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Kiss and Makeup? Examining the Co-Occurrence of Conflict and Sex

Jessica A. Maxwell, Ph.D.¹ & Andrea L. Meltzer, Ph.D.²

¹School of Psychology, University of Auckland, Auckland, New Zealand

²Department of Psychology, Florida State University, Tallahassee, FL, USA

Author Note

Jessica A. Maxwell is a Lecturer at the University of Auckland. She completed a SSHRC postdoctoral fellowship at Florida State University. Her research applies social psychological theories and methods to the study of sex in romantic relationships.

Andrea L. Meltzer is an Assistant Professor at Florida State University. She received her PhD in social psychology at the University of Tennessee, and her research draws from evolutionary and social psychological perspectives to better understand long-term relationships such as marriage.

Correspondence concerning this article should be addressed to Jessica A. Maxwell, School of Psychology, University of Auckland, 23 Symonds Street, Auckland, New Zealand, 1010, +64 9 923 8261. Email: Jessica.maxwell@auckland.ac.nz

Abstract

Although conflict and sex frequently occur in relationships, little research has examined their interconnectedness. Some evidence suggests their co-occurrence can benefit relationships whereas other evidence suggests the opposite. We sought to clarify such contrasting evidence by conducting a dyadic daily-diary study of 107 newlywed couples that included a 6-month follow-up assessment. Although conflict (operationalized as one partner doing something the other did not like) was unassociated with the likelihood of sex on a given day, it predicted a lower likelihood the following day. Moreover, despite the fact that sex co-occurring with (versus occurring independent of) conflict was less enjoyable, it partially reduced the negative effects of conflict on both spouses' daily relationship quality. The extent to which sex and conflict co-occurred was unassociated with intimates' changes in marital satisfaction six months later. The implications of engaging in post-conflict sex are nuanced: although such sex is less enjoyable, it temporarily buffers relationship quality in that moment.

Keywords: Sex, Conflict, Makeup sex, Marriage, Daily Diary

Kiss and Makeup? Examining the Co-Occurrence of Conflict and Sex

“...the only sex you're going to have better than make-up sex is if you're sent to prison and you have a conjugal visit.” – Jerry Seinfeld, *Seinfeld*

People commonly believe romantic couples engage in highly passionate sex following conflict (i.e., “make-up sex”)—a notion that is perpetuated by cultural references (as demonstrated by Jerry Seinfeld) and popular psychology (e.g., Ben-Zeev, 2013). Little empirical research, however, has examined the co-occurrence of conflict and sex, the quality of such sex, or its implications for long-term relationship outcomes. Moreover, studies exploring these issues provide conflicting evidence. Given that conflict and sex occur in nearly all long-term relationships, and given that each independently impacts relationship outcomes (e.g., Campbell, Simpson, Boldry, & Kashy, 2005; McNulty, Wenner, & Fisher, 2016; Murray, Holmes, & Pinkus, 2010), the goal of the current study was to explore (a) the frequency with which conflict and sex coincide, (b) whether sex that co-occurs with (versus in the absence of) conflict is indeed more satisfying in the moment, and (c) whether sex that co-occurs with conflict benefits the broader relationship in the moment and over time. When referring to our study, we use the terms sex “co-occurring” and “coinciding” with conflict to mean sex that occurs on the same day as conflict (as from our measures we cannot confirm sex always *followed* conflict). Further, we define conflict as intimates’ reports of a partner’s behavior they did not like, which is consistent with perspectives that conflict need not be limited to specific verbal disagreements (e.g., Canary, Cupach, & Messman, 1995; Guerrero & Floyd, 2006), but rather tend to involve instances where one partner’s actions interfere with the other (Peterson, 1989).

Does Conflict Coincide with Sex?

As previously noted, there is contradictory evidence regarding whether conflict and sex

frequently coincide in romantic relationships (see also Birnbaum, Mikulincer, & Austerlitz, 2013). On the one hand, some studies suggest conflict can act as a sexual catalyst that provides couples with the opportunity to enhance their intimacy. One cross-sectional study, for example, demonstrated that couples who reported more frequent conflict also reported more frequent sex (Christopher & Cate, 1985). Likewise, a daily-diary study of adolescent females demonstrated that intimates who did (versus did not) engage in conflict on a given day were more likely to also engage in sex on that same day (Fortenberry et al., 2005).

Conversely, a somewhat larger body of work demonstrating that negative mood and stress predict sexual dysfunction suggests sex is *less* likely to co-occur with conflict. For example, two independent daily-diary studies demonstrated that intimates were less likely to have sex on days in which they reported relatively high (versus low) negative mood and stress (Burlison, Trevathan, & Todd, 2007; Fortenberry et al., 2005). Moreover, intimates who reported relatively high (versus low) positive mood or positive (versus negative) feelings about their relationships were more likely to engage in sex that same day (Burlison et al., 2007; Dewitte, Van Lankveld, Vandenberghe, & Loeys, 2015) and the next day (Burlison et al., 2007).

Given such contrasting evidence, comprehensive research is needed to advance the literature and provide a clearer understanding of the extent to which conflict and sex co-occur. Perhaps most notably, it is critical such research assess intimates' relationship conflict independent of their negative affect. Although conflict and negative affect are related, they are distinct constructs that may have opposing effects on couples' sexual relationship (see Fortenberry et al., 2005). Moreover, such research must assess both couple members' *daily* sex and conflict (i.e., daily-diary design). Such daily assessments would capture the natural frequency of these behaviors in couples' lives and their immediate implications for the

relationship (Laurenceau & Bolger, 2012), while capitalizing on a dyadic, within-person design. We are not aware of any published research, however, that assesses both couple members' daily occurrences of relationship conflict (independent of negative affect) and sex and thus this was one of the primary goals of the current research.

Is Sex That Coincides with Conflict Especially Satisfying?

Regardless of whether conflict and sex *frequently* coincide, most couples likely engage in conflict and sex on the same day at least occasionally. And it remains unclear whether such sex is more satisfying than sex that occurs in the absence of conflict, as lay beliefs (e.g., Ben-Zeev, 2013) suggest. According to the basic tenets of excitation transfer theory (Zillmann, 1971, 1983), physiological arousal experienced in one situation can transfer over and intensify subsequent situations. Indeed, arousal-inducing situations such as riding a roller coaster (Meston & Frohlich, 2003), exercising (Cantor, Zillmann, & Bryant, 1975), walking across an anxiety-provoking bridge (Dutton & Aron, 1974), or watching a negative-affect-inducing film (White, Fishbein, & Rutsein, 1981) can enhance feelings of sexual attraction (for a review, see Foster, Witcher, Campbell, & Green, 1998). Given that conflict also heightens physiological arousal (see review by Robles & Kiecolt-Glaser, 2003), it is possible that such arousal may spill over to subsequent occurrences of sex such that the sex is experienced as more exciting and arousing.

Nevertheless, there is also reason to believe that sex co-occurring with (versus occurring in the absence of) conflict may be *less* satisfying. Indeed, clinicians have long-recognized conflict as a risk factor for increased sexual issues (for a review, see Metz & Epstein, 2002) and decreased sexual desire (especially among women; Ferreira, Fraenkel, Narciso, & Novo, 2015). Accordingly, intimates who experience relationship conflict may be less satisfied with subsequent occurrences of sex.

Does Sex That Coincides With Conflict Harm or Benefit the Relationship?

There is also conflicting evidence regarding the extent to which the co-occurrence of conflict and sex impacts relationship outcomes. Although relationship conflict is associated with poorer mood (for a review, see Fincham & Beach, 1999) and poorer relationship satisfaction (e.g., Karney & Bradbury, 1995; Kluwer & Johnson, 2007; McGonagle, Kessler, & Gotlib, 1993), sex is associated with more positive mood (Burleson et al., 2007; Debrot et al., 2017; Kashdan et al., 2017) and relationship satisfaction (Meltzer et al., 2017; Muise, Impett, & Desmarais, 2013). Thus, it is possible that, sex that co-occurs with conflict reduces conflict's negative effects and helps buffer its overall impact on that day's relationship functioning. Emerging research supports this possibility. Couple members who touch affectionately report less stress following a laboratory-induced stressor (Jakubiak & Feeney, 2017) and report enhanced intimacy (Debrot, Schoebi, Perrez, & Horn, 2013). Likewise, although not focused on relationship conflict specifically, a daily-experience study of stress and sexual activity demonstrated sex (versus no sex) on a given day was associated with declines in negative mood and anxiety the following day (Burleson et al., 2007).

Although such findings provide suggestive evidence that sex may help couples recover from conflict, insofar as sex can boost mood and lower stress, many of these studies examined recovery from stress arising from evaluative non-relationship laboratory tasks (e.g., Coan, Schaefer, & Davidson, 2006; Robinson, Hoplock, & Cameron, 2015) rather than examining when one's romantic partner is the *source* of stress. Thus, although such literature suggests sex should have positive effects on daily mood and help reduce distress after a stressor, it is unclear whether this remains true when the stressor is conflict with one's partner. Further, there is reason to believe that sex that co-occurs with conflict *harms* intimates' relationship satisfaction. Being

mindful and present during sex is critical for optimal sexual satisfaction and functioning (Brotto, 2018; Kleinplatz & Ménard, 2007); relationship conflict can be cognitively taxing, which could detract from such mindfulness. Indeed, those who are chronically concerned about their relationship (i.e., high in attachment anxiety) experience intrusive worries during sex that detract from their sexual experience (Birnbaum et al., 2006). It is thus possible that conflict weighs on individuals and compromises their ability to enjoy subsequent sexual encounters, which could negatively impact their relationship quality.

