Relationships on the Rocks:

A Meta-analysis of Romantic Partner Effects on Alcohol Use

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Abstract

The partner influence hypothesis postulates one partner's alcohol use influences the other partner’s alcohol use over time. While several studies have examined the partner influence hypothesis, the magnitude and gender-specific nature of partner influences on alcohol use are unclear and have yet to be examined meta-analytically. We addressed this by conducting a traditional bivariate meta-analysis and two-stage meta-analytic structural equation modelling (TS-MASEM) across 17 studies (*N* = 10,553 couples). Studies that assessed both romantic partners’ alcohol use at a minimum of two time-points were selected. Results suggest romantic partners do influence one another’s drinking, to a small but meaningful degree, with women (β = .19) exerting a statistically stronger (*p* < .05) influence than men (β = .12). Results also suggest time lag between assessment, alcohol indicator, married, and year of publication may moderate partner influence. Thus, social influences on individual alcohol use include important partner influences. These influences can serve either risk or protective functions. Given the economic, social, and health consequences associated with alcohol misuse, advancing knowledge of social risk factors for alcohol misuse is essential. Therefore, assessment and treatment of alcohol misuse should extend beyond the person to the social context. We encourage clinicians to consider involving romantic partners when assessing and treating alcohol misuse.

 *Keywords*: alcohol, romantic relationships, dating, married, meta-analysis.

Relationships on the Rocks: A Meta-analysis of Romantic Partner Effects on Alcohol Use

Alcohol use is widespread in North America. In 2016, 70.1% of American adults reported drinking alcohol, and in 2013, 80% of Canadian adults reported alcohol use (Substance Abuse and Mental Health Services Administration, 2017; Public Health Agency of Canada [PHAC], 2016). Despite the prevalence and general acceptance of alcohol use in North America, there are numerous adverse outcomes associated with alcohol misuse. Indeed, alcohol use cost the United States $249 billion in 2010 and represented the second-costliest substance; three-quarters of these costs were associated with binge drinking (National Institute on Drug Abuse, 2017; Sacks, Gonzales, Bouchery, Tomedi, & Brewer, 2015). In 2014, alcohol use cost Canada $14.1 billion and represented the costliest substance (Canadian Centre for Substance Use and Addiction, 2018). The social costs of alcohol misuse include damaged relationships, family conflict, violence, and impaired driving (PHAC, 2016). Moreover, there are over 200 health conditions linked with excessive alcohol use, including gastrointestinal diseases, cancers, and cardiovascular diseases (World Health Organization, 2014).

Alcohol is frequently consumed socially and often associated with positive social experiences (PHAC, 2016); therefore, individuals’ alcohol use may be influenced by others in their environment. Research shows drinking-supportive social networks have a strong influence on individual alcohol misuse and alcohol problems over time (Homish, & Leonard, 2008). One potentially important social influence on alcohol use occurs in the context of romantic relationships (Homish, & Leonard, 2007). Research on alcohol use in romantic couples is essential since alcohol use is implicated in several key aspects of romantic relationships, including marital satisfaction, partners’ emotional well-being, and domestic violence. Spouses of individuals with alcohol use disorders (AUDs), for example, report lower marital satisfaction and elevated depression, anxiety, and psychological distress compared to spouses of individuals without AUDs (Rodriguez, Neighbors, & Knee, 2014). Furthermore, heavy alcohol use within romantic couples may be associated with other negative social consequences such as relationship dissolution (Torvik, Røysamb, Gustavson, Idstad & Tambs, 2013).

Though the impact of heavy partner drinking has garnered much attention, the impact of a partner’s alcohol use on an individual’s subsequent alcohol use is unclear. Though data exist that would allow for a large-scale empirical evaluation of partner influences on alcohol use, these data have not been empirically synthesized. Research on the role of partner alcohol use on subsequent use in romantic couples is important, given the numerous negative consequences of alcohol misuse noted above. We addressed this gap in the literature by synthesizing findings of longitudinal studies that examined alcohol use in couples.

**Partner Influence Hypothesis**

The partner influence hypothesis (Mushquash et al., 2013) postulates one partner’s alcohol use influences the other partner’s alcohol use over time. This hypothesis stems from earlier research on spousal concordance in alcohol use (e.g., Leonard & Eiden, 1999; Leonard & Senchak, 1993; Yamaguchi & Kandel, 1993). Several theories help explain why partner influences might be operative. One pertains to social conformity pressure, which research on interpersonal influences has identified as a predictor of alcohol use and misuse (Fairlie, Wood, & Laird, 2012). Similarly, social impact theory (Latané, 1981) postulates that as the importance of individuals within one’s social context increases, and as time spent with the social network increases, the more likely an individual will conform to the social network’s normative pressures. A romantic partnership is an example of an important relationship where individuals can be subjected to pressures to conform. Likewise, interdependence theory posits that as individuals in romantic relationships build their partnership through rewarding interactions, they become increasingly dependent on one another (Wickham & Knee, 2012) and, therefore, more susceptible to being influenced by one other’s behaviors.

Furthermore, given the human need for social approval and acceptance (Baumeister & Leary, 1995), partners in a romantic relationship may change their drinking behaviors to match those of their romantic partner to receive partner approval and thereby maintain the relationship (Mushquash et al., 2013). According to family systems theory, couples respond to each other’s behaviors within a system established by roles and expectations (Bowen, 1974). Partners may shift their drinking behaviors to maintain balance in the family system.

