The school environment and relationships formed thereof provide another supportive context within which adolescents can interact with nonfamilial adults, such as teachers or other school staff (e.g., social workers) who may subsequently serve as informal mentors, providing guidance and direction on a variety of issues related to adolescent life. Participation in school activities generates a shared experience with peers and a sense of camaraderie among the adolescent activity group. Activity participation and doing well in school may also contribute to a sense of accomplishment, development of skill, and feeling of mastery over particular aspects of school, which may foster greater self-esteem and less emotional stress. Conversely, adolescents who are less connected to school may be at higher risk for poor psychosocial well-being. The study findings emphasize the importance of assessing school connections and involvement when considering factors that influence adolescent development and specifically support better psychosocial well-being among Black adolescents.

Religious involvement, a behavioral representation of religious integration, provides an opportunity for adolescents to interact and form relationships with positive peers and adults in a supportive environment where there are shared values and beliefs (Milot & Ludden, 2009). It is also an activity typically engaged with family and extended family. These exchanges are a source of well-being, fostering mechanisms that help the adolescent cope with normal as well as challenging situations (Ball et al., 2003; Regnerus, 2003). We sought to understand the influence of religious involvement and commitment on the mental health of Black adolescents, and if religious involvement affected mental health through more of a commitment to religion.

Our findings that higher religious commitment (i.e., adolescent self-directed choice to attend religious services and activities) was associated with greater levels of positive psychosocial well-being and less psychosocial dysfunction are novel. To our knowledge, the only other study to examine the link between religious commitment, conceptualized in this way, and adolescent mental health was the work of Schapman and Inderbitzen-Nolan (2002), who reported that both greater religious activity participation and stronger desire to participate in these religious activities was related to less depressive symptoms (e.g., interpersonal distress) in a small sample of mostly White adolescents. Our results add to the limited literature on subjective religiosity and adolescent mental health, specifically underscoring the importance of adolescent choice or commitment to attend religious services in relation to the mental health of Black adolescents. For these adolescents, religious life may become more important as there are increased opportunities to interact with prosocial peers in an environment where there are consistent values and beliefs (Schnitker, 2001) and reflect their growing sense of independence. This may be at the root of their commitment to attending religious services and their supportive network may be the source of better well-being.

The analysis of the direct effect of religious involvement on both measures of mental health, such that greater involvement was related to lower incidences of positive psychosocial well-being and greater chance of experiencing psychosocial distress, revealed unexpected inverse associations. Although the literature on the impact of religious involvement in the lives of adolescents was somewhat tenebrous, our results were surprising given the importance of religion to Black adolescents (Donahue & Benson, 1995). Ball et al. (2003) did
suggest an inverse association between religious involvement and self-esteem, reporting that the lowest levels of self-esteem were evident for Black female adolescents who attended religious activities in high frequency (e.g., nearly every day). A possible explanation of the unexpected direction for the direct effect of religious involvement may rest with the idea that adolescents are primarily attending religious service activities due to parental influence. As such, it is likely that their physical presence in church is experienced as conforming to group (e.g., family) expectations, which by itself could potentially be a source of distress, given their increase need for autonomy. Although religious attendance might be high due to parental influences, adolescents’ sense of obligation to participate in religious activities would not necessarily encourage a sense of well-being or determination over making personal choices; rather, it may increase their risk for poor psychosocial well-being. We contend that when an adolescent’s religious attendance is high because it is their choice rather than their parent’s influence, we would expect involvement effects to be mediated and in the right direction.

The results of the mediation analysis provided an examination of the noted assumptions. As hypothesized, a significant indirect effect was observed in that the relation between religious attendance and the mental health of Black adolescents was partially mediated by their sense of religious commitment. Specifically, when religious involvement was examined through religious commitment, adolescents who were higher attendees were also more committed, namely, attended church not because of parental influence, but rather their own choice, and this fostered better psychosocial well-being outcomes and reduced psychosocial distress. These findings suggest that for adolescents who are more consistent in their attendance, their commitment to attendance or their affective connections to being in that environment, whether with positive peers or among supportive adults, evinces a greater psychosocial benefit of religious involvement. This idea of commitment or choice to attend, then, is vital to our understanding of the role of religious involvement in the psychosocial development of Black adolescents.

Limitations and Directions for Future Research

Although this study evinced promising results, a number of key limitations must be recognized. First, the study utilized a cross-sectional survey design; consequently, no causal inferences can be made. It is possible that adolescents who have a strong sense of self-worth and feel greater control over their lives may also tend to report a closer relationship with teachers at school or feel confident enough to participate in school activities. This limitation is compounded by the use of retrospective and self-report data. Second, although the findings are generalizable to other adolescents of similar backgrounds, they are not generalizable to a broader non-Black adolescent population. Third, other important adolescent contexts, like peers, were not examined. Although it was the intent of this study to examine integration into social institutions, considering the peer context could contribute to a fuller understanding of how social contexts influence mental health outcomes. The literature on schools and religion both exemplify the opportunities adolescents have to develop relationships with peers through participation in school activities (Eccles et al., 2003) and religious activities (Milot & Ludden, 2009). It is possible that adolescents are more integrated into these environments due to peer relationships that may be encouraging of behavior and consequent actions.

Future research could consider a longitudinal study design. This type of study could be useful for examining how significant associations among the variables change over time as the adolescent ages. In addition, studying other ethnic groups of adolescents may help determine if these findings are consistent across other adolescent subgroups or adolescents in general. The focus and scope of this study was to examine relations between study constructs for the overall sample of Black adolescents. Our next steps will be to examine within-group differences (e.g., Joe et al., 2009) as there is the potential for subpopulation variation in the measurement of constructs and in the association between constructs. For example, although Black adolescents may attend church regularly, older Black adolescents may exercise a greater level of freedom and autonomy through normal developmental activities like jobs, other recreational activities, access to a car, and peer-encouraged activities (Smith, Denton, Faris, & Regnerus, 2002), which may reduce their attendance at religious activities. This would be important to consider as observed associations may apply to younger or middle adolescents mainly.

Overall, the study findings emphasize the importance of identifying family, school, and religion factors significant to better mental health outcomes that can, in turn, inform the design and further development of evidence-based promotion,
prevention, and treatment interventions as well as culturally consonant interventions that enhance adolescent psychosocial well-being, particularly in Black adolescent populations. The findings of this study are useful for direct service practitioners, program developers, and policymakers who seek to reduce the burden of mental health problems among adolescents, through efforts to foster and build their mental health.

References