The Present Study

In light of the reviewed evidence, we aimed to answer three research questions (given the lack of clear evidence, we refrained from making directional hypotheses). First, we aimed to test whether sex is more likely to occur on days when couples do (versus do not) experience conflict. Second, we aimed to explore whether sex that co-occurs with (versus in the absence of) conflict is more (or less) satisfying. Third, we aimed to explore whether sex buffers the negative effects of conflict on intimates' relationship outcomes (at both the daily level and over time). Although not our primary goal, we also explored potential gender¹ differences given evidence that conflict may enhance men's but lower women's sexual attraction to their partner (Birnbaum et al., 2013).

To test these questions, we used a 14-day daily-diary study of newlywed couples with a 6-month longitudinal follow-up, which allowed us to examine sex and conflict in couples' everyday lives, assess the impact of such sex on both partners, and independently assess each couple members' daily reported conflict and daily mood. The 6-month follow up enabled us to explore whether couples for whom sex more (versus less) frequently co-occurs with conflict

¹ Throughout, we use the term gender to refer to gender/sex differences. During study enrollment, marriage licenses were afforded to unions of a man and a woman, which likely reflects one's sex assigned at birth. To avoid confusion with "sex" the action, we opt to use the term gender.

experience relationship benefits or costs over time. As a reminder we operationalized conflict as something one couple member did that the other disliked. Although research has examined the association between sex and mood across a variety of ages (e.g., adolescents, middle-aged women; see Burleson et al., 2007; Fortenberry et al., 2005), there are advantages to assessing sex and conflict in young, committed couples. Indeed, newlyweds are an opportune sample because, relative to those in more established marriages, those in the first few years of their marriages experience significant change and adjustment (Bradbury, 1998), have a higher risk of divorce (Kreider & Ellis, 2011), highly value sex (Greenblat, 1983), and have more frequent sex (e.g., Call, Sprecher, & Schwartz, 1995; McNulty et al., 2016); meaning the co-occurrence of conflict and sex may be more likely in newlywed couples than in longer-term couples. Yet, relative to those in less committed or non-cohabiting relationships, newlyweds typically have consistent access to their partner (and the possibility of sex) and have high levels of interdependence that provide more opportunities for conflict (Kelley & Thibaut, 1978). Thus, to provide one of the strongest tests to date of the interconnectedness of sex and conflict, we sampled recently married couples. We are unaware of any published studies that directly assess the joint effects of sex and conflict on newlywed couples' daily sexual experiences and relationship functioning.

Method

Participants

Participants were 113 first-married heterosexual newlywed couples. We recruited all participants by mailing invitations to couples who applied for marriage licenses in Dallas County, Texas, USA (for more information about this sample, see McNulty, Meltzer, Makhanova, & Maner, 2018; Meltzer, 2017; Meltzer et al., 2017; Reynolds & Meltzer, 2017, and Supplemental Materials (SM) Section 1). Of the 113 couples (226 individuals) who opted to

participate in the broader study, we excluded 6 couples who did not participate in the diary portion of the study. Thus, our final sample consisted of 107 couples (214 individuals; see Table 1 for demographics²). Notably, our sample was relatively more ethnically diverse than typical studies of first-married newlyweds (Karney & Bradbury, 1995; Karney, Kreitz, & Sweeney, 2004). We determined our sample size by considering the number of eligible couples willing to participate, our available financial resources, and our planned study time period (12 months, although we extended our timeline one month to maximize sample size). Given our central hypotheses were at the daily level (level 1), our final sample of 214 individuals providing 2,539 days of data provided adequate statistical power to detect our effects. Our sample of 107 dyads enabled us to detect small effect sizes for our key daily and longitudinal effects with 80% power (see Finkel, Eastwick, & Reis, 2015 and SM Section 2 for more details).

Table 1

Sample Demographics

	Husbands (<i>N</i> = 107)			Wives (<i>N</i> = 107)		
	<i>M</i> (<i>SD</i>)	%	<i>N</i>	<i>M</i> (<i>SD</i>)	%	<i>N</i>
Age (in years)	28.23 (5.57)	--	106	26.90 (4.77)	--	106
Relationship length (in years)	3.26 (2.69)	--	107	3.31 (2.83)	--	106
Income (in thousands)	44.20 (48.02)	--	98	31.88 (31.05)	--	95
Education (in years)	15.26 (2.81)	--	107	15.92 (2.89)	--	106
Full-time employment	--	71.0%	76	--	54.2%	58
Full-time student	--	12.1%	13	--	12.1%	13
Ethnicity	--			--		
Black	--	28.0%	30	--	26.2%	28
White	--	47.7%	51	--	48.6%	52
Latino/Latina	--	15.9%	17	--	15.0%	16
Other	--	7.4%	8	--	9.3%	10
Religion	--			--		
Christian-Protestant	--	39.3%	42	--	36.4%	39
Christian-Catholic	--	19.6%	21	--	20.6%	22
Agnostic	--	3.7%	4	--	4.7%	5

² Data are available upon request to the second author.

Atheist	--	5.6%	6	--	2.8%	3
None	--	12.1%	13	--	8.4%	9
Other	--	16.8%	18	--	24.2%	26

Note. Percentages for ethnicity and religion do not add up to 100% due to missing responses. Relationship length refers to the time since the couple started dating.

Procedure and Measures

Within the first four months of marriage, intimates completed questionnaires online at Qualtrics.com or by mail (if requested). These questionnaires included an approved consent form, measures assessing intimates' sexual and marital satisfaction, additional measures beyond the scope of these analyses (for a comprehensive list, see SM), and instructions to complete questionnaires independent of one's spouse. Couples received \$100 for completing these baseline questionnaires and participating in a corresponding in-lab session (beyond the current study's scope). The day following their session, spouses completed a 14-day daily diary. Specifically, every night for 14 nights, spouses completed a brief questionnaire assessing their daily (a) relationship conflict, (b) sex, and (c) marital satisfaction, as well as additional measures beyond the scope of these analyses (see SM). Couples received \$1 per person per diary completed, and they received a \$7 bonus if both spouses completed all 14 diaries. On average, wives completed 11.96 diaries ($SD = 3.52$) and husbands completed 11.77 diaries ($SD = 3.84$). Six months subsequent to baseline, we re-contacted couples to complete follow-up questionnaires that again included measures of sexual and marital satisfaction and measures beyond this study's scope (see SM). For descriptive statistics of included measures see Table 2.

Table 2

Descriptive Statistics for Measures

	<i>M</i>	<i>SD</i>	<i>α</i>
Person-Level Measures			
Global marital satisfaction: Baseline	-0.001	0.95	

Quality of Marriage Index	41.34	4.73	.92
Semantic differential	93.93	12.05	.94
Kansas Marital Satisfaction Scale	18.79	2.52	.93
Global marital satisfaction: Follow-up	0.005	0.97	
Quality of Marriage Index	39.94	7.11	.96
Semantic differential	91.70	16.02	.97
Kansas Marital Satisfaction Scale	18.05	3.73	.97
Global sexual satisfaction: Baseline	148.06	20.44	.92
Global sexual satisfaction: Follow-up	145.07	21.84	.93
Daily Measures			
Daily sexual experience	6.34	1.08	N/A (1 item)
Daily global sexual satisfaction	4.90	1.98	N/A (1 item)
Daily Marital Satisfaction	6.22	1.11	.95

Daily conflict. Each day of the diary, participants indicated whether their “spouse did something today that [they] did not like.” Participants who responded yes provided an open-ended description of the conflict.

Daily sexual experience. Each day of the diary, participants indicated whether they had sex with their partner that day. We did not provide a definition of “sex,” and let participants decide what constituted sex to them. Participants who responded yes rated their satisfaction with that sex: “How satisfied were you with the sex you had with your partner today?” on a scale from 1 (*Not at all*) to 7 (*Very much*).

Daily global sexual satisfaction. Each day of the diary, regardless of whether they reported sex, participants indicated their global satisfaction with their sex life (assessed with a single item: “How satisfied were you with your sex life today?;” see Meltzer et al., 2017) on a scale from 1 (*Not at all*) to 7 (*Extremely*).

Daily marital satisfaction. Each day of the diary, participants completed a version of the 3-item Kansas Marital Satisfaction Scale (KMSS; Schumm et al., 1986) that we modified to assess daily marital satisfaction (e.g., “How satisfied were you with your partner today?”). Specifically, participants indicated the extent to which they were a) satisfied with their partner,

b) their relationship with their partner, and c) their marriage that day on a scale from 1 (*Not at all*) to 7 (*Extremely*). We averaged across all available items³ to form an index of daily marital satisfaction.

Global sexual satisfaction. At baseline and the 6-month follow-up, we assessed participants' sexual satisfaction using the Index of Sexual Satisfaction (Hudson, Harrison, & Crosscup, 1981). Participants rated the frequency of 25 statements (e.g., "Our sex life is very exciting") on a scale from 1 (*Never*) to 7 (*Always*). We reverse scored and summed items (range = 25-175) such that higher scores reflect higher sexual satisfaction.

Global marital satisfaction. At baseline and the 6-month follow-up, we assessed participants' marital satisfaction using three scales of global relationship satisfaction: (1) the Quality of Marriage Index (Norton, 1983) that requires participants to indicate their agreement to six general questions about their marriage; (2) a semantic differential scale (Osgood, Suci, & Tannenbaum, 1957) that requires participants to rate their perceptions of their marriage on 7-point scales between 15 pairs of opposing adjectives (e.g., *Dissatisfied—Satisfied*); and (3) the previously described 3-item KMSS [Schumm et al., 1986; e.g., "How satisfied are you with your marriage?," using a scale ranging from 1 (*Not at all satisfied*) to 7 (*Extremely satisfied*)]. Given that all three measures were highly correlated (all $r_s \geq .83$), we standardized participants' totals and averaged across measures, helping to ensure our effects were not limited to one measure.

Analytic Approach

We analyzed our data using mixed modeling and generalized linear mixed modeling (for

³ We inadvertently omitted the question: "How satisfied were you with your relationship with your partner today?" from paper diaries. Thus, for the diaries completed on paper ($n = 123$ diaries), we averaged the two questions they answered (satisfaction with their partner and their marriage, $\alpha = .92$).

the odds-ratio analyses) in SPSS version 24. Because both couple members completed all diaries on the same day, we estimated 2-level cross models with random intercepts, where we nested persons within dyads and crossed person and days (Kenny, Kashy, & Cook, 2006; see Section 3 of SM for all syntaxes). In instances where gender moderated effects, we report separate effects for husbands and wives; in instances where gender did not moderate effects, results are pooled across husbands and wives (though we retained the interaction terms in these models).

For all analyses, we treated both conflict and sex as dyadic variables. Spouses do not always report the same daily behaviors including conflict and sex (Jacobson & Moore, 1981), and oftentimes a combination of couple members' reports best reflects reality (Funder, 1987). Indeed, couple members' reports of conflict and sex were correlated (for conflict, $r = .31$; for sex, $r = .83$). We effects-coded daily conflict such that -1 = neither partner reported conflict and 1 = one or both partners reported conflict.⁴ We reasoned that even if just one couple member disliked their partner's behavior on a given day, their dissatisfaction likely shapes whether sex occurs (Kelley & Thibaut, 1978) because both parties must agree to sex. We effects-coded daily sex such that -1 = neither partner reported sex and 1 = one or both partners reported sex.

Results

Across all 2,539 diary entries, couples reported (a) conflict on 494 days (per couple, range = 0-7 days, $M = 2.33$, $SD = 1.85$), (b) sex on 864 days (per couple, range = 0-13 days, $M = 4.15$, $SD = 2.88$), and (c) co-occurring conflict and sex on 140 days (per couple, range = 0-6 days, $M = 0.68$, $SD = 1.13$).

Do Conflict and Sex Frequently Co-Occur?

To test whether conflict and sex frequently occur on the same day, we estimated a

⁴ We report results using actor and partner reports of conflict in the SM Section 5.

generalized linear mixed model predicting the binary outcome of sex (No = 0, Yes = 1) from couples' reports of conflict (conflict = reference). Conflict on a given day was unassociated with the likelihood of sex on the same day, *odds ratio* (*OR*) = 0.86, *CI*_{95%} [0.56, 1.32], *p* = .494. To explore whether conflict predicts sex the next day, we repeated the previous analysis but replaced the outcome variable with whether couples reported sex the next day, controlling for sex the same day. Conflict on a given day predicted a *lower* likelihood of sex the next day, *OR* = 0.60, *CI*_{95%} [0.38, 0.95], *p* = .029. Put another way, couples were 1.68 times more likely to have sex the day following a non-conflict day relative to a conflict day.

Is Sex that Co-Occurs with Conflict Especially Satisfying?

Daily satisfaction with sexual experience. We regressed intimates' reports of sexual satisfaction when sex occurred onto Conflict, Gender (-1 = Wives, 1 = Husbands), and the Conflict × Gender interaction. On days when dyads reported co-occurring conflict and sex, intimates rated the sexual experience as less satisfying (see Figure 1), *b* = -0.27, *CI*_{95%} [-0.38, -0.16], *t*(339.80) = -4.79, *p* < .001, effect-size *r* = .25, relative to sex that occurred on a day without conflict.

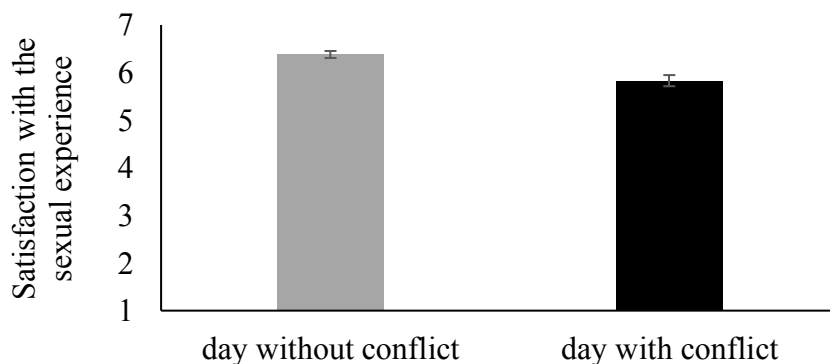


Figure 1. Intimates' satisfaction with sexual experiences on conflict relative to non-conflict days.

Daily global sexual satisfaction. We regressed intimates' daily global feelings of satisfaction with their sex life (answered on all days) onto daily conflict, daily sex, intimates'

gender, and all possible interactions. Intimates reported lower global sexual satisfaction on days in which conflict occurred, $b = -0.24$, $CI_{95\%} [-0.33, -0.16]$, $t(1134.60) = -5.56$, $p < .001$, effect-size $r = .16$, but higher global sexual satisfaction on days in which sex occurred, $b = 0.88$, $CI_{95\%} [0.80, 0.97]$, $t(1146.41) = 19.82$, $p < .001$, effect-size $r = .51$; no higher-order interactions reached significance (all $ps > .170$).

Baseline and follow-up global sexual satisfaction. To test whether the frequency of couples' co-occurring conflict and sex was associated with intimates' global sexual satisfaction at baseline and the 6-month follow-up, we again estimated a mixed model [this time to account for the two repeated assessments (0 = baseline, 1 = follow-up) nested within spouses] that regressed sexual satisfaction onto the intercept, time, couples' co-occurring sex and conflict frequency (aggregated over the diary; grand-mean centered), couples' conflict frequency and sex frequency (each aggregated over the diary; both grand-mean centered), and the three-way interaction of each of these frequency variables with gender and time (and applicable lower-order terms); we additionally estimated a random slope for time. There was no significant main effect of couples' co-occurring conflict and sex frequency, $b = -.28$, $CI_{95\%} [-3.92, 4.48]$, $t(96.31) = 0.13$, $p = .895$, effect-size $r = .01$, nor interactions between such co-occurrence and time or between co-occurrence, time, and gender ($ps > .173$). That is, couples' co-occurring conflict and sex frequency was unassociated with intimates' initial sexual satisfaction and changes in satisfaction over time.

Does the tendency for sex and conflict to coincide predict relationship outcomes?

Daily marital satisfaction. To explore whether sex altered the effects of conflict on relationship quality, we regressed intimates' daily marital satisfaction onto daily conflict, daily sex, gender, and all possible interactions. As depicted in Figure 2, the association between

conflict and intimates' daily marital satisfaction, $b = -0.43$, $CI_{95\%} [-0.49, -0.38]$, $t(1144.49) = -16.22$, $p < .001$, effect-size $r = .43$, depended on daily sex, $b = 0.08$, $CI_{95\%} [0.03, 0.13]$, $t(1130.90) = 3.16$, $p = .002$, effect-size $r = .09$, such that the negative association between daily conflict and intimates' daily marital satisfaction was weaker on days the couple engaged in sex, $b = -0.35$, $CI_{95\%} [-0.44, -0.27]$, $t(1151.12) = -7.97$, $p < .001$, effect-size $r = .23$, relative to days when sex did not occur, $b = -0.52$, $CI_{95\%} [-0.57, -0.46]$, $t(1108.04) = -17.70$, $p < .001$, effect-size $r = .47$.

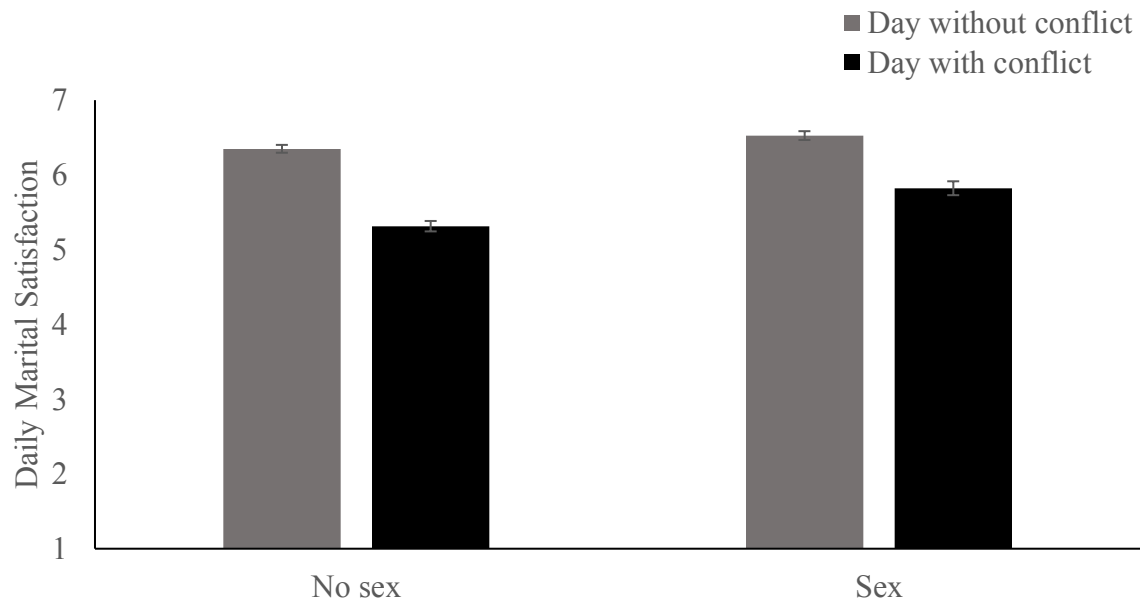


Figure 2. Associations between daily conflict, sex, and intimates' daily marital satisfaction.

Temporal sequence. To inform the causal direction of our findings, we conducted two analyses. First, we examined whether sex on a conflict day predicted changes in marital satisfaction from the previous day, by repeating the daily marital satisfaction model above (regressing daily marital satisfaction onto conflict, sex, gender, and all interactions), controlling for *yesterday's* (person-centered) marital satisfaction. Second, we examined whether sex on a conflict day could predict increases in marital satisfaction that extend to the following day, by regressing *tomorrow's* marital satisfaction onto today's conflict, today's sex, gender, and all

interactions, controlling for today's (person-centered) marital satisfaction. Our original key finding—that sex partially reduced the negative effect of conflict on marital satisfaction—remained significant when controlling for yesterday's satisfaction, but did not predict tomorrow's satisfaction (see Section 4 of SM), suggesting that engaging in sex on the same day as conflict dampened reductions in marital satisfaction from the previous day, but did not carry over to affect the next day's satisfaction.

Baseline and follow-up global marital satisfaction. To test whether the frequency of couples' co-occurring conflict and sex was associated with intimates' marital satisfaction at baseline and at the six-month follow-up, we re-estimated the comparable analyses for sexual satisfaction (described above) but replaced global sexual satisfaction with global marital satisfaction. There was no significant main effect of co-occurring conflict and sex frequency on intimates' marital satisfaction, $b = .05$, $CI_{95\%} [-0.16, 0.25]$, $t(98.75) = 0.46$, $p = .650$, effect-size $r = .05$, nor were there interactions between such co-occurrence and time or between time, co-occurrence, and gender ($ps > .186$), suggesting couples' co-occurring conflict and sex frequency was unassociated with intimates' initial marital satisfaction and changes in marital satisfaction over time.

Additional Analyses

We conducted additional analyses to ensure our effects were not attributable to negative affect, conflict frequency, sexual frequency, whether the conflict involved sex/affection, or conflict severity. By and large, our pattern of results remained robust to these variables (for analyses and results, see Section 3 of SM).

Discussion

Our results do not support the lay idea that “make-up sex” is especially satisfying.

Indeed, intimates enjoyed sex less on conflict (versus non-conflict) days. Nevertheless, sex did partially buffer intimates against reduced daily marital (but not global sexual) satisfaction on days when conflict co-occurred. Moreover, the frequency with which conflict and sex co-occurred was unassociated with intimates' global sexual and marital satisfaction at the start of marriage or changes in these variables over time, despite having adequate statistical power to detect relatively small effects.

Our study is one of the first to our knowledge to examine the co-occurrence of conflict and sex in a dyadic daily-diary context. Although there is emerging research on mood and sex (e.g., Burluson et al., 2007), conflict is distinct from negative affect, and our results hold independent of intimates' daily affect. Likewise, the current study extends prior work on stress and affection (e.g., Jakubiak & Feeney, 2017) by examining contexts in which intimates' partners are the *source* of stress. Moreover, we provide a strong, ecologically valid test of relational conflict and sex by examining these events in newlywed couples' everyday lives.

Our study contributes to the integration of sex and relationship research (Diamond, 2013; Maxwell & McNulty, 2019; Muise, Maxwell, & Impett, 2018) by adding to emerging research examining the role of touch and affection in couples' daily lives (e.g., Debrot et al., 2017) and to the growing recognition that everyday sexual experiences are shaped by broader relationship contexts (e.g., Dewitte et al., 2015). Indeed, our findings underscore the importance of considering the daily relationship context, as daily conflict may be one critical context in which sex may be less enjoyable. Given conflict is often associated with lower mood, our findings also fit with research demonstrating that having sex when not particularly in the mood yields both benefits and drawbacks for intimates (e.g., Kim, Muise, & Impett, 2018). From an applied perspective, our study provides empirical support that refutes popular lay notions of sex that co-

occurs with conflict, which is important given that media portrayals of sexuality often lack scientific support (e.g., Ménard & Kleinplatz, 2008). Our findings can thus be useful for clinicians to dispel such popular myths.

The current findings also contribute to the literature on relationship conflict by elucidating a previously under-explored way that couples can momentarily cope with conflict in everyday life: having sex. Our finding that sex partially reduced the negative effect of conflict on marital satisfaction implies that sex may, at least in the moment, be a successful strategy to buffer against the immediate negative implications of conflict. We would be remiss, however, if we did not acknowledge that such a strategy may not be effective in the long term. Indeed, in the current study, the co-occurrence of conflict and sex was unassociated with marital satisfaction six months later (though future research should examine longer follow-up periods). If sex is used as an attempt to resolve a conflict, it may be a welcome distraction in the moment—similar to other indirect positive behaviors such as humor (see review by Overall & McNulty, 2017)—but ultimately the issues may remain unresolved, and subsequent relationship quality may suffer. Future research may benefit from examining long-term effects among couples who *often* have sex as a strategy to reduce conflict.

It is also worth noting that having sex on a conflict day did not affect intimates' global satisfaction with their sex life. This may be in part because such global feelings tend to be more stable than feelings of relational satisfaction (e.g., Fallis, Rehman, Woody, & Purdon, 2016; Maxwell et al., 2017). Nevertheless, future research may benefit from further exploring this issue.

Limitations and Future Directions

Despite our study's strengths, there are certainly limitations that open the possibility for

future research. As aforementioned, there are several advantages to studying newlyweds; nevertheless, it remains unclear whether our results generalize to longer-term couples. There is some evidence that the ability of sex to improve one's mood may be dampened for those in longer-term relationships (i.e., over 20 years; Burleson et al., 2007). Further, because our newlyweds were highly satisfied, we detected a relatively low incidence of daily conflict (e.g., Campbell et al., 2005), which consequently limited instances where sex coincided with conflict. Given the typically high relationship satisfaction of newlyweds, we opted to conceptualize conflict broadly—as any partner behavior the participant did not like—and did not examine the extent to which a verbal disagreement occurred between partners. Although our results held controlling for negative affect and were not driven by conflict severity, it is nevertheless possible that different results could occur if we limited our definition of conflict to times both partners agree they engaged in a verbal disagreement. Although we had enough instances of conflict in which to test our hypotheses, different results may occur in samples with more frequent and severe conflicts or with lower marital satisfaction (i.e., non-newlywed samples), and future research would benefit from testing these possibilities.

In light of the typically high levels of relationship satisfaction in newlywed couples, we presumed we were capturing instances of consensual, wanted sexual experiences. This may have not been the case, however, given that 13% of U.S. spouses report their partner has forced unwanted sex (Basile, 2002; see also Smith et al., 2018). It is also possible couple members were not coerced to have sex following conflict, but rather willingly engaged in unwanted sex (i.e., sexual compliance; for a review, see Impett & Peplau, 2003), which is a common occurrence in relationships (Katz & Tirone, 2010) and might have accounted for why the sexual experiences were less satisfying. It is possible we captured some instances of sexual compliance following

conflict, especially given achieving intimacy is a common motivation for complying with a partner's sexual wishes (Impett & Peplau, 2003). It is important for future work to (a) confirm sexual experiences following conflict are wanted and consensual and (b) assess whether individuals feel increased pressure to have sex after conflict.

Additionally, from our data, we are unable to identify the exact mechanism through which sex reduces, at least partially, the negative effects of conflict on daily relationship quality. One possibility may be that sex restores feelings of intimacy lost during conflict (Prager et al., 2015). Likewise, we are unable to identify why sex that co-occurs with (versus occurs in the absence of) conflict is less satisfying. Perhaps sex that co-occurs with conflict is characterized by less cuddling or less foreplay and “mood setting,” which all contribute to lower sexual satisfaction (Frederick, Lever, Gillespie, & Garcia, 2017). Future research would benefit from examining intimacy and other potential mechanisms.

Lastly, although the additional temporal-sequence analyses provide some evidence for causal ordering, we are unable to draw conclusive causal claims. Given this study was designed for broader research questions, we unfortunately did not directly assess whether sex occurred after (versus before) conflict; although it is likely that sex followed conflict in most cases because sex typically occurs at night right before couples sleep (Dutton, 2003). Future studies could more directly assess how close in time sex and conflict occurred, and directly assess whether sex was an attempt to resolve conflict.

Conclusion

Should couples engage in “make-up” sex? The current results suggest such sex may offer some short-term benefits, but that couples should also temper their expectations accordingly. Although sex helped to buffer the negative implications of conflict for intimates' daily marital

satisfaction, it did not buffer against global marital satisfaction or changes in marital satisfaction over time. Future research may uncover why cultural myths about passionate make-up sex pervade.

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Marital satisfaction: Quality of Marriage Index.

Please indicate how well the following statements describe you and your marriage.

	Very Strong Disagreement (1)	(2)	(3)	(4)	(5)	(6)	Very Strong Agreement (7)
We have a good marriage. (qmi1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My relationship with my spouse is very stable. (qmi2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Our marriage is strong. (qmi3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My relationship with my spouse makes me happy. (qmi4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I really feel like part of a team with my spouse. (qmi5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

(qmi6) All things considered, how happy are you in your marriage?

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Very unhappy									Perfectly Happy

Marital satisfaction: Kansas Marital Satisfaction Scale.

Please answer the following questions.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all satisfied							Extremely Satisfied

1. How satisfied are you with your spouse?
2. How satisfied are you with your relationship with your spouse?
3. How satisfied are you with your marriage?

- 23 My partner is very sensitive to my sexual needs and desires.
- 24 My partner does not satisfy me sexually.
- 25 I feel that my sex life is boring.

Daily Diary**Conflict.**

Did your spouse do something today that you did not like?

- Yes
- No

Satisfaction with sexual experience.

Did you have sex with your partner today?

- No
- Yes

If participant indicated yes, they were asked:

How satisfied were you with the sex you had with your partner today?

-
- Not at all Very Much

Daily global sexual satisfaction.

In reflecting on the day as a whole, please answer the following questions.

How satisfied were you with your sex life TODAY?

-
- Not at all Extremely

Daily marital satisfaction.

In reflecting on the day as a whole, please answer the following questions.

-
- Not at all Extremely

How satisfied were you with your partner TODAY?

How satisfied were you with your relationship with your partner TODAY?

How satisfied were you with your marriage TODAY?

Additional Questionnaires Not Assessed

Baseline Questionnaires

As part of their baseline questionnaires (prior to an in-lab session beyond the scope of the current study), spouses completed additional measures beyond the scope of the current study. The additional measures included an inventory of marital problems, four measures of commitment, two measures of depression, a measure of self-esteem, a measure of relationship constraint, a measure of forgiveness, a measure of relationship attribution, a measure of social desirability, a measure of relational self-construal, a survey of life events, a measure of conflict tactics, a satisfaction with life measure, a Big Five personality measure, two measures of attachment, a measure of self-compassion, a measure of narcissism, a measure of relational self-efficacy, a measure of self-control, a measure of distress, a measure of motivation to resolve problems, a measure of approach and avoidance motivations, an ambivalent sexism measure, a measure of gratitude, a measure of implicit theories of weight, a measure of mate guarding, a measure of maximizing, a sex-role orientation measure, a measure of relationship trust, a measure of health motivations, a measure of sociosexuality, a measure of body esteem, a measure of perfectionism, three measures of sexual objectification, a measure of self-motivation, a measure of multidimensional health locus of control, a lifetime exercise measure, three measures assessing people's reasons for eating and exercising, two measures assessing physical health, a sleep and fatigue measure, an anxiety measure, a measure of relational power, a measure of free will and determinism, a measure of jealousy, a measure of passionate love, a measure of willingness to sacrifice, a measure of the ability to adopt a third-party perspective, menstrual-cycle information (wives only), and various demographic information.

Additional Daily-Diary Questionnaires

In addition to the questions mentioned in the measures section, each day we asked couples: to list everything they ate or drank that day, six questions about their food choice motivations, nine questions about their physical activity/exercise and motivations, seven questions about their eating patterns with their spouse, eleven questions about their mood [five emotions assessing negative affect analyzed in Section 3 of the Supplemental Materials: depressed, angry, sad, hurt, and happy (reverse scored), and the remaining six emotions were unrelated to our research questions and were: dominant, powerful, masculine, assertive, good about myself, overwhelmed], one question about their commitment, one question regarding their sexual attraction to their partner, one question regarding their desire for sex, one question regarding their sexual attractiveness, two items regarding their approach-motivation for having sex, one item regarding their avoidance-motivation for having sex, ten questions about their appearance/weight loss motivation, three questions about their interactions with friends, and for women only five questions about their menstrual cycle. We also asked them to perceive their partner's: marital satisfaction (three questions), commitment (one question), sexual satisfaction (one question), and sexual attraction towards the self (one question).

Further, if the participant indicated their partner did something that day they didn't like (in addition to the two questions assessing conflict severity analyzed in Section 3 of the Supplemental Materials: how much they disliked the behavior and how felt hurt by the behavior) we asked them in an open-ended format to describe what their partner did, as well as how much did you: *Criticize your partner for the behavior? Express anger to your partner for the behavior? Demand that your partner refrain from the behavior in the future? Insult or put your partner down because of the behavior? Avoid your partner because of the behavior? Withhold affection from your partner because of the behavior? Act passive-aggressively toward your*

partner because of the behavior? Express forgiveness to your partner for the behavior?. We did not analyze these conflict variables, given our central focus is on sex as a conflict resolution strategy, and not on other strategies. We also asked them how much did your partner apologize or make amends for the behavior?, as well as the extent to which they currently Feel like the behavior was your fault? Feel like the behavior was your partner's fault? Feel like the source of that behavior is unlikely to change? Feel like the source of that behavior is likely to lead to other problems?.

Additional Follow-up Questionnaires

As part of the 6-month follow-up assessment, spouses completed additional measures beyond the scope of the current study. The additional measures included: various demographic information, an inventory of marital problems, four measures of commitment, a measure of satisfaction with life, a measure of depression, a measure of self-esteem, a survey of life events, a measure of relational self-construal, a measure of conflict tactics, a measure of distress, a measure of attachment, a measure of self-control, two measures of approach and avoidance motivations, a measure of implicit theories of weight, three measures of sexual objectification, a measure of mate guarding, a measure of relationship trust, a measure of weight/health motivations, a measure of sexual frequency, a measure of sociosexuality, a measure of body esteem, a measure of eating attitudes, a measure of lifetime exercise, two measures of restrained eating/eating regulation, a measure of passionate love, a measure of reasons for exercising, a measure of willingness to sacrifice for a partner, a measure of relational power, a measure of free will and determinism, a measure of regulation of exercise, a measure of the ability to adopt a third-party perspective, a general survey of one's physical and mental health, a measure of jealousy, and menstrual-cycle and contraception information (wives only).

Section 2: Power Analyses

1) When testing daily-diary effects:

Using the two formulas described in Finkel et al. (2015), we first assessed our effective sample size when examining satisfaction with one's sexual experience (a conservative test because we assessed such satisfaction only on days couples had sex). These calculations revealed our effective sample size was 391 (accounting for dyadic data and conservatively assuming a level-2 predictor).

We first estimated the ICC using the mixed-model function in SPSS:

```
MIXED
sx_sat_A
/RANDOM INTERCEPT | SUBJECT(CoupleID*Day) COVTYPE(UNR).
```

$$\begin{aligned} ICC &= \text{Level 1 variability} / (\text{Level 1 variability} + \text{Level 2 variability}) \\ &= .498 / (.498 + .68) = .423 \end{aligned}$$

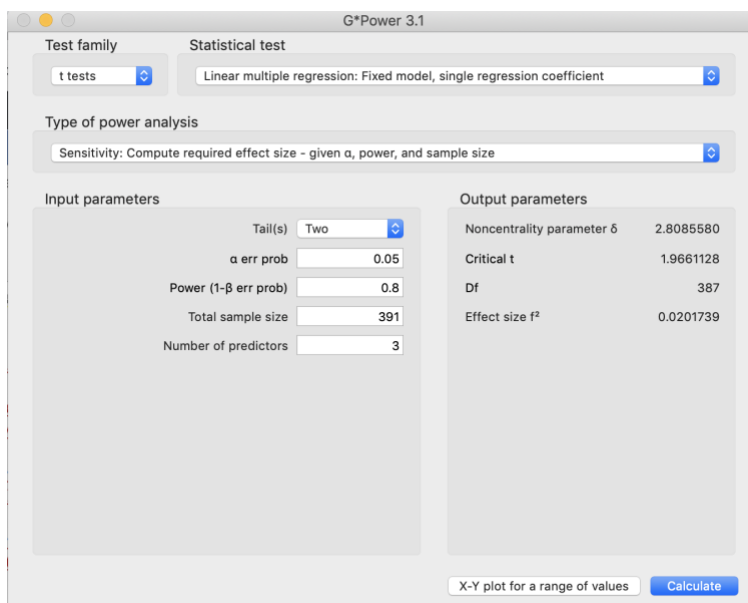
Next, we used the Diary formula supplied in Finkel et al. (2015):

$$\begin{aligned} \text{Effective sample size} &= Nk / (1 + (k - 1) * ICC) \\ &= 214(14) / (1 + (14-1) * .423) = \mathbf{461} \end{aligned}$$

We then used the APIM formula supplied in Finkel et al. (2015):

$$\begin{aligned} \text{Effective sample size} &= N / (1 + ICC_2) \\ &= 461 / (1 + .423 * .423) = \mathbf{391} \end{aligned}$$

We then used this effective sample size to conduct a sensitivity analysis in G*Power (Faul, Erdfelder, Lang, & Buchner, 2007).



These results suggested that, when predicting effects at the daily level, we had sufficient power to observe an effect size of $f^2 = .02$, which is considered a small effect (Cohen, 1988). We followed this same protocol (i.e., calculate ICC, estimate effective sample sizes, perform sensitivity analysis) for the odds-ratio analyses and the over-time analyses.

2) When testing odds ratios (dyadic outcome):

We first estimated the ICC using the genlinmixed-model function in SPSS (with no predictors):

GENLINMIXED

```
/DATA_STRUCTURE SUBJECTS=CoupleID*PersonID_A*Day
/FIELDS TARGET=sex.NO.dyad TRIALS=NONE OFFSET=NONE
/TARGET_OPTIONS REFERENCE = 0 DISTRIBUTION=BINOMIAL LINK=LOGIT
/RANDOM_USE_INTERCEPT=TRUE SUBJECTS=CoupleID
COVARIANCE_TYPE=UNSTRUCTURED
/RANDOM_USE_INTERCEPT=TRUE SUBJECTS=CoupleID*Day
COVARIANCE_TYPE=UNSTRUCTURED
```

$$\begin{aligned} ICC &= \text{random} / (\text{random} + \text{residual}) \\ &= 3.43 / (3.43 + 1) = .774 \end{aligned}$$

Next, we used the Diary formula supplied in Finkel et al. (2015):

$$\begin{aligned} \text{Effective sample size} &= Nk / (1 + (k - 1) * ICC) \\ &= 214 * 14 / (1 + (14 - 1) * .774) = \mathbf{270} \end{aligned}$$

We then conducted a sensitivity analysis in G*Power (Faul et al., 2007).

G*Power 3.1

Test family: z tests

Statistical test: Logistic regression

Type of power analysis: Sensitivity: Compute required effect size - given alpha, power, and sample size

Input parameters:

- Tail(s): Two
- Effect direction: p2 <= p1
- alpha err prob: 0.05
- Pr(Y=1|X=1) H0: 0.28
- Power (1-β err prob): 0.8
- Total sample size: 270
- R² other X: 0
- X distribution: Binomial
- X parm π: 0.8

Output parameters:

- Critical z: -1.9599640
- Odds ratio: 0.3406751
- Actual power: 0.8000000

X-Y plot for a range of values [Calculate]

These results suggested we had sufficient power to observe an effect size of *Odds Ratio* = .34 (or 2.94 inverted), which is considered a small to medium effect (Chen, Cohen, & Chen, 2011).

3) When testing over time effects:

We first estimated the ICC using the mixed-model function in SPSS (with no predictors):

MIXED

maritalsat

/RANDOM INTERCEPT | SUBJECT(CoupleID*time) COVTYPE(UNR)

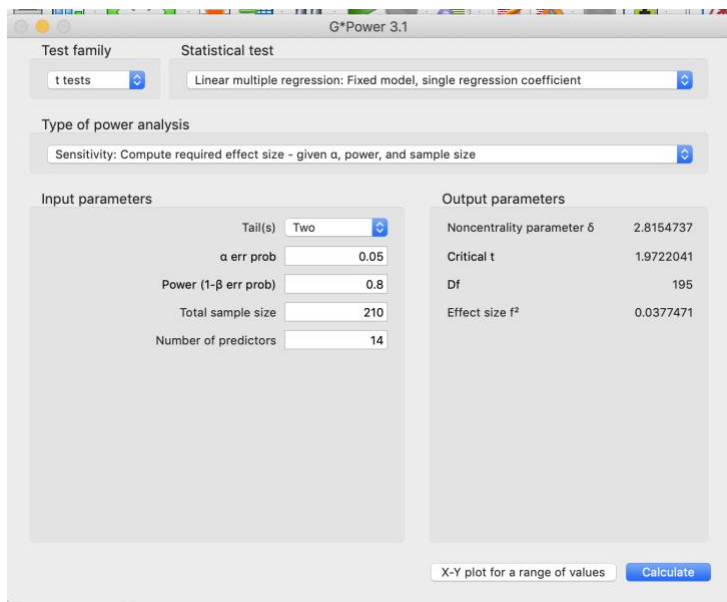
$$ICC = .50 / (.50 + .41) = .554$$

Next, we used the Diary and APIM formulas supplied in Finkel et al. (2015):

$$\begin{aligned} \text{Longitudinal: Effective Sample size} &= Nk / (1 + (k - 1) * ICC) \\ &= 214 * 2 / (1 + (2 - 1) * .554) = 275 \end{aligned}$$

$$\begin{aligned} \text{Dyadic: Effective sample size} &= N / (1 + ICC_2) \\ &= 275 / (1 + .554 * .554) = 210.73 \end{aligned}$$

We then conducted a sensitivity analysis in G*Power (Faul et al., 2007).



These results suggested we had sufficient power to observe an effect size of $f^2 = .038$, which is considered a relatively small effect (Cohen, 1988).

Section 3: SPSS Syntax for Main Analyses

1. Does Relational Conflict Coincide With Sex?

Note. Sex.No.dyad: 1= either member of couple reported sex 0= neither couple member reported sex. Conflict.YES.dyad: 1= neither couple member reported conflict, 0 = either couple member reported conflict.

GENLINMIXED

```
/DATA_STRUCTURE SUBJECTS=CoupleID*PersonID_A*Day
/FIELDS TARGET=sex.NO.dyad TRIALS=NONE OFFSET=NONE
/TARGET_OPTIONS REFERENCE = 0 DISTRIBUTION=BINOMIAL LINK=LOGIT
/FIXED EFFECTS=conflict.YES.dyad
  USE_INTERCEPT=TRUE
/RANDOM USE_INTERCEPT=TRUE SUBJECTS=CoupleID
COVARIANCE_TYPE=UNSTRUCTURED
/RANDOM USE_INTERCEPT=TRUE SUBJECTS=CoupleID*Day
COVARIANCE_TYPE=COMPOUND_SYMMETRY
/BUILD_OPTIONS TARGET_CATEGORY_ORDER=ASCENDING
INPUTS_CATEGORY_ORDER=ASCENDING MAX_ITERATIONS=100
  CONFIDENCE_LEVEL=95 DF_METHOD=RESIDUAL COVB=MODEL
/EMMEANS_OPTIONS SCALE=ORIGINAL PADJUST=LSD.
```

GENLINMIXED

```
/DATA_STRUCTURE SUBJECTS=CoupleID*PersonID_A*Day
/FIELDS TARGET=leadsex.NO.dyad sex.r.dyad TRIALS=NONE OFFSET=NONE
/TARGET_OPTIONS REFERENCE=0 DISTRIBUTION=BINOMIAL LINK=LOGIT
/FIXED EFFECTS=conflict.YES.dyad sex.r.dyad
  USE_INTERCEPT=TRUE
/RANDOM USE_INTERCEPT=TRUE SUBJECTS=CoupleID
COVARIANCE_TYPE=UNSTRUCTURED
/RANDOM USE_INTERCEPT=TRUE SUBJECTS=CoupleID*Day
COVARIANCE_TYPE=COMPOUND_SYMMETRY
/BUILD_OPTIONS TARGET_CATEGORY_ORDER=ASCENDING
INPUTS_CATEGORY_ORDER=ASCENDING MAX_ITERATIONS=100
  CONFIDENCE_LEVEL=95 DF_METHOD=RESIDUAL COVB=MODEL
/EMMEANS_OPTIONS SCALE=ORIGINAL PADJUST=LSD.
```

2. Is Sex That Coincides With Relational Conflict Especially Satisfying?

Note. Gender_A: -1= Wife, 1= Husband. Conflict.r.dyad: -1 neither report conflict, 1 = either report conflict

a) Daily Sexual Experience

MIXED

```

sx_sat_A WITH conflict.r.dyad gender_A
/FIXED = gender_A conflict.r.dyad gender_A*conflict.r.dyad
/PRINT = SOLUTION TESTCOV
/RANDOM INTERCEPT | SUBJECT(CoupleID) COVTYPE(UNR)
/REPEATED=gender_A | SUBJECT (CoupleID*day) COVTYPE(CSH).

```

b) Daily Sexual Satisfaction

Note. Sex.r.dyad -1= neither couple member reported sex, 1 = either couple member reported sex.

MIXED

```

sexsat_A WITH conflict.r.dyad sex.r.dyad gender_A
/FIXED = gender_A conflict.r.dyad sex.r.dyad conflict.r.dyad*sex.r.dyad
gender_A*conflict.r.dyad gender_A*sex.r.dyad gender_A*sex.r.dyad *conflict.r.dyad
/PRINT = SOLUTION TESTCOV
/RANDOM INTERCEPT | SUBJECT(CoupleID) COVTYPE(UNR)
/REPEATED=gender_A | SUBJECT (CoupleID*day) COVTYPE(CSH).

```

i) Over time

Note. Cdyadsexconflictcoindice_sum is the number of days per participant that either member of the dyad reported conflict when the dyad had sex (grand-mean centered). Cconflict.NO.dyad_sum is the number of days per participant that either member of the couple reported a conflict (grand-mean centered). Csex.No.dyad_sum is the number of days per participant that either member of the couple reported sex (grand-mean centered).

MIXED

```

sexsat WITH gender_A time Cdyadsexconflictcoindice_sum Cconflict.NO.dyad_sum
Csex.NO.dyad_sum
/FIXED = time gender_A Cdyadsexconflictcoindice_sum Cconflict.NO.dyad_sum
Csex.NO.dyad_sum
Cdyadsexconflictcoindice_sum*gender_A
Cconflict.NO.dyad_sum*gender_A
Csex.NO.dyad_sum*gender_A
gender_A*time
Cdyadsexconflictcoindice_sum*time

```

```

Cconflict.NO.dyad_sum*time
Csex.NO.dyad_sum*time
Cdyadsexconflictcoindice_sum*gender_A*time
Cconflict.NO.dyad_sum*gender_A*time
Csex.NO.dyad_sum*gender_A*time
/PRINT = SOLUTION TESTCOV
/RANDOM INTERCEPT time | SUBJECT(CoupleID) COVTYPE(UNR)
/REPEATED=gender_A | SUBJECT (CoupleID*time) COVTYPE(CSH).

```

3. Does the tendency for sex and conflict to coincide predict relationship outcomes?

a) *Daily marital satisfaction*

```

MIXED
dailyrelsat_A WITH conflict.r.dyad sex.r.dyad gender_A
/FIXED = gender_A conflict.r.dyad sex.r.dyad conflict.r.dyad*sex.r.dyad
gender_A*conflict.r.dyad gender_A*sex.r.dyad gender_A*sex.r.dyad *conflict.r.dyad
/PRINT = SOLUTION TESTCOV
/RANDOM INTERCEPT | SUBJECT(CoupleID) COVTYPE(UNR)
/REPEATED=gender_A | SUBJECT (CoupleID*day) COVTYPE(CSH).

```

i) *Temporal Sequence*

```

MIXED
dailyrelsat_A WITH conflict.r.dyad sex.r.dyad gender_A lagPCdailyrelsat_A
/FIXED = gender_A conflict.r.dyad sex.r.dyad lagPCdailyrelsat_A conflict.r.dyad*sex.r.dyad
gender_A*conflict.r.dyad gender_A*sex.r.dyad gender_A*sex.r.dyad *conflict.r.dyad
/PRINT = SOLUTION TESTCOV COVB
/RANDOM INTERCEPT | SUBJECT(CoupleID) COVTYPE(UNR)
/REPEATED=gender_A | SUBJECT (CoupleID*day) COVTYPE(CSH).

```

```

MIXED
leaddailyrelsat_A WITH conflict.r.dyad sex.r.dyad gender_A PCdailyrelsat_A
/FIXED = gender_A conflict.r.dyad sex.r.dyad PCdailyrelsat_A conflict.r.dyad*sex.r.dyad
gender_A*conflict.r.dyad gender_A*sex.r.dyad gender_A*sex.r.dyad *conflict.r.dyad
/PRINT = SOLUTION TESTCOV COVB
/RANDOM INTERCEPT | SUBJECT(CoupleID) COVTYPE(UNR)
/REPEATED=gender_A | SUBJECT (CoupleID*day) COVTYPE(CSH).

```

ii) *Over time*

```

MIXED
maritalsat WITH gender_A time Cdyadsexconflictcoindice_sum Cconflict.NO.dyad_sum
Csex.NO.dyad_sum
/FIXED = time gender_A Cdyadsexconflictcoindice_sum Cconflict.NO.dyad_sum
Csex.NO.dyad_sum
Cdyadsexconflictcoindice_sum*gender_A

```

```
Cconflict.NO.dyad_sum*gender_A  
Csex.NO.dyad_sum*gender_A  
gender_A*time  
Cdyadsexconflictcoindice_sum*time  
Cconflict.NO.dyad_sum*time  
Csex.NO.dyad_sum*time  
Cdyadsexconflictcoindice_sum*gender_A*time  
Cconflict.NO.dyad_sum*gender_A*time  
Csex.NO.dyad_sum*gender_A*time  
/PRINT = SOLUTION TESTCOV  
/RANDOM INTERCEPT time | SUBJECT(CoupleID) COVTYPE(UNR)  
/REPEATED=gender_A | SUBJECT (CoupleID*time) COVTYPE(CSH).
```

Section 4: Additional Analyses

Controlling for Mood

To help isolate the variance unique to conflict independent of intimates' negative mood, we assessed participants' mood each day of the 14-day diary. Specifically, participants indicated the extent to which they experienced the following emotions that day: depressed, angry, sad, hurt, and happy (reverse scored), using a scale ranging from 1 (*Not at all*) to 7 (*Extremely*), which we averaged together to create a composite of negative mood ($\alpha = .81$). Participants on average reported relatively low negative affect ($M = 1.83$, $SD = .99$).

In order to ensure our effects were not driven by differences in negative affect on conflict relative to non-conflict days, we repeated our analyses adding to each model (including all follow-up simple-effects analyses) actors' and partners' daily negative affect (person-centered), as well as their aggregate negative mood over the diary. Controlling for mood did not alter the reported effects, with one exception: When predicting likelihood of sex the following day, the effect of conflict dropped to non-significant, $OR = 0.61$, 95% CI [.37, 1.01], $p = .055$.

Controlling for Frequency of Conflict

We repeated the original analyses adding to each model the dyad's total number of conflicts reported across all diary assessments (grand-mean centered). Controlling for frequency of conflict across the 14 days of the diary did not alter the reported effects.

Controlling for Frequency of Sex

We repeated the original analyses¹ adding to each model the total number of times the dyad had sex across all diary assessments (grand-mean centered). Controlling for couples'

¹ We were unable to run the odds ratio analysis (conflict predicting odds of sex on a given day) because the model would not converge (given likelihood of sex on a given day is a component of the control variable: aggregate number of acts of sex over the diary).

frequency of sex across the 14 days of the diary did not alter the reported effects.

Removing Conflicts Associated with Sex/Physical Affection

To ensure our results were not driven by conflicts that had to do with couples' sex or physical affection, a research assistant blind to the study hypotheses coded participants' open-ended descriptions of daily conflict to identify instances when the source of the conflict was related to sex or physical affection. There were 9 days in which participants' conflicts were related to sex or affection (e.g., "[did] not take me up on my advances," "Tried to play with me sexually while I was on a phone call with the insurance company"). After removing these 9 days, we repeated the original analyses; results did not change, helping to confirm that our results are not confounded by conflicts that are sexual in nature.

Examining Conflict Severity

Whenever intimates indicated that they indeed experienced a conflict, they subsequently rated the extent to which they (a) disliked and (b) felt hurt by their partners' behavior. We used an average of these two items to assess conflict severity ($r = .47$; $M = 5.00$, $SD = 1.61$). Because intimates only assessed conflict severity on conflict days, we repeated the analyses substituting the dyad's dichotomous report of conflict (yes/no) with actor's person-centered reports of conflict severity², and, to isolate the daily effects of conflict severity from the between-person (level 2) effects of conflict severity, we controlled for actor and partners' average conflict severity across all diary assessments. It should be noted that because the participant only reported conflict severity when they themselves reported a conflict, these supplemental analyses only examined days when the participant (and not their partner) reported conflict. With one

² We did not simultaneously enter partners' daily reports of conflict severity, given there were very few days in which actors and partners both reported conflict.

exception, conflict severity did not show the same key pattern of results as the original dyadic conflict variable (yes/no), suggesting that our effects are more about the *presence* of conflict versus the *severity* of the conflict. We did find that on days when participants reported a more severe conflict relative to their own average, co-occurring sex was relatively less satisfying, $b = -0.51$, $CI_{95\%} [-.93, -.09]$, $t(38.54) = -2.47$, $p = .018$, effect-size $r = .37$. Moreover, in these supplemental analyses, conflict severity mimicked some of the main effects of conflict on outcomes: 1) As in the main effect of presence of conflict on daily global sexual satisfaction, we found that on days when participants reported a more severe conflict relative to their own average, they reported lower daily global sexual satisfaction, $b = -0.28$, $CI_{95\%} [-.52, -.04]$, $t(147.56) = -2.28$, $p = .024$, effect-size $r = .18$. Likewise, akin to the negative main effect of presence of conflict on daily marital satisfaction, we found that on days when participants reported a more severe conflict relative to their own average, they reported lower daily marital satisfaction, $b = -0.44$, $CI_{95\%} [-.64, -.25]$, $t(152.65) = -4.43$, $p < .001$, effect-size $r = .34$; that is, although conflict severity operated at a main effect level similar to presence of conflict, it critically did not interact with co-occurring sex in the same way that conflict presence did.

More Information Regarding Temporal Sequence Analyses

Below we provide the coefficients for the findings mentioned in text.

Marital satisfaction. When examining today's daily marital satisfaction controlling for yesterday's, there was a significant conflict by sexual activity interaction, $b = .09$, $CI_{95\%} [.04, .15]$, $t(1006.02) = 3.43$, $p = .001$, effect-size $r = .11$ as in the original analysis, such that when sex occurred, the effect of conflict on decreases in relationship quality relative to the previous day was lower $b = -.31$, $CI_{95\%} [-.40, -.21]$, $t(1025.83) = -6.55$, $p < .001$, effect-size $r = .20$, than when no sex occurred, $b = -.49$, $CI_{95\%} [-.55, -.44]$, $t(983.65) = -16.42$, $p < .001$, effect-size $r =$

.46. When predicting tomorrow's marital satisfaction controlling for today's, conflict and sex no longer interacted, $b = -.02$, $CI_{95\%} [-.08, .04]$, $t(996.55) = -.66$, $p = .510$, effect-size $r = .02$.

Section 5: Actor and Partner Reports of Conflict

Below we report the analyses using both actor and partner's reports of conflict (No conflict = -1, Conflict = 1) and their interaction, as opposed to the dyadic conflict variable used in the main text (where conflict was coded as 1 if *either* couple member or both couple members reported a conflict that day). Unless otherwise noted, actor and partner predictors did not interact (but were kept in the model). Sex was treated as dyadic as in text. Participants provided 299 reports of conflict (range: 0 days to 6 days per participant; $M = 1.42$, $SD = 1.50$), and 86 reports of days when both sex and conflict occurred (range: 0 days to 5 days per participant; $M = 0.42$, $SD = 0.80$).

Do Conflict and Sex Frequently Co-Occur?

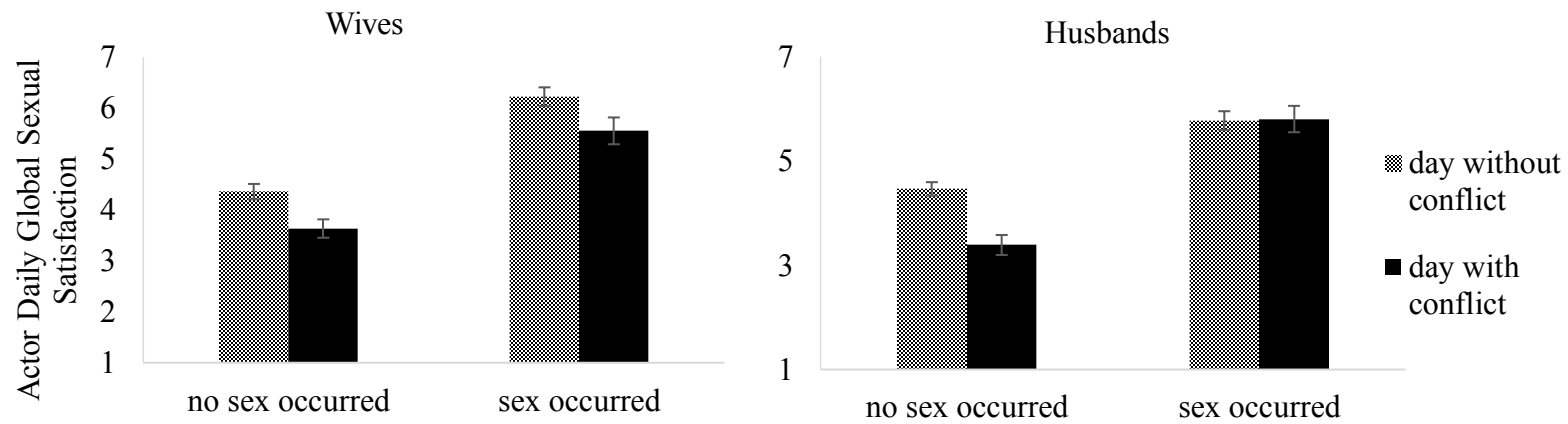
We repeated the odds ratio analyses substituting the dyadic conflict variable with actor and partner's reports of conflict (Conflict = 0/reference), as well as their interaction. Echoing the original analysis, neither actor nor partner reports of conflict (nor their interaction) predicted likelihood of the couple engaging in sex on the same day; all $ps > .330$). Unlike the original analysis, we found that neither actor nor partner reports of conflict (nor their interaction) predicted likelihood of sex the following day; all $ps > .076$.

Is Sex that Co-Occurs with Conflict Especially Satisfying?

Daily sexual satisfaction. We regressed intimates' reports of sexual satisfaction when sex occurred onto Conflict, Gender (-1 = Wives, 1 = Husbands), and the Conflict \times Gender interaction. As in the dyadic conflict analyses, on days when intimates reported that conflict and sex co-occurred, intimates rated the sexual experience as significantly less satisfying; $b = -0.37$, $CI_{95\%} [-0.51, -0.24]$, $t(613.28) = -5.44$, $p < .001$, effect-size $r = .21$. Actor and partner reports of conflict interacted with gender to predict satisfaction with the sexual experience, $b = 0.13$, $CI_{95\%}$

[0.01, 0.24], $t(320.57) = 2.19, p = .029$, effect-size $r = .12$; however, the interaction between actor and partner reports of conflict did not reach significance for either husbands, $b = 0.16$, $CI_{95\%} [-0.02, 0.35]$, $t(298.22) = 1.73, p = .084$, effect-size $r = .10$, or wives, $b = -0.08$, $CI_{95\%} [-0.29, 0.11]$, $t(304.68) = -0.87, p = .384$, effect-size $r = .05$.

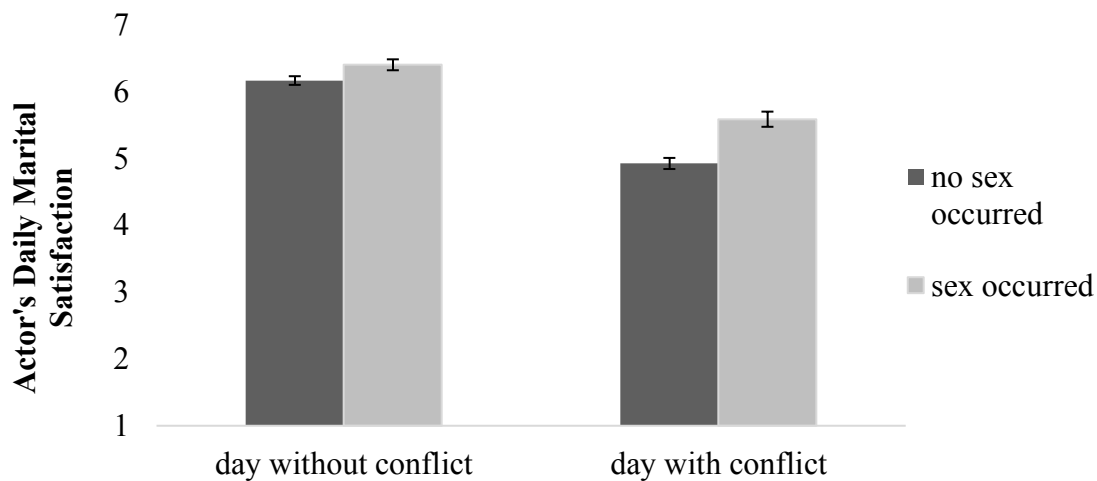
Daily global sexual satisfaction. We predicted actor's global feelings of satisfaction with their sex life (answered on all days) from actor's report of conflict, partner's report of conflict, gender, whether sex occurred, and all applicable interactions. The negative main effect of one's own report of conflict on one's daily global sexual satisfaction, $b = -0.31$, $CI_{95\%} [-0.42, -0.19]$, $t(2258.00) = -4.99, p < .001$, effect-size $r = .10$, was qualified by a 3-way interaction with sexual activity and gender (see Supplemental Figure 1), $b = 0.13$, $CI_{95\%} [.01, .25]$, $t(2218.60) = 2.17, p = .03$, effect-size $r = .05$, such that own reports of conflict and engaging in sex interacted to predict sexual satisfaction for husbands, $b = 0.28$, $CI_{95\%} [.11, .44]$, $t(856.35) = 3.29, p = .001$, effect-size $r = .11$, but not for wives, $b = 0.01$, $CI_{95\%} [-.16, .19]$, $t(879.22) = 0.16, p = .876$, effect-size $r = .01$. More specifically, conflict in the absence of co-occurring sex had a negative effect on husbands' global feelings of sexual satisfaction, $b = -0.54$, $CI_{95\%} [-.73, -.35]$, $t(906.85) = -5.61, p < .001$, effect-size $r = .18$, but conflict co-occurring with sex no longer predicted husbands' feelings of sexual satisfaction, $b = 0.02$, $CI_{95\%} [-.26, .29]$, $t(859.39) = 0.11, p = .915$, effect-size $r < .01$.



Supplemental Figure 1. Wives' and husbands' daily sexual satisfaction as a function of conflict and sexual activity.

Does the tendency for sex and conflict to coincide predict relationship outcomes?

Daily marital satisfaction. We predicted actor's daily marital quality from actor's report of conflict, partner's report of conflict, gender, whether sex occurred, and all applicable interactions. As depicted in Supplemental Figure 2, and replicating the dyadic conflict results reported in the main text, the negative main effect of one's own report of conflict on one's daily marital satisfaction, $b = -0.51$, $CI_{95\%} [-.58, -.44]$, $t(2242.83) = -14.12$, $p < .001$, effect-size $r = .29$, was moderated by whether sex co-occurred, $b = 0.11$, $CI_{95\%} [.04, .18]$, $t(2226.12) = 2.95$, $p = .003$, effect-size $r = .06$; the negative effect of conflict on marital satisfaction was weaker on days that sex co-occurred, $b = -0.41$, $CI_{95\%} [-.52, -.29]$, $t(2227.89) = -6.78$, $p < .001$, effect-size $r = .14$ relative to days when no sex occurred, $b = -0.62$, $CI_{95\%} [-.70, -.54]$, $t(2249.07) = -15.30$, $p < .001$, effect-size $r = .31$.



Supplemental Figure 2. Associations between actor's daily reports of conflict, daily dyadic reports of sex, and actor's daily marital satisfaction.

Temporal Sequence

As in the main text, we first repeated the daily marital satisfaction analysis, controlling for *yesterday's* (person-centered) marital satisfaction, which tested whether the co-occurrence of

conflict (actor's report) and sex (dyad's report) on a given day was associated with increases in marital satisfaction (relative to marital satisfaction on the previous day). For the second set of analyses, instead of examining today's marital satisfaction as the outcome, we predicted *tomorrow's* marital satisfaction controlling for today's (person-centered) marital satisfaction, which tested whether the co-occurrence of actor's reports of conflict and sex on a given day was associated with increases in marital satisfaction the next day (relative to marital satisfaction on that same day). Our original key finding—that engaging in sex partially reduced the negative effect of conflict on marital satisfaction—remained significant in both models. More specifically, the co-occurrence of actor's reports of conflict and sex on a given day was associated with increased marital satisfaction on that same day, controlling for the prior day's marital satisfaction, $b = 0.15$, $CI_{95\%} [0.07, 0.23]$, $t(1995.01) = 3.81$, $p < .001$, effect-size $r = .08$, such that the effect of conflict on decreases in marital satisfaction relative to the prior day was lower when sex occurred, $b = -0.37$, $CI_{95\%} [-.50, -.24]$, $t(1990.36) = -5.65$, $p < .001$, effect-size $r = .13$, than when no sex occurred, $b = -0.68$, $CI_{95\%} [-.76, -.59]$, $t(2017.043) = -15.48$, $p < .001$, effect-size $r = .33$. Likewise, the co-occurrence of actor's reports of conflict and sex on a given day was associated with less steep declines in marital satisfaction on the subsequent day, $b = 0.11$, $CI_{95\%} [.03, .18]$, $t(1992.15) = 2.69$, $p = .007$, effect-size $r = .06$, such that conflict was associated with declines in the subsequent day's marital satisfaction when it occurred in the absence of sex, $b = -0.23$, $CI_{95\%} [-.32, -.14]$, $t(2021.71) = -5.04$, $p < .001$, effect-size $r = .11$, but no longer associated with the subsequent day's marital satisfaction when it co-occurred with sex, $b = -0.02$, $CI_{95\%} [-.15, .11]$, $t(1997.90) = -0.33$, $p = .745$, effect-size $r = .007$. Together, these findings suggest that the co-occurrence of conflict and sex dampens reductions in marital satisfaction on the same day and on the subsequent day.

We repeated these analyses with daily global feelings of sexual satisfaction as the outcome. As in the original analysis, actor's report of conflict, sex, and gender interacted, $b = 0.15$, $CI_{95\%} [.02, .28]$, $t(1978.49) = 2.29$, $p = .022$, effect-size $r = .05$, such that conflict in the absence of sex was associated with husbands' lower global sexual satisfaction (relative to global sexual satisfaction on the previous day) when it occurred in the absence of sex, $b = -0.53$, $CI_{95\%} [-.74, -.32]$, $t(757.28) = -4.95$, $p < .001$, effect-size $r = .18$, but not when it co-occurred with sex, $b = 0.20$, $CI_{95\%} [-.11, .51]$, $t(721.33) = 1.28$, $p = .203$, effect-size $r = .05$. When predicting tomorrow's global feelings of sexual satisfaction, actor's reports of conflict, sex, and gender no longer significantly interacted, $b = 0.002$, $CI_{95\%} [-.14, .14]$, $t(1804.80) = 0.028$, $p = .978$, effect-size $r < .0001$ (and none of the lower term interactions were significant). Together, these findings suggest that the co-occurrence of conflict and sex can momentarily buffer husbands (but not wives) against the negative impact of such conflict on that day (but not the subsequent day's) sexual satisfaction.

Additional Analyses

We conducted additional analyses to ensure these effects could not be attributed to negative affect, frequency of conflict, frequency of sex, whether the conflict involved sex/physical affection, or conflict severity. By and large, our pattern of results remained robust to these variables.