The present study assessed a developmental task theory of romantic relationships by examining associations between romantic relationship qualities and adjustment across 9 years using a community-based sample of 100 male and 100 female participants ($M_{age}$ Wave 1 = 15.83) in a Western U.S. city. Using multilevel modeling, the study examined the moderating effect of age on links between romantic relationship qualities and adjustment. Consistent with developmental task theory, high romantic quality was more negatively associated with internalizing symptoms and dating satisfaction during young adulthood than adolescence. Romantic relationship qualities were also associated with externalizing symptoms and substance use, but the degree of association was consistent across ages. The findings underscore the significance of romantic relationship qualities across development.

Throughout the lifespan, individuals encounter a series of developmental tasks that reflect widely held expectations regarding age-appropriate behavior (McCormick, Kuo, & Masten, 2011). One such developmental task is the emergence and maintenance of romantic relationships (Roisman, Masten, Coatsworth, & Tellegen, 2004). Developmental task theory proposes that romantic relationships are an emerging developmental task in adolescence and become a salient development task in adulthood (Roisman, Booth-LaForce, Cauffman, Spieker, & the NICHD Early Child Care Research Network 2009; Roisman et al., 2004). When it is an emerging developmental task, the quality of such romantic relationships is not expected to be especially related to future adaptation, because of the variability and instability of the transitional period. As an emerging task, adolescents may be less likely to benefit from higher quality relationships as they navigate new experiences and learn to manage new stressors associated with romantic relationships. However, the quality of romantic relationships once they are a salient developmental task is expected to be associated with future adaptation (Ford & Lerner, 1992; Roisman et al., 2004; Thelen & Smith, 1998). By the same reasoning, the quality of functioning within romantic relationships may be related to concurrent adjustment in adolescence and young adulthood, but such associations should be stronger in young adulthood. The present study tested this aspect of developmental task theory by examining developmental shifts in associations between romantic relationship qualities and adjustment from adolescence into young adulthood.

One tenant of developmental task theory is that romantic relationships change as a function of development (McCormick et al., 2011). Shifts in the nature of romantic relationships reflect the progression of romantic relationships from an emerging to a salient task. Indeed, such shifts also reflect the growing significance of these relationships for youth, such that as these experiences become more developed and salient, they should also become increasingly tied to adjustment. Consistent with this theory, as adolescents become older and transition into young adulthood, romantic partners increase in their importance and are more likely to serve as safe havens or secure bases (Hazan & Zeifman, 1994). Romantic relationships also become increasingly supportive, more intimate, and more interdependent as adolescents get older and move into young adulthood (Furman & Buhrmester, 1992; Giordano, Manning, Longmore, & Flanigan, 2012;
Seiffge-Krenke, 2003). Furthermore, as adolescents get older, they begin to rank their romantic partners as higher on a hierarchy of support figures (Furman & Buhrmester, 1992). Romantic relationships also become more serious and committed; as adolescents move into young adulthood, they become increasingly likely to have relationships of longer duration and to report being in love (Furman & Winkles, 2011). Overall, the pattern suggests that adolescent romantic relationships may center around affiliation and sexual activity when they are first emerging, but they become increasingly significant and valued as adolescents transition to young adulthood and these experiences become a salient developmental task (Furman & Wehner, 1997).

The idea that romantic relationships not only become more common but also shift in their nature is a core tenant of developmental task theory. In addition to these developmental shifts, preliminary evidence suggests associations between quality of functioning within romantic relationships and adjustment exist. Indeed, a developmental task theory would suggest that the quality of functioning within salient developmental tasks may be most predictive of adaptation (Roisman et al., 2004). Among young adults, higher relationship quality is associated with more positive adjustment (Kamp Dush & Amato, 2005; Segrin, Powell, Givertz, & Brackin, 2003; Simon & Barrett, 2010). Yet, among adolescents, these associations are less consistent and not as well understood (cf. La Greca & Harrison, 2005; Zimmer-Gembeck, Siebenbruner, & Collins, 2001). Our limited understanding of these associations in adolescence reflects the fact that most studies of adolescents have examined whether one has a relationship or the degree of romantic involvement, rather than the quality of that involvement (Davila, 2008).

The associations between romantic involvement and adjustment have received significant attention, and the literature has consistently demonstrated links between romantic involvement and internalizing problems in adolescence, particularly among girls (Connolly & McIsaac, 2009; Davila, 2011; Joyner & Udry, 2000; Starr et al., 2012). However, the extant literature has not yet examined if and when the quality of romantic relationships emerge to serve protective functions for adjustment. More recently, prior work using the same data set as this study examined how associations between romantic involvement and adjustment change developmentally (Furman & Collibee, 2014). Specifically, having a romantic partner was associated with greater levels of substance use, externalizing symptoms, and internalizing symptoms in adolescence, but was associated with lower levels in young adulthood. However, this work did not examine the nature of that romantic involvement. An examination of the associations between romantic qualities and adjustment not only addresses a separate and significant gap in the literature, but also allows us to test a distinct and important aspect of a developmental task theory—that the quality of functioning within the task (i.e., romantic relationships) should become increasingly related to adjustment as the task becomes salient.

Additionally, most studies that consider the quality of the romantic experiences have only examined one age group. Studying the associations between the quality of romantic relationships and adjustment from adolescence to young adulthood longitudinally may be particularly illuminating in understanding the developmental course of romantic relationships as a developmental task. Specifically, we would anticipate that the quality of romantic relationships would become increasingly associated with adjustment as it becomes a salient developmental task. The few studies that have compared these links in adolescence and young adulthood offer evidence consistent with a developmental task theory. Specifically, romantic relationship security is more strongly associated with fewer externalizing symptoms in young adulthood than in adolescence (van Dulmen, Goncy, Haydon, & Collins, 2008). For individuals whose most significant peer is a romantic partner, greater commitment is associated with fewer emotional problems in early adulthood, but not in adolescence (Meeus, Branje, van der Valk, & de Wied, 2007). As such, this preliminary work indeed suggests that differential associations may exist between romantic relationship qualities and adjustment developmentally. However, these works each examine only two time points, limiting our understanding of the developmental course of these links, an important aspect of testing a developmental task theory. Additionally, only a few relationship qualities and indices of adjustment have been examined to date.

The current study assessed the associations between romantic relationship qualities and adjustment over a 9-year period from middle adolescence to young adulthood (15-24 years of age) as a test of developmental task theory. Specifically, we examined the links between romantic relationship quality (support, negative interactions, and romantic relationship satisfaction) and adjustment (internalizing symptoms, externalizing symptoms, substance use, and overall dating satisfaction), across time. We
selected internalizing symptoms, externalizing symptoms, and substance use because they are broad and important aspects of adjustment and romantic relationships. We included relationship satisfaction as one of our indices of relationship quality, but we also included overall dating satisfaction as an index of adjustment because romantic relationship qualities likely influence feelings of dating satisfaction over time as well. Past research has examined satisfaction with a particular romantic relationship in adolescence (e.g., Levesque, 1993; Overbeek, Ha, Scholte, de Kemp, & Engels, 2007; Welsh, Haugen, Widman, Darling, & Grello, 2005), but we believe this is one of the first studies to examine overall satisfaction with dating life during adolescence. Overall dating satisfaction is an important construct that is somewhat distinct from satisfaction with a particular relationship, as it may be influenced not only by feelings toward a current partner, but also by the qualities of past relationships, the number of individuals they have seen romantically, and whether they have a current relationship or not.

We expected that the associations between romantic relationship quality and adjustment would reflect that romantic relationships are an emerging developmental task in adolescence yet become a salient developmental task in young adulthood. Thus, we hypothesized that the associations between romantic quality and adjustment would vary as a function of age, such that we would see links between greater relationship quality and fewer adjustment problems across development, but that these links would get stronger as youth grow older and became young adults.

**Method**

**Participants**

The participants were part of a longitudinal study investigating the role of relationships with parents, peers, and romantic partners on psychosocial adjustment. Two hundred 10th-grade high school students (100 boys, 100 girls; $M_{age} = 15$ years 10.44 months old, $SD = 0.49$ years) were recruited. The participants came from 37 zip codes of working-class to upper-middle-class neighborhoods in a large Colorado metropolitan area. We sought to obtain a diverse sample by distributing brochures and sending letters to families residing in a number of different zip codes and to students enrolled in various schools in ethnically diverse neighborhoods. We were unable to determine the ascertainment rate because we used brochures and because the letters were sent to many families who did not have a 10th grader. We contacted interested families with the goal of selecting a sample that had an equal number of males and females, and had a distribution of racial/ethnic groups that approximated that of the United States. To ensure maximal response, we paid families $25 to hear a description of the project in their homes. Of the families that heard the description, 85.5% expressed interest and carried through with the Wave 1 assessment.

The sample consisted of 11.5% African Americans, 12.5% Hispanics, 1.5% Native Americans, 1% Asian American, 4% biracial, and 69.5% White, non-Hispanics. With regard to family structure, 57.5% were residing with two biological or adoptive parents, 11.5% were residing with a biological or adoptive parent and a stepparent or partner, and the remaining 31% were residing with a single parent or relative. The sample was of average intelligence (Wechsler Intelligence Scale for Children–III vocabulary score $M = 9.8$, $SD = 2.44$); 55.4% of their mothers had a college degree, indicating that the sample was predominately middle or upper middle class.

As part of the larger project, the participants and their mothers completed a number of other measures in Wave 1. Although these measures are not directly relevant to this particular study, we compared our sample’s scores to comparable national norms of representative samples for trait anxiety scores on the State–Trait Anxiety Inventory (STAI; Spielberger, 1983), maternal report of externalizing symptoms on the Child Behavior Checklist (Achenbach, 1991), participants’ reports of internalizing and externalizing symptoms on the Youth Self Report, and eight indices of substance use from the Monitoring the Future survey (Johnston, O’Malley, & Bachman, 2002). The present sample was more likely to have tried marijuana (54% vs. 40%, $z = 2.23$, $p < .05$); otherwise, the sample scores did not differ significantly from the national scores on the other 11 measures, including frequency of marijuana usage.

**Procedure**

Adolescents participated in a series of laboratory sessions in which they were interviewed about romantic relationships and completed questionnaires. The mother ($N = 169$) and a close friend ($N = 145$) nominated by the participant also completed questionnaires about the participant’s psychosocial competence and risky/problem behaviors.
For the purposes of the current study, we used the first through seventh waves of data collection, beginning when the participants were in the 10th grade and ending approximately 5.5 years after graduation from high school. Data were collected on a yearly basis in Waves 1 through 4, and then 1½ years later for Waves 5–7. The seven waves of data were collected between 2000 and 2010. Participant retention was excellent (Waves 1 and 2; \( N = 200 \); Wave 3; \( N = 199 \); Wave 4; \( N = 195 \); Wave 5; \( N = 186 \); Wave 6; \( N = 185 \); Wave 7; \( N = 179 \)). There were no differences on the variables of interest between those who did and did not remain in the study.

The study was approved by the local Institutional Review Board.

**Measures**

*Network of Relationships Inventory: Behavioral Systems Version (Furman & Buhrmester, 2009)*

Participants completed the Network of Relationships Inventory (NRI) to assess their perceptions of their most important romantic relationship in the last year. The short version of the NRI includes five items regarding social support and six items regarding negative interactions. Participants used a 5-point scale to rate how much each description was characteristic of their romantic relationship, and support and negative interaction scores were derived by averaging the relevant items (\( M_s = .89 \) and .92, respectively).

*Romantic Relationship Satisfaction*

Relationship satisfaction was assessed through an adapted version of the Quality of Marriage Inventory (QMI; Norton, 1983). The QMI is a six-item self-report measure that assesses an individual’s global perception of his or her relationship quality (Baxter & Bullis, 1986) and was adapted to assess relationship satisfaction among adolescents and young adults. An example of a question is, “My relationship with my boy/girlfriend makes me happy,” which the participant then responds to on a 7-point Likert scale (1 = strongly disagree/not at all true to 7 = strongly agree/very true; \( M_s = .97 \)).

*Dating Satisfaction*

On the Dating History Questionnaire (Furman & Wehner, 1992) participants were asked, “How satisfied have you been with your romantic or dating life (or not dating, if you don’t date)?” Satisfaction was rated on a 5-point scale. Convergent validity correlations can be found in Table 2.

**Youth/Adult Self Report**

Participants completed the Achenbach’s (1991) Youth Self-Report in Waves 1–3 and Achenbach’s (1997) Adult Self-Report in Waves 4–7. Internalizing and externalizing scores were derived from the 20 and 26 items that were comparable on the two versions (\( M_s = .81 \) and .87, respectively).

*Child/Adult Behavior Checklist*

Friends and mothers reported on the participant’s externalizing symptoms by completing the externalizing items of the Child Behavior Checklist in Waves 1–3 and the externalizing items on (1997) Adult Behavior Checklist in Waves 4–7 (Achenbach, 1991, 1997). Friend and mother reports of externalizing scores were derived from the 19 items that were comparable on the two versions (\( M_s = .84 \) and .89, respectively).

*Beck Depression Inventory*

Participants completed the Beck Depression Inventory (BDI) to assess depressive symptoms (Beck, Rush, Shaw, & Emery, 1979; \( M_s = .86 \)).

*State-Trait Anxiety Inventory*

Participants completed the trait scale of Spielberger’s (1983) STAI to assess anxious symptoms (\( M_s = .92 \)).

*Drug Involvement Scale for Adolescence*

Participants completed the Drug Involvement Scale for Adolescence (Eggert, Herting, & Thompson, 1996). For the present purposes, we examined use of beer, wine, liquor, marijuana, and other drugs (cocaine, opiate, depressants, tranquilizers, hallucinogens, inhalants, stimulants, over-the-counter drugs, club drugs) over the last 30 days. Frequency of each substance use was scored on a 7-point scale ranging from never to every day. Additionally, they completed a 16-item measure assessing adverse consequences arising from substance use (\( M_s = .94 \)) and an 8-item measure assessing difficulties in controlling substance use (\( M_s = .91 \)). The questionnaires on sexual behavior and substance use were administered by computer-assisted self-interviewing techniques to increase the candor of responses.
Friends Report of Substance Use

As part of their version of the Adolescent Self-Perception Profile (Harter, 1988), friends were asked five questions about the participant’s use of alcohol and drugs and problems related to the use of those substances. The five items were averaged to derive the friend report of the participant’s substance use and problems \( (M = .82) \).

Derivation of Composites

The participants’, friends’, and mothers’ reports of externalizing symptoms were standardized across waves and averaged to derive an index of externalizing symptoms. BDI depression scores, STAI anxiety scores, and internalizing symptom scores were each standardized across waves and averaged to derive an index of internalizing symptoms. The various measures of the internalizing composite were correlated at \( M_r = .66 \) and externalizing measures were correlated at \( M_r = .32 \), and were all significant correlations.

The participants’ reports of beer/wine drinking and their reports of drinking liquor were each standardized across waves and averaged to derive a measure of alcohol use. Similarly, the participants’ reports of marijuana use and their reports of other drug use were standardized across waves and averaged to derive a measure of drug use. The participants’ reports of problems and their reports of control problems were each standardized across waves and averaged to derive a measure of problem usage. The friends’ reports of substance use were all significantly correlated \( (M_r = .55) \), and they were averaged to derive a measure of substance use.

Table 1
Mean Romantic Involvement and Adjustment Outcomes (With Standard Deviations in Parentheses)

<table>
<thead>
<tr>
<th></th>
<th>Wave 1</th>
<th>Wave 2</th>
<th>Wave 3</th>
<th>Wave 4</th>
<th>Wave 5</th>
<th>Wave 6</th>
<th>Wave 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>15.88 (0.47)</td>
<td>16.89 (0.47)</td>
<td>17.94 (0.50)</td>
<td>19.03 (0.56)</td>
<td>20.51 (0.56)</td>
<td>22.11 (0.51)</td>
<td>23.70 (0.61)</td>
</tr>
<tr>
<td>Support</td>
<td>3.07 (1.03)</td>
<td>3.52 (1.08)</td>
<td>3.52 (1.05)</td>
<td>3.73 (1.00)</td>
<td>3.66 (1.04)</td>
<td>3.84 (0.98)</td>
<td>3.93 (0.96)</td>
</tr>
<tr>
<td>Negative interactions</td>
<td>1.82 (0.75)</td>
<td>1.71 (0.76)</td>
<td>1.95 (0.94)</td>
<td>1.74 (0.79)</td>
<td>1.88 (0.81)</td>
<td>1.79 (0.75)</td>
<td>1.74 (0.61)</td>
</tr>
<tr>
<td>Relationship satisfaction</td>
<td>11.34 (4.42)</td>
<td>12.28 (4.56)</td>
<td>12.03 (4.81)</td>
<td>13.63 (4.13)</td>
<td>12.26 (4.87)</td>
<td>13.10 (4.64)</td>
<td>13.18 (4.48)</td>
</tr>
<tr>
<td>Internalizing</td>
<td>0.16 (0.91)</td>
<td>0.16 (0.94)</td>
<td>0.05 (0.89)</td>
<td>-0.04 (0.86)</td>
<td>-0.04 (0.85)</td>
<td>-0.12 (0.83)</td>
<td>-0.18 (0.91)</td>
</tr>
<tr>
<td>Externalizing</td>
<td>0.27 (0.87)</td>
<td>0.13 (0.82)</td>
<td>0.14 (0.85)</td>
<td>0.04 (0.78)</td>
<td>-0.14 (0.66)</td>
<td>-0.24 (0.68)</td>
<td>-0.31 (0.68)</td>
</tr>
<tr>
<td>Substance use</td>
<td>-0.26 (0.49)</td>
<td>-0.14 (0.59)</td>
<td>-0.05 (0.63)</td>
<td>0.07 (0.58)</td>
<td>0.18 (0.65)</td>
<td>0.33 (0.61)</td>
<td>0.33 (0.65)</td>
</tr>
<tr>
<td>Dating satisfaction</td>
<td>3.25 (0.98)</td>
<td>3.38 (1.08)</td>
<td>3.40 (1.07)</td>
<td>3.56 (1.07)</td>
<td>3.54 (1.17)</td>
<td>3.61 (1.19)</td>
<td>3.64 (1.15)</td>
</tr>
</tbody>
</table>

Results

Preliminary Analyses

All variables were examined to ensure that they had acceptable levels of skew and kurtosis (Behrens, 1997). Outliers were winsorized to fall 1.5 times the interquartile range below the 25th percentile or above the 75th percentile. Additional descriptive statistics can be found in Table 1, and correlations among the study variables at Wave 1 and Wave 7 can be found in Table 2. Support and relationship satisfaction increased over time, though negative interactions did not (see Lantagne & Furman, 2015). In Wave 1, 59.8% of participants reported having had a romantic partner in the last year; in Wave 2, 66% had a romantic partner; in Wave 3, 78.2% had a romantic partner; in Wave 4, 75.9% had a romantic partner; in Wave 5, 73.5% had a romantic partner; in Wave 6, 79.9% had a romantic partner and in Wave 7, 80.6% had a romantic partner. Participant’s reports of whether they had a romantic relationship or not was used as a measure of romantic involvement in the analyses.

Primary Analyses

We aimed to examine the pattern of associations between romantic quality and adjustment developmentally with a series of multilevel models using the statistical program Hierarchical Linear Modeling version 6.0, which uses full information maximum likelihood (FIML) to estimate parameters when data are missing (HLM; Raudenbush, Bryk, Cheong, & Congdon, 2001). FIML provides a powerful alternative to listwise deletion and protects against bias in analyses (Graham, Olchowski, & Gilreath, 2007; Little, Jorgensen, Lang, & Moore, 2014). When participants did not have a romantic relationship at a certain wave, romantic qualities
(i.e., support, negative interactions, and relationship satisfaction) were entered as missing. However, those participants who did not have a romantic relationship in a certain wave provided information on other variables of interest, including internalizing symptoms, externalizing symptoms, substance use, and romantic life satisfaction. Thus, existing data from all waves from all participants were used. To test our hypotheses regarding the developmental task theory, we used the following model.

Level 1:

\[ Y_i = \beta_0 + \beta_1 (\text{romantic involvement}) + \beta_2 (\text{age}) + \beta_3 (\text{romantic quality}) + \beta_4 (\text{Age} \times \text{Romantic Quality}) + r_i \]

Level 2:

\[ \beta_0 = \gamma_{00} + \gamma_{01} (\text{gender}) + u_0 \]

\[ \beta_1 = \gamma_{10} \]

\[ \beta_2 = \gamma_{20} \]

\[ \beta_3 = \gamma_{30} \]

\[ \beta_4 = \gamma_{40} \]

We used a two-step model to examine these associations, with both romantic qualities and age grand mean centered. First, we conducted a model with gender, romantic involvement, age, and romantic quality. We controlled for romantic involvement to assess if the quality of romantic relationships is associated with adjustment above the presence of a relationship. Next, we examined the interaction effects after the main effects to avoid concerns of conditionality (Little, 2013). We tested for significant random effects and found significant random slopes for age when predicting internalizing or externalizing symptoms using a \(p < .20\) cutoff (Nezlek, 2012). In those instances, the equation included that random effect at Level 2. Table 3 reports the results of these analyses. Though all the effects are presented together, the unstandardized regression coefficients and standard errors are the values at the step in which these terms were first entered in the model. We also examined two-way and three-way interactions with gender, and found there were none.

**Internalizing Symptoms**

**Romantic support.** Consistent with a developmental task theory hypothesis, main effects of both age and romantic support on internalizing symptoms were found, but they were qualified by a significant interaction between age and romantic support (see Figure 1). To further interpret this and the other significant interactions, we used Preacher, Curran,
and Bauer’s (2006) computational tools to plot the estimated effects of romantic qualities on change in the adjustment measure for two values of age: 1 SD below the mean age across all seven waves (16.66 years) and 1 SD above the mean age across all seven waves (21.92 years). In young adulthood, higher romantic support was associated with lower internalizing symptoms, $b = -0.15, t(897) = -4.62, p < .001$. In adolescence, internalizing symptoms did not differ by degree of romantic support (see Figure 1).

**Negative interactions.** Consistent with hypotheses, a main effect of both age and negative interactions were found on internalizing symptoms, but again they were qualified by a significant interaction between age and negative interactions. As seen in Figure 2, higher negative interactions were associated with higher internalizing symptoms in both adolescence and young adulthood, but the association was stronger in young adulthood, $b = -0.16, t(902) = 3.95, p < .001$, and $b = 0.26, t(902) = 6.58, p < .001$, respectively.

**Relationship satisfaction.** Consistent with hypotheses, main effects of both age and romantic relationship satisfaction were found on internalizing symptoms, but again they were qualified by a significant interaction between age and relationship satisfaction. As seen in Figure 3, romantic relationship satisfaction was associated with lower internalizing symptoms in young adulthood, $b = -0.06,$
In adolescence, internalizing symptoms did not differ by degree of relationship satisfaction.

Externalizing Symptoms

**Romantic support.** Main effects of both age and romantic support were found. There was a negative association with age, such that as individuals get older, they had fewer externalizing symptoms. Similarly, there was a negative association with romantic support, such that individuals with higher levels of romantic support had lower levels of externalizing symptoms. Contrary to hypotheses, no interaction between romantic support and age was found.

**Negative interactions.** Main effects of both age and negative interactions were found, such that as individuals got older they had fewer externalizing symptoms. Similarly, there was a positive association with negative interactions, such that individuals with higher levels of negative interactions had higher levels of externalizing symptoms. Contrary to hypotheses, no interaction between negative interactions and age was found.

**Relationship satisfaction.** Main effects of both age and romantic relationship satisfaction were found. There was a negative association with age, such that as individuals got older they had fewer externalizing symptoms. Similarly, there was a negative association with romantic relationship satisfaction, such that individuals with higher levels of relationship satisfaction had lower levels of externalizing symptoms. Contrary to hypotheses, no interaction between relationship satisfaction and age was found.

Substance Use

**Romantic support.** Regarding substance use, a main effect of age was found, such that as individuals got older they reported higher substance use. Contrary to hypotheses, neither the main effect of romantic support nor the interaction between romantic support and age was significant.

**Negative interactions.** Main effects of both age and negative interactions were found. There was a negative association with age, such that as individuals got older, they had fewer externalizing symptoms. Similarly, there was a positive association with negative interactions, such that individuals with higher levels of negative interactions had higher levels of substance use. Contrary to hypotheses, no interaction between relationship satisfaction and age was found.

**Relationship satisfaction.** Regarding substance use, a main effect of age was found, such that as individuals got older, they reported higher substance use.
There was no main effect of relationship satisfaction on substance use. Consistent with hypotheses, there was a significant interaction between age and relationship satisfaction on substance use. As seen in Figure 4, in young adulthood, high relationship satisfaction was associated with lower substance use, \( \beta = -0.02, t(905) = -3.74, p < .001 \). In adolescence, substance use did not differ by degree of relationship satisfaction.

**Dating Satisfaction**

**Romantic support.** Consistent with hypotheses, a main effect of romantic support was found, but it was qualified by a significant interaction between age and romantic support. In both adolescence and young adulthood, high romantic support was associated with high dating satisfaction, but the association was stronger in young adulthood, \( \beta = .33, t(884) = 8.30, p < .001 \), and \( \beta = .49, t(884) = 12.25, p < .001 \), respectively (see Figure 5).

**Negative interactions.** Consistent with hypotheses, a main effect of negative interactions was found, but was qualified by a significant interaction between age and negative interactions on dating satisfaction. As seen in Figure 6, higher rates of negative interactions were associated with lower dating satisfaction in young adulthood, \( \beta = -.34, t(889) = -4.66, p < .001 \). In adolescence, dating satisfaction did not differ by degree of negative interactions.

**Relationship satisfaction.** Consistent with hypotheses, main effects of relationship satisfaction and age were found, but were qualified by a significant interaction between age and relationship satisfaction on dating satisfaction. As seen in Figure 7,
higher relationship satisfaction was associated with higher dating satisfaction in adolescence and young adulthood, though the association was greater in young adulthood, $\beta = .07$, $t(897) = 5.79$, $p < .001$, and $\beta = .13$, $t(897) = 9.92$, $p < .001$, respectively.

Secondary Analyses

The preceding analyses examine the links from romantic quality to adjustment. We next conducted a series of follow-up analyses examining the links from adjustment to romantic qualities, so as to better understand the potential directionality of these associations. We found significant main effects for internalizing symptoms and externalizing symptoms predicting lower support and relationship satisfaction, as well as greater negative interactions. Similarly, dating satisfaction predicted higher support and relationship satisfaction as well as lower rates of negative interactions. Substance use predicted greater negative interactions, but was not associated with support or relationship satisfaction. Regarding interactions between adjustment and age, the specific interactions varied, but the pattern of effects mirrored those in the primary analyses. In other words, in instances of significant interactions, adjustment became increasingly predictive of romantic qualities developmentally, consistent with developmental task theory. Results and plots are available as supplemental materials from the corresponding author.

Discussion

Past research has documented links between romantic relationship qualities and adjustment, but virtually all the work is cross-sectional in nature, examining one or at most two time points. The present study contributes to the literature by longitudinally examining the developmental course of associations between romantic relationship qualities and adjustment over a 9-year period spanning adolescence and young adulthood. Based on developmental task theory, we hypothesized that romantic relationship qualities would be associated with adjustment throughout this age period, but the quality of functioning within romantic relationships would become increasingly tied to concurrent adjustment as romantic relationships become a salient development task in young adulthood. As predicted, we found increasing associations between romantic relationship qualities and adjustment as youth got older in 7 of 12 instances; in 4 of the 5 remaining instances, significant main effects of romantic quality on adjustment were found. Notably, these main effects of quality were found even when controlling for relationship involvement.

Consistent with a developmental task theory, the associations between romantic relationship qualities and dating satisfaction were stronger in young adulthood than in adolescence. Such a pattern was observed for all three relationship qualities (support, negative interactions, and relationship satisfaction). These changing associations are particularly notable, as one might intuitively expect that romantic relationship qualities would be strongly associated with overall satisfaction with dating life at all ages. Indeed, prior work has demonstrated that adolescents prefer higher quality romantic partnerships (Levesque, 1993). However, these shifts can be accounted for by developmental task theory. During adolescence, when romantic relationships are an emerging developmental task, simply having a romantic relationship, having a number of relationships, or having a relationship with an attractive or otherwise desirable partner may play major roles in determining one’s overall dating satisfaction, which may result in the quality of a relationship per se being less significant. In contrast, as romantic relationships become a salient developmental task, the quality of the relationship may become increasingly important to overall satisfaction. That is, the quality of a specific relationship becomes more predictive of overall dating satisfaction than other features of romantic life.
The findings regarding internalizing symptoms were also consistent with developmental task theory. As hypothesized, the associations between all three romantic relationship qualities and internalizing symptoms were stronger in young adulthood than in adolescence. When romantic relationships are a salient developmental task, poorer quality ones may lead to feelings of depression or anxiety. Alternatively, those who are depressed or anxious may have more difficulties establishing or maintaining high-quality relationships (Davila, 2008). Indeed, the supplemental analyses demonstrated significant associations from internalizing symptoms to romantic qualities. Thus, regardless of the directionality, it is clear that links between adjustment and romantic qualities are present across development and strengthen as romantic experiences become a salient task.

Finally, romantic relationship satisfaction was only associated with substance use in early adulthood. Perhaps, if substance use functions as a means of coping with dissatisfaction, then the increasing saliency of this dissatisfaction may be linked to higher levels of relying on substances to manage discontent. We did not, however, find similar interactions with age for either support or negative interactions. It is possible that support and negative interactions may not trigger such direct affective responses, which then may lead to maladaptive coping. Given the differences in the findings among the different qualities it will be important to replicate them before drawing firm conclusions.

The significant interactions with age for overall dating satisfaction, internalizing symptoms, and substance use are consistent with a developmental task theory of romantic relationship development. One explanation why romantic qualities become increasingly associated with adjustment is a stress and coping model of romantic experiences. This model posits that romantic experiences in adolescence may be stressful and overwhelming, thereby placing youth at risk for adjustment problems (Davila, 2008). In other words, adolescents may lack the necessary emotion regulation or coping skills to manage the stressors associated with romantic relationships. Though one might expect that romantic stressors and the quality of romantic relationships would be somewhat related, the challenges adolescents face in coping with most romantic relationships may be more related to simply initiating and maintaining the relationships, and thus the quality of a relationship may play a less significant role in affecting adjustment. Furthermore, the stressors associated with romantic involvement may be unrelated to the quality of the specific relationship. For example, adolescents may need to learn how to balance desires to spend time with a romantic partner and other academic or familial obligations. As adolescents transition into young adulthood, this model posits that they develop more coping skills and experience to better manage romantic stressors, and therefore may be able to benefit more from the social and emotional resources high-quality romantic relationships offer.

Contrary to our hypotheses, age did not moderate the associations between romantic relationship qualities and externalizing symptoms as well as most substance use variables. Substance use in particular has the greatest variability in patterns of findings. This variability may stem from the fact that the associations between romantic relationship quality and substance use depend on the patterns of partner substance use in young adulthood (Fleming, White, & Catalano, 2010). Further research examining these developmental changes should therefore incorporate assessments of partner substance use to better understand these associations.

Main effects of romantic quality were also found for externalizing symptoms such that greater support, greater relationship satisfaction, and fewer negative interactions were associated with fewer externalizing symptoms across adolescence and young adulthood. Indeed, other empirical evidence is consistent with these results. Specifically, romantic partner support is associated with less criminality in both adolescence and young adulthood (Meeus, Branje, & Overbeek, 2004).

What might account for the difference between the pattern of associations with externalizing and those with internalizing symptoms or dating satisfaction? One possibility is that externalizing symptoms are more stable than internalizing symptoms or dating satisfaction, and as a consequence, the externalizing symptoms’ associations with other variables may be less likely to increase with age. Consistent with this idea, the correlation between externalizing symptoms in Wave 1 and Wave 7 was significantly greater than the corresponding correlation for internalizing symptoms \(r = .48 \text{ vs. } r = .31\) using Fisher’s \(r\)-to-\(z\) transformation, \(ZPF = 2.19, p = .03\). Similarly, the correlation between externalizing symptoms in Wave 1 and Wave 7 was significantly greater than the corresponding correlation for dating satisfaction \(r = .48 \text{ vs. } r = .22, ZPF = 2.95, p = .003\).

The differences in the pattern of results may also have occurred because different facets of romantic experiences are associated with different indices of adjustment. For example, the stress and coping
model was derived as an explanation for internalizing symptoms and depression, not externalizing symptoms (Davila, 2008). Perhaps alternative mechanisms, such as partner characteristics are associated with externalizing behavior, such as delinquency. Adolescents who engage in delinquent behavior are likely to have delinquent partners (Lonardo, Giordano, Longmore, & Manning, 2009), and having such a romantic partner may lead to delinquent behavior (Haynie, Giordano, Manning, & Longmore, 2005).

The pattern of findings for externalizing symptoms is also distinct from prior work with this sample on romantic involvement (Furman & Collibee, 2014). In prior work, the presence of a romantic relationship was associated with more externalizing symptoms in adolescence, but less in young adulthood. In other words, the links between romantic involvement and externalizing symptoms vary by age, whereas the links between romantic relationship qualities and externalizing do not. Perhaps the negative links in adolescence are accounted for by the typical quality of these romantic relationships. As romantic relationships improve in quality developmentally, the associations between romantic involvement and adjustment may also change such that romantic involvement becomes protective in young adulthood.

Limitations and Future Directions

In the present study, we examined the longitudinal developmental course of associations between romantic relationship qualities and adjustment from adolescence into young adulthood. However, we only examined the concurrent associations at the different ages. Developmental task theory hypothesizes that once romantic relationships are a salient developmental task, quality of functioning in the task (i.e., romantic relationship qualities) should predict future adaptation (Roisman et al., 2004). Future research should examine such longitudinal associations. Studies examining whether romantic relationship qualities are predictive of success in other subsequent developmental tasks would be particularly informative.

Longitudinal studies would also help test potential alternative explanations for the present associations, as the concurrent nature of the present study does not address the directionality of the links. We focused on how romantic relationship qualities may be linked to adjustment, but the links may also go from adjustment to romantic relationship qualities, which would also be consistent with developmental task theory. Indeed, we examined and found the expected associations from adjustment to romantic qualities as well, suggesting that these links may go in either direction, which is consistent with some extant literature (Davila, Stroud, & Starr, 2009). In fact, several of our explanations of the associations also were based on the idea that adjustment may affect the quality of romantic relationships (e.g., internalizing symptoms affecting relationship qualities). Further work should aim to better understand these potential bidirectional processes. On a related note, the various relationship qualities were correlated with one another, as were the various adjustment indices. An important next step would be to better understand which romantic qualities may uniquely be related to specific adjustment indices.

Third-variable explanations such as partner effects may also be responsible for patterns of findings. Additionally, although the present study examined the developmental course of these links over almost a decade, expanding the age range being studied would be an important next step. For example, the links between romantic quality and adjustment may become even stronger as young adults begin cohabitating or get married, as links between marriage and well-being are well established (Williams, Frech, & Carlson, 2010).

Finally, we have demonstrated that the quality of romantic relationships is predictive of adjustment even when controlling for the presence of a romantic relationship. Future work should extend these findings and explore if the normative quality of romantic relationships in adolescence and young adulthood may partially account for the links between romantic involvement and adjustment in the literature.

Despite these limitations, the present study contributes significantly to the field by providing the first examination of the developmental course of links between romantic relationship qualities and adjustment over a 9-year span. Taken together, the present study provides evidence for a developmental task theory of romantic relationships. Perhaps more important, it offers consistent evidence of associations between romantic relationship qualities and adjustment across development. Indeed, higher romantic quality was commonly associated with adjustment in adolescence, and these links are magnified in young adulthood as romantic relationships become a salient developmental task.

References