Following the theory of exposure effects in person perception (Moreland & Zajonc, 1982), since partners are highly exposed to one another, they are likely to develop positive attitudes toward one another’s drinking behavior and therefore adopt similar drinking behaviors. Yet another theory that may explain partner influences involves the notion of a “drinking partnership” (Roberts & Leonard, 1998) – an accord between the partners’ drinking levels, patterns, or contexts of use that is suggested to develop over time in some couples. Such couples may develop enduring drinking rituals, especially when alcohol becomes an integral part of the relationship. Next, following Bandura’s (1977) social learning theory, one individual may imitate their partner’s (“model’s”) drinking after a period of directly observing the rewards their partner obtains from drinking.

In line with the robust literature of homophily in social networks, partners are likely to select individuals who engage in similar drinking behaviors (Leonard & Mudar, 2003; McPherson, Smith-Lovin, & Cook, 2001). However, research on substance use over the transition to marriage has demonstrated that selection effects do not account for all the differences observed in alcohol use between married and single individuals (Labouvie, 1996; Merline, 2004). Similarly, Aikins, Simon, and Prinstein (2010) found both selection and partner influence effects on alcohol use in adolescent romantic partnerships. In sum, various theories help explain the mechanisms through which partner influence effects might operate, and they converge in suggesting partners may adopt one another’s drinking behaviors over time. Alternatively, a negative association between partners’ drinking may exist (e.g., in social learning theory, when an actor observes punishing consequences following the drinking behaviour of their partner, they may decrease their own drinking). Moreover, the direction or strength of partner influences may be impacted by moderating factors including couple age or relationship length. The partner influence hypothesis and its related theories imply that couples who fail to influence each other’s drinking may be at risk of lower relationship satisfaction or relationship dissolution.

**Advancing research on the partner influence hypothesis using meta-analysis**

Despite sustained research, the magnitude and gender-specific nature of partner influences on alcohol use are unclear. Correlations between a partner’s baseline alcohol use and an individual’s own subsequent alcohol use range from small (*r* = .25; Otten, van der Zwaluw, van der Vorst, & Engels, 2008) to large (*r* = .55; Bartel, Sherry, Molnar, Mushquash, Leonard, Flett, & Stewart, 2017). Moreover, Leonard and Mudar (2004) found the direction of gender-specific spousal influence changed over time: husbands influenced wives from the pre-marriage period to the first year of marriage, but wives influenced husbands from the first year of marriage to the second. Other studies found partner influences on alcohol use are equal for women and men (e.g., Bartel et al., 2017).

A thorough understanding of partner influences on alcohol misuse is beneficial for validating existing efforts to incorporate social network drinking in biopsychosocial assessment settings (e.g., American Society of Addiction Medicine, 2015) and for improving intervention efforts. For instance, if robust partner influences exist, then partner drinking should continue to be assessed when establishing a prognosis or treatment plan for an alcohol misusing client. If the partner’s drinking level is high, it may hinder the efficacy of an individual’s treatment, or impede the individual’s change in drinking behavior. However, if a partner’s drinking is low, it may bode well for recovery, reinforce the efficacy of an individual’s treatment, and accelerate change in the individual’s alcohol use. Therefore, a clinician could harness the therapeutic potential of a client having a low-drinking partner or could treat the couple together in the case of a heavy-drinking partner.

Given the useful clinical implications of the partner influence hypothesis, a synthesis of available data on this hypothesis is valuable. This would allow the implementation of statistical controls (e.g., controlling for actor effects – i.e., relative stability in the individual’s own drinking behavior over time) and robust testing of gender differences (e.g., to test whether the magnitude of partner influence is statistically stronger in one vs. the other gender) that are missing from many studies (e.g., Gudonis-Miller, Lewis, Tong, Tu, & Aalsma, Carpentier, Azzouz, & Fortenberry, 2012). We used two-stage meta-analytic structural equation modeling (TS-MASEM) in addition to traditional meta-analyses. The tendency to rely solely on traditional meta-analyses in psychology is limiting; studies often examine multiple and correlated outcomes even though effects are often multivariate rather than univariate (Eysenck, 1994; Jackson, Riley & White, 2011). Instead of performing multiple traditional analyses, multivariate meta-analyses such as TS-MASEM provide all parameter estimates within a single model (e.g., testing both actor and partner effects simultaneously instead of performing separate analyses). Furthermore, TS-MASEM can assess models’ fit and estimate effects while controlling for other variables and is the preferable approach to permit integration of meta-analysis and structural equation modeling (Cheung & Hong, 2017; Landis, 2013).

**Objectives and Hypotheses**

We tested whether one partner’s baseline alcohol use predicted changes in the other partner’s alcohol use by follow-up, by conducting TS-MASEM (Cheung, 2005). Despite some inconsistencies in the literature, overall, research does suggest the presence of partner effects over time (e.g., Aalsma et al., 2012; Van der Wulp, Hoving, & De Vries, 2015). Therefore, we expected to observe robust partner effects. We hypothesized that after accounting for individual baseline alcohol use, that an individual’s future alcohol use would be significantly and positively predicted by their partner’s baseline alcohol use. Our test of the magnitude of partner influence was exploratory. Additionally, we investigated whether the magnitude of partner influences differ by alcohol indicator by comparing partner effects derived from measures of alcohol use vs. measures of alcohol-related problems. Next, we examined whether partner influences on alcohol use differ in magnitude by gender; however, given inconsistencies in the literature, these analyses were exploratory[[1]](#footnote-1). Finally, to evaluate publication bias and to catalyze a search for moderators that may resolve heterogeneity, we conducted a traditional meta-analysis to test the moderating effect of year of publication, mean age of couple, alcohol indicator (i.e., measure of alcohol use vs. alcohol-related problems), time lag, married (i.e., predominantly married couples vs. community/dating/other couples), attrition, and relationship length on observed relations.

**Method**

**Study Identification**

Six databases (i.e., Academic Search Premier, the Cumulative Index of Nursing and Allied Health Literature, PsycINFO, PubMed, and Social Work Abstracts, and Proquest Dissertations and Theses) were searched to locate longitudinal studies of alcohol use in romantic couples. Literature searches were conducted using keywords and Boolean search terms (couple\* OR marriage OR married OR marital OR partner\* OR dyad\* OR spous\* OR husband\* OR wife OR wives OR boyfriend OR girlfriend OR fiancé OR “common law” OR companion OR dating OR “same-sex relationship\*” OR “heterosexual relationship” OR “homosexual relationship” OR “intimate relationship\*” OR “committed relationship\*” OR “closed relationship\*” OR “exclusive relationship\*” OR “monogamous relationship\*” OR “covenant relationship\*” OR “significant other” OR “life partner”) AND (alcoho\* OR drinking) AND (longitudinal OR “repeated measure” OR “serial measure” OR prospective OR “multi-wave” OR “follow up” OR “over time”). The search was not restricted by year of publication, language, or publication status. Studies were included if they met the following six criteria: the study used a longitudinal design; the study collected data on romantically-involved couples; alcohol use was assessed at baseline; the same measure of alcohol use was assessed at follow-up; both members of the couple’s alcohol use was assessed at each wave; and couples remained in the same romantic partnership at each wave. Intervention studies including these six components were eligible if data from an untreated control group were available; in such cases, only the data from the untreated control group were used. We placed no restrictions on study samples with respect to sex, gender, sexual orientation, age, or ethnicity.

The search returned 4,902 studies. After removing duplicates, 3,655 studies remained.The first and fourth authors screened the abstractsfor inclusion (agreement rate: 95.1%). Next, two raters reviewed the full text of remaining articles for inclusion (agreement rate: 100.0%). At each stage, rating discrepancies were resolved through discussion and consensus with co-authors. Following full-text screening, the references and publications citing each article that met inclusion criteria were screened. Studies known to the authors that were not detected through the literature search were also screened for inclusion (*n* = 3). Following the addition of these three articles, a total of 26 studies met inclusion criteria, and 17 studies were included in the final analyses (see Supplemental Material A for a sample of excluded studies, and Figure A1 for the PRISMA flowchart of the literature search and study selection; Moher et al., 2009). Information was requested from the primary author (*n* = 18) when a study nearly met criteria but did not report effect sizes or reported insufficient information to compute effect sizes. Nine of the contacted authors provided the requested information (and were thus included in the final 17 articles), whereas another nine of the authors contacted were unable to provide the necessary statistical information (i.e., no longer had access to the data, had already destroyed data). In December 2017, we concluded the literature search and began data extraction.

**Coding of Studies**

 The first and fourth authors coded the 17 included studies using ten characteristics: sample size, type of sample, type of romantic relationship, sexual orientation of the couple, relationship length, mean age of participants, percentage of Caucasian participants, percentage of female participants, publication type, and measure(s) used to assess alcohol outcomes. The characteristics of included studies appear in Table 1.

**Measures**

Four primary alcohol outcomes were included: frequency, frequency of binge drinking, quantity, and alcohol problems (assessed using one or more of three measures). We refer to these outcomes collectively as “alcohol indicators.” For our subgroup analysis, we refer to measures of frequency, frequency of binge drinking, and quantity collectively as “alcohol use,” to differentiate from “alcohol-related problems” (see Supplemental Material B).

**Procedure**

 To combat overrepresentation of studies including multiple effects, studies using multiple alcohol indicators had their correlations averaged, so the analysis only included one effect from each included study (Card, 2012). Prior to averaging, correlations were transformed into Fisher’s Z (Card, 2012). Correlations within each individual study across every wave available appear in Supplemental Material C. We used all available alcohol indicators data by averaging effects across all waves and interpret effects following Cohen’s (1992) guidelines for small, medium, and large effect sizes (*r* = .10, .30, .50).

*Traditional meta-analysis*

We used Comprehensive Meta-Analysis (Version 2; Borenstein, Hedges, Higgins, & Rothstein, 2005) to evaluate overall bivariate effects using random-effect models. Weighted mean effects were calculated following procedures recommended by Hunter and Schmidt (1990). To assess heterogeneity, we calculated the total heterogeneity of weighted mean effect sizes (*QT*) and the total variation across studies attributable to heterogeneity (*I2*). When *QT* was significant, we used random-effect meta-regressions with maximum likelihood estimations to test the potential moderating effects of five continuous and two categorical covariates: year of publication, mean age of couple, time lag, attrition, relationship length, alcohol indicator, and married. Only continuous moderators evaluated in 10 or more samples and categorical moderators evaluated in three or more samples per subgroup could be considered for meta-regression. For each observed relationship, we tested eight models with the following predictors: year of publication; mean age of couple; alcohol indicator (alcohol use vs. alcohol problems); time lag between baseline and follow-up assessments; married (predominantly married couples vs. community/other couples); attrition (%); and all seven of the above simultaneously (see Supplemental Material D). When moderators were significant, corresponding scatter plots were provided in Supplemental Material E. Publication bias was tested by inspecting funnel plots with observed and imputed studies (Supplemental Material F), and through calculation of Egger’s test of regression to the intercept (Egger, Smith, Schneider, & Minder, 1997; see Table 2).

*Two-Stage Meta-Analytic Structural Equation Modeling*

To test whether partners’ baseline alcohol indicators predicted individuals’ follow-up alcohol indicators after controlling for individuals’ baseline alcohol indicators, we conducted TS-MASEM (Cheung, 2014; Cheung & Chan, 2005) via the *metaSEM* package for R (Cheung, 2015; Version 3.2: R Core Team, 2013). The first stage in TS-MASEM uses multigroup confirmatory factor analyses to test the homogeneity of correlation matrices across studies and to compute a pooled correlation matrix and an asymptotic covariance matrix. The degree of heterogeneity in each pooled correlation matrix was evaluated by computing *QT* and *I*2. A significant *QT* suggests the pooled correlation matrix is heterogeneous and that the variance in weighted mean effect sizes is larger than would be expected due to sampling error (Cheung, 2014). We used random effects, as opposed to fixed effects, so that findings could be generalized beyond the studies included. The second stage in TS-MASEM used the weighted least squares (WLS) estimation to fit path models, estimate parameters, and estimate model fit. Chi-square difference tests (i.e., ∆χ2) were used to test if an unconstrained model differed significantly from the more parsimonious constrained model (see Supplemental Material H-J for syntax). The overall group refers to the entire sample of studies (*n* = 17), a subset of data refers to measures of alcohol use (*n* = 14), and another refers to studies that measured alcohol-related problems[[2]](#footnote-2) (*n* = 5). Following Hu and Bentler (1999), model fit was interpreted using the Comparative Fit Index (CFI; cut off > .95), the Tucker-Lewis Index (TLI; cut off > .95), the Standardized Root Mean Squared Error (SRMR; cut off < .08), and the Root Mean Squared Error of Approximation (RMSEA; cut off < .06).

**Results**

**Sample Characteristics**

The final sample consisted of 10,553 couples (21,106 individuals). Mean sample size/study was 621 couples (*SD* = 1,297); women were on average 32.8 years (*SD* = 12.0); men were on average 34.6 years (*SD* = 12.9); the mean time lag between the first and last assessment was 37.1 months (*SD* = 44.3; range: 1 to 144); the attrition rate by the final wave was on average 36.8% (*SD* = 21.5); the mean percentage of Caucasian couples was 71.7% (SD = 27.3); mean relationship length was 9.8 years (*SD* = 10.0); and average year of publication was 2009 (*SD* = 8.17 years). The full characteristics of the final sample appear in Table 1.

**Traditional Meta-Analysis**

Overall weighted mean effects for the relationships between female and male baseline and follow-up alcohol indicators/alcohol use/alcohol problems appear in Table 2. In brief, baseline female alcohol indicators (referred to as FAI-T1) had small relationships (*r* = .29, *p* < .001) with male follow-up alcohol indicators (referred to as MAI-T2), medium relationships (*r* = .35, *p* < .001) with baseline male alcohol indicators (referred to as MAI-T1), and large relationships (*r* = .58, *p* < .001) with female follow-up alcohol indicators (referred to as FAI-T2). MAI-T1 had small relationships (*r* = .29; *p* < .001) with FAI-T2 and large (*r* = .62; *p* < .001) relationships with MAI-T2. Finally, MAI-T2 had medium relationships (*r* = .37; *p* < .001) with FAI-T2. The percentage of total heterogeneity across studies ranged from 0.0% to 93.4%, suggesting the possible influence of moderators on certain relationships.

**Meta-Regression**

Results from random effect meta-regressions appear in Supplemental Material D. After controlling for mean age of couple, alcohol indicator, time lag, married, attrition, and relationship length, year of publication moderated the following relationships: FAI-T1 and MAI-T1 (β = .024, *p* = .001), MAI-T1 and FAI-T2 (β = .017, *p* = .002), and FAI-T2 and MAI-T2 (β = .026, *p* = .007). This suggests FAI-T1’s positive relationship with MAI-T1 increased as year of publication increased, as did FAI-T2’s positive relationships with MAI-T1 and MAI-T2. Nonetheless, upon inspection of the scatterplot, the moderating effect of year of publication on the relationship between FAI-T1 and MAI-T1 may be driven by outliers and should be interpreted with caution (see Supplemental Material E).

After controlling for other potential moderators, mean age of couple moderated the following relationships: FAI-T1 and MAI-T1 (β = .065, *p* = .002), and FAI-T2 and MAI-T2 (β = .073, *p* = .009). This suggests FAI-T1’s positive relationship with MAI-T1 increased as mean age of couple increased, as did FAI-T2’s positive relationship with MAI-T2. Nonetheless, upon inspection of the scatterplot, it appears the moderating effect of mean age of couple on the relationship between FAI-T1 and MAI-T1 may have been driven by outliers and should be interpreted with caution (see Supplemental Material E).

After controlling for other potential moderators, the alcohol indicator moderated the following relationships: FAI-T1 and MAI-T1 (β = .25, *p* = .002), FAI-T1 and MAI-T2 (β = .185, *p* = .025), and FAI-T2 and MAI-T2 (β = .27, *p* = .012). This implies FAI-T1’s positive relationship with MAI-T1 increased when measures of alcohol use as opposed to alcohol problems were employed, as did FAI-T2’s positive relationship with MAI-T2, and FAI-T1’s positive relationship with MAI-T2.

After controlling for other potential moderators, time lag between assessments moderated the following relationships: FAI-T1 and MAI-T1 (β = -.009, *p* < .001), FAI-T1 and MAI-T2 (β = -.005, *p* <.001), MAI-T1 and FAI-T2 (β = -.006, *p* <.001), and FAI-T2 and MAI-T2 (β = -.009, *p* <.001). This implies FAI-T1’s positive relationship with MAI-T1 and MAI-T2 decreased as time lag increased. FAI-T2’s positive relationship with MAI-T1 and MAI-T2 also decreased as time lag increased.

After controlling for other potential moderators, the married variable moderated the following relationships: FAI-T1 and MAI-T1 (β = -.274, *p* = .002), and FAI-T1 and MAI-T2 (β = -.327, *p* <.001). This suggests FAI-T1’s positive relationships with MAI-T1 and MAI-T2 decreased for samples which were primarily married versus other types of samples (e.g., community samples).

**Publication Bias**

Funnel plots (Supplemental Material F) and Egger’s regression to the intercept (Table 2) provided mixed evidence for publication bias. Egger’s regression to the intercept was not significant (*p* < .05) for all observed relationships with the exception of the following relationships: MAI-T1 and MAI-T2, -3.06 [95% CI: -6.71; 0.59], and MAU-T1 and MAU-T2, -4.34 [95% CI: -8.21; -0.47]. However, the "trim and fill" method only increased the estimated relationship between MAI-T1 and MAI-T2 by .02 and the estimated relationship between MAU-T1 and MAU-T2 by .01, suggesting small publication bias but no substantive difference in interpretation (see Table 2).

**TS-MASEM Overall Effect Sizes**

Estimates of mean correlations between female and male alcohol indicators/alcohol use/alcohol problems at T1 and T2 appear in Supplemental Material C. Longitudinal alcohol indicators’ effect estimates were small-to-large (*r* = .00 to .90) and all but two longitudinal alcohol indicators’ effect estimates were positive. FAI-T1 strongly predicted FAI-T2 (β = 0.54, [95% CI: .47; .60]) and MAI-T1 strongly predicted MAI-T2 (β = 0.54, [95% CI: .47; .62]). FAI-T1 predicted MAI-T2, after controlling for MAI-T1 (β = .19, [95% CI.12; .25]) to a small degree. Similarly, MAI-T1 predicted FAI-T2 while controlling for FAI-T1 (β = .12, [95% CI: .06; .18]) to a small degree. The same pattern of results was found for measures of alcohol use (Supplemental Material C). Comparable results were found for measures of alcohol problems except baseline male alcohol problems did not predict female follow-up alcohol problems (see Supplemental Material C). Lastly, the path corresponding to baseline female alcohol problems predicting male follow-up alcohol problems was significantly (*p* < .05) weaker than baseline female alcohol use predicting male follow-up alcohol use.

 *QT* was significant for the overall effect of baseline alcohol indicators predicting change in alcohol indicators at follow-up (*QT =* 381.4, *p* < .001) and for the overall effect of baseline alcohol use predicting change in alcohol use at follow-up (*QT =* 365.6, *p* < .001). In contrast, *QT* was nonsignificant for the overall effect of baseline alcohol problems predicting change in alcohol problems at follow-up (*QT*= 25.3, *p* > .05). Lastly, *I*2 ranged from medium-to-large for alcohol indicators (*I*2 = 71.8 to 90.0) and alcohol use (*I*2 = 69.8 to 91.7). In line with the overall nonsignificant test of heterogeneity, little heterogeneity was found for the alcohol problems weighed effects. Indices of heterogeneity and variance owing to heterogeneity for each group of data are reported in Supplemental Material C.

**Model Comparisons**

Four models were compared within each group of data (see Table 3 for fit indices) to test the presence and magnitude of partner effects, and any gender differences in effects. Model A was just-identified (*df* = 0) and was used to compare other models. For Model B, the correlation between MAI-T2 and FAI-T2 was constrained to zero. For Model C, the same correlation was constrained to zero, and the path from FAI-T1 to MAI-T2 was constrained to equal the path from MAI-T1 to FAI-T2. Building from Model B, Model C tested whether equating partner effects across genders would result in better fit. For Model D, the correlation between FAI-T2 and MAI-T2 was constrained to zero and the path from FAI-T1 to FAI-T2 was constrained to equal the path from MAI-T1 to MAI-T2. Building from Model B, Model D tested whether equating actor effects (i.e., individual relative stability) across genders would result in better fit. Model B was the best-fitting and selected Model as determined by stand-alone fit indices (CFI, TLI, RMSEA, SRMR) and the chi-square difference test for all data (see Supplemental Figures G1-3). Model B’s selection over Model C suggests the magnitude of partner effects vary across genders, with women exerting stronger partner effects on their male partner’s alcohol indicators than vice versa (see Figure G1). Next, the male partner effect for alcohol problems was nonsignificant (*p* > .05), suggesting men may not influence their female partner’s alcohol problems (see Figure G3). Model B’s selection over Model D suggests alcohol use has greater relative stability in women than in men as the female actor effect was significantly stronger than the male actor effect, though the magnitude of this difference was small (see Figure G2). We found the opposite with regards to alcohol-related problems: the male actor effect was significantly stronger (*p* < .05) than the female actor effect, suggesting that alcohol problems are relatively more stable in men (see Figure G3). Model B yielded no significant differences in actor effects on the overall alcohol indicators across genders.

**Discussion**

 The magnitude and gender-specific nature of partner influences on alcohol use required clarification due to some inconsistencies in findings. Furthermore, understanding partner influences on alcohol use could have implications for prevention and treatment efforts. Therefore, we conducted a comprehensive meta-analysis of 17 longitudinal studies examining partner influences in romantic couples. Our best-fitting model allowed both partner and actor effects to vary freely across genders and fit the data well, as evidenced by strong stand-alone and relative goodness-of-fit indices. As hypothesized, results suggested the partner’s baseline alcohol use positively predicts the individual’s alcohol use (i.e., partner effects), while accounting for the relative stability of alcohol use within the individual (i.e., actor effects). Overall, we found significant partner effects on alcohol use that were small in magnitude; however, given the strong relative stability of alcohol use within an individual, the detection of partner effects that control for actor effects is meaningful as small effects that are positive and consistent may have a cumulative effect over time (Abelson, 1985; Otten et al., 2008).

**Gender Differences in Partner Influence**

We conducted a subgroup analysis to compare partner influences across measures of alcohol use, and alcohol problems as the former represent a behavior and the latter, consequences of a behavior. We found the female partner effect was stronger than the male partner effect for alcohol use. Additionally, we found a significant female partner effect yet a nonsignificant male partner effect for alcohol-related problems.

Our results contribute to the literature on gender differences in the social context of alcohol use by showing that women exert stronger partner influences than men. Though discordance in heavy drinking among couples is associated with decreased marital satisfaction (Homish & Leonard, 2007), some research suggests couples where only the woman reports heavy drinking are at increased risk of divorce compared to man-only heavy drinking couples (Keenan, Kenward, Grundy, & Leon, 2013; Torvik et al., 2015). Another possible explanation for the gender difference in partner influence pertains to the fact that women engage in lower alcohol consumption than men and that men may shift their drinking to match the lower levels of their female partners (Wilsnack, Wilsnack, Kristjanson, Vogeltanz‐Holm, & Gmel, 2009). Engels and Knibbe (2000) found male adolescents shifted their drinking patterns to that of their female romantic partner by drinking less and being intoxicated less often whereas female adolescents exhibited significantly less changes in their drinking patterns after entering a romantic relationship. Taken together, women may influence their male partner’s drinking more strongly than the reverse, in either a risky and/or a protective manner.

Next, our moderation analyses suggest women exert less influence within married samples compared to community/other samples. A possible explanation lies within Bowen’s family systems theory (1974). Perhaps the alcohol-related roles and expectations for each member of the married couple are more established and therefore more resistant to the women’s influence compared to other types of samples. Furthermore, our moderation analyses suggest male partner effects increased as year of publication increased. Women have historically held less power in society; but given shifts in traditional gender-roles observed in North America in recent decades perhaps women, with fewer traditional social constraints on their drinking (Keyes, Grant & Hasin, 2008), are becoming more responsive to male partner influences on their drinking. In fact, there has been a gender convergence in rates of AUDs in recent decades (Keyes et al., 2008). These socio-cultural trends may help explain the publication year effect observed in our meta-analysis. Lastly, we found that both female and male partner effects decreased as the time lag between assessments increased. Though partner influences continue to be significant, it is possible that the predictive power of baseline partner drinking decreases with time as the couple is more likely to experience other sources of influences that may impact their drinking levels (e.g., change in social circles, pregnancy, stressful events).

Our finding that women influence their male partners more strongly than the reverse is consistent with research on the gender differences in alcohol-related problems. Again, a possible explanation pertains to the fact that women experience lower frequencies of alcohol problems than men on average (Bischoff, 2007; Nolen-Hoeksema, 2004); men may shift their drinking to a less problematic style to match that of their female partners. Moreover, it is essential to consider gender differences in the way individuals view their own, and their partner’s, drinking behaviors as these differences influence the expected, perceived and actual experiences of alcohol problems (Bischoff, 2007). Research suggests that women are more likely than men to be concerned for their partner’s drinking and to attempt to control it. In contrast, their male partners display few concerns about their own drinking (Raitasalo & Holmila, 2005).

We found men influence their female partners’ drinking levels, but not their alcohol-related problems. A possible explanation for this lies within the difference between a behavior and a negative consequence. Following social learning theory (Bandura, 1977), a woman may emulate her male partner’s heavy drinking after a period of directly observing rewards he obtains from his drinking behaviors. However, given the negative valance of alcohol problems, a woman may be less likely to imitate her husband’s problematic drinking. Interestingly, our results revealed men’s alcohol problems are still influenced by their female partners’ alcohol-related problems. Still, in line with social learning theory, this influence on alcohol problems was weaker than women’s influence on men’s alcohol use and further moderation analyses were consistent with this conclusion. Differences in the experience of alcohol problems across genders may contribute to the gender difference in partner influence. For instance, Bongers and colleagues (1988) found men reported a greater accumulation of types of alcohol-related problems; men were more likely than women to experience problems with their partner/family, and problems with law enforcement. Moreover, in a review of consequences in college students, Perkins (2002) found male college students’ alcohol problems gravitated towards consequences for self and others that involved public deviance, whereas female college students tended to have more personal and private alcohol-related problems. Perhaps the alcohol-related consequences experienced by men are more observably deterring women from emulating those behaviors.

**Gender Differences in Actor Effects**

In our selected model which allowed actor and partner effects to vary freely, we found the female actor effect to be significantly stronger than the male actor effect for alcohol use. These autocorrelations suggest women may possess greater relative stability in their alcohol use than men. National surveys in the U.S. have similarly reported women’s alcohol consumption levels to be more stable than men’s over ten years (Kerr, Fillmore, & Bostrom, 2002). Other longitudinal studies suggest heavy drinkers are less stable in their consumption than moderate drinkers and abstainers (Kerr et al., 2002; Knott, Bell, & Britton, 2018). Thus, women’s greater stability in alcohol consumption over time may be related to the fact women on average consume less alcohol than men (Wilsnack et al., 2009). However, it is important to interpret our observed gender difference in the magnitude of the actor effect for alcohol use cautiously as the absolute magnitude of this gender difference was very small. Moreover, significant autocorrelations do not signify the absence of change but rather stability in the rank ordering of individuals in that those who reported greater-than-average alcohol use at baseline continue to report greater-than-average alcohol use at follow-up (Caspi, Roberts, & Shiner, 2005). Additionally, we found the male actor effect was stronger than the female actor effect for alcohol-related problems, despite the fact women report lower levels of such problems. This result contrasts previous studies that reported greater relative stability for women (Brennan, Schutte, Moos, & Moos, 2011) or equal stability across the genders (Caetano, 1997). Nonetheless, men may exhibit greater relative stability in alcohol problems that are rooted in dependence as they arise from patterns of heavy alcohol use, which are more likely in men (Caetano, 1997). It is important to interpret our observed gender difference in the magnitude of the actor effect for alcohol problems cautiously, as this group of data was limited to five studies.

**Limitations and Future Directions**

Alcohol use among individuals was highly stable. As such, the variance available to be accounted for by partner use was relatively small. Moreover, our included studies involved variable time lags (one month to 12 years; see Table 1) and focused primarily on young couples (approximately 63% of couples were under 35 years old, on average). The influence of partners’ alcohol use shouldbe studied across different kinds of romantic relationships (e.g., open relationships, long-distance relationships) and across different developmental periods in which commitment and desire to maintain the relationship may differ (e.g., young casually-dating couples, older dating couples). Partner influences should also be studied using longer time lags between measurement points, so there is more variability to predict once baseline levels are controlled. However, the time lag between baseline and follow-up assessment in the included studies in the present meta-analysis ranged from one month to 12 years; therefore, the detection of partner influences over-and-above actor effects over a varied period is noteworthy. Indeed, our analyses revealed time lag as a significant moderator to partner influences.

Furthermore, our included studies lacked consistency regarding the way alcohol indicators were measured. This may have oversimplified the relationship between the partner’s baseline alcohol use and the individual’s subsequent alcohol use. For example, we were unable to detect subtleties in relation to partner influences and type of alcohol-related problem (e.g., physical vs. interpersonal alcohol-related problems). Next, our test of partner effects controlled for baseline alcohol use but did not account for selection effects prior to the baseline data. We found multiple moderators for the baseline relationships between female and male alcohol indicators (e.g., mean age of couple, measure of alcohol indicator time-lag). It is unclear how these findings would differ if individuals were also assessed prior to their partnerships.

 As our included studies were composed exclusively of participants from North America and Western Europe, the extent to which these results generalize to other regions of the world is unclear. Moreover, as the average ages of the samples in our included studies ranged from 15-54 years old, and onlyone of our 17 included studies involved a secondary/high school student sample, our results may not extend across the lifespan. Next, our results are limited to heterosexual partnerships despite our attempts to search for studies reporting on same-sex couples. Thus, it remains to be determined through future research whether such partner influences are operative in same-sex couples, and whether the observed gender differences are operative in female-female vs. male-male couples or whether they are limited to male-female relationships. Lastly, our results suggested publication bias for two relationships: MAI-T1 and MAI-T2, and MAU-T1 and MAU-T2. Our attempts to address publication bias included incorporating unpublished dissertations into our search strategy, calculating Egger’s regression to the intercept, and calculating “trim and effect” adjust estimates (a funnel-plot based method that corrects plot asymmetry among smaller studies) which adjusted the relationships by marginal amounts.

**Conclusion**

 Our meta-analysis represents the most comprehensive test of partner influences on alcohol use to date. Analyses indicated romantic partner alcohol use predicts subsequent alcohol use in an actor for both men and women. Our results demonstrated that romantic partners affect subsequent risky alcohol use behavior in an individual and support the need for partner involvement in alcohol interventions. Indeed, a meta-analysis concluded that behavioral couples therapy yields better outcomes than traditional individual-focused treatments for married or cohabiting individuals seeking help for an AUD (Powers, Vedel, & Emmelkamp, 2008). We found women influenced their male partner’s drinking more strongly than men influenced their female partner’s drinking (although we also found men’s influence increased as year of publication increased). Therefore, lighter partner drinking, particularly lighter drinking in the female partner, may serve as a protective factor against alcohol misuse. Addressing the powerful effects of partner drinking may assist in the modification of individual drinking behavior in the therapeutic context. In contrast, heavier partner drinking may interfere with an individual’s treatment for alcohol-use disturbances suggesting the need for treating the couple as a unit. Lastly, couples at most risk of escalating one another’s drinking could be identified and targeted for support tailored to the couple’s characteristics and needs. Our results further support the need for couples-based interventions and support the involvement of a client’s partner when treating AUDs.

References

References marked with an asterisk (\*) indicate studies included in the meta-analysis.

References with a double asterisk (\*\*) indicate excluded studies.

\*Aalsma, M. C., Carpentier, M. Y., Azzouz, F., & Fortenberry, J. D. (2012). Longitudinal effects of health-harming and health-protective behaviors within adolescent romantic dyads. *Social Science and Medicine, 74*, 1444-1451. doi:10.1016/j.socscimed.2012.01.014

Abelson, R. P. (1985). A variance explanation paradox: When a little is a lot. *Psychological Bulletin, 97*, 129-34. doi: 10.1037//0033-2909.97.1.129

\*\*Ahuja, A., Orford, J., & Copello, A. (2003). Understanding how families cope with alcohol problems in the UK west midlands Sikh community.*Contemporary Drug Problems, 30*, 839-873. doi:10.1177/009145090303000406

Aikins, J. W., Simon, V. A., & Prinstein, M. J. (2010). Romantic partner selection and socialization of young adolescents’ substance use and behavior problems. *Journal of Adolescence*, *33*, 813-826. doi: 10.1016/j.adolescence.2010.07.007

\*\*Albretsen, C., & Vaglum, P. (1973). The alcoholic's wife and her conflicting roles. *Scandinavian Journal of Social Medicine*, *1*, 7-12. doi: 10.1177/140349487300100103

\*\*Ali, M., & Ajilore, O. (2011). Can marriage reduce risky health behavior for African-Americans?*Journal of Family and Economic Issues, 32*, 191-203. doi:10.1007/s10834-010-9242-z

\*\*Allen, J. P., Chango, J., & Szwedo, D. (2014). The adolescent relational dialectic and the peer roots of adult social functioning. *Child Development, 85*, 192-204. doi:10.1111/cdev.12106

\*\*Alvarez, S., & Devouche, E. (2012). First French national survey on lifestyle and toxic factors in infertile couples.*Gynecologie, Obstetrique & Fertilite, 40*, 765. doi:10.1016/j.gyobfe.2012.09.023

\*\*Amato, P., & Rogers, S. (1997). A longitudinal study of marital problems and subsequent divorce.*Journal of Marriage and the Family, 59*, 612-624. doi:10.2307/353949

American Society of Addiction Medicine (2015). *What are the six dimensions of The ASAM Criteria?* Retrieved from: https://www.asamcontinuum.org/knowledgebase/what-are-the-six-dimensions-of-the-asam-criteria/

\*\*Anderson, A. S., Marshall, D. W., & Lea, E. J. (2004). Shared lives: An opportunity for obesity prevention?*Appetite, 43*, 327-329. doi:10.1016/j.appet.2004.07.007

\*\*Ansara, D. L., & Hindin, M. J. (2009). Perpetration of intimate partner aggression by men and women in the Philippines: Prevalence and associated factors.*Journal of Interpersonal Violence, 24*, 1579-1590. doi:10.1177/0886260508323660

Armor, D. J., & Polich, J. M. (1982). Measurement of alcohol consumption. In E. M. Pattison & E. Kaufman (Eds.), *Encyclopedic handbook of* *alcoholism* (pp. 72–81). New York, NY: Gardner Press.

\*\*Ask, H., Rognmo, K., Torvik, F., Røysamb, E., & Tambs, K. (2012). Non-random mating and convergence over time for alcohol consumption, smoking, and exercise: The Nord-Trøndelag health study.*Behavior Genetics, 42*, 354-365. doi:10.1007/s10519-011-9509-7

\*\*Auerbach, K. (2008). *Alcohol and marijuana use across the transition to marriage: Group differences and psychosocial factors* (Doctoral dissertation). Retrieved from ProQuest Dissertations & Theses Global (AAT 3431403)

\*\*Bachman, J. G., O'Malley, P. M., & Johnston, L. D. (1984). Drug use among young adults: The impacts of role status and social environment.*Journal of Personality and Social Psychology, 47*, 629-645. doi:10.1037/0022-3514.47.3.629

\*\*Bachman, J. G., Wadsworth, K. N., O'Malley, P. M., Schulenberg, J., & Johnston, L. D. (1997). Marriage, divorce, and parenthood during the transition to young adulthood: Impacts on drug use and abuse. In J. Schulenberg, J. L. Maggs, & K. Hurrelmann (Eds.), *Health risks and developmental transitions during adolescence* (pp. 246-279). New York, NY:Cambridge University Press.

\*\*Bahns, A. J., Crandall, C. S., Gillath, O., & Preacher, K. J. (2017). Similarity in relationships as niche construction: Choice, stability, and influence within dyads in a free choice environment.*Journal of Personality and Social Psychology, 112*, 329-355. doi:10.1037/pspp0000088

\*\*Bailey, J. A., Fleming, C. B., Catalano, R. F., Haggerty, K. P., & Manhart, L. E. (2012). Romantic relationship characteristics and alcohol use: Longitudinal associations with dual method contraception use.*Journal of Adolescent Health, 50*, 450-455. doi:10.1016/j.jadohealth.2011.09.008

\*\*Bakhireva, L., Wilsnack, S., Arlinda, K., Lyubov, Y., Svetlana, O., Wladimir, W., & Chambers, C. (2011). Paternal drinking, intimate relationship quality, and alcohol consumption in pregnant Ukrainian women.*Journal of Studies on Alcohol and Drugs, 72*, 536-544. doi:10.15288/jsad.2011.72.536

\*\*Balderrama-Durbin, C., Cigrang, J. A., Osborne, L. J., Snyder, D. K., Talcott, G. W., Slep, A. M. S., . . . Sonnek, S. (2015). Coming home: A prospective study of family reintegration following deployment to a war zone.*Psychological Services, 12*, 213-221. doi:10.1037/ser0000020

Bandura, A. (1977).*Social learning theory*. Englewood Cliffs, NJ: Prentice Hall.

\*Bartel, S., Sherry, S., Molnar, D., Mushquash, A., Leonard, K., Flett, G. & Stewart, S. H. (2017). Do romantic partners influence each other’s heavy episodic drinking? Support for the partner influence hypothesis in a three-year longitudinal study. *Addictive Behaviors,* *69*, 55-58. doi:10.1016/j.addbeh.2017.01.020

\*\*Bartley, M., Martikainen, P., Shipley, M., & Marmot, M. (2004). Gender differences in the relationship of partner's social class to behavioural risk factors and social support in the Whitehall II study.*Social Science and Medicine, 59*, 1925-1936. doi:10.1016/j.socscimed.2004.03.002

\*\*Bauermeister, J. A., Zimmerman, M. A., Caldwell, C. H., Xue, Y., & Gee, G. C. (2010). What predicts sex partners' age differences among African American youth? A longitudinal study from adolescence to young adulthood.*Journal of Sex Research, 47*, 330-344. doi:10.1080/00224490903015850

\*\*Baumann, B. (2004). *Alcohol use and dating violence: A high-school prevention model* (Doctoral dissertation)*.* Retrieved from ProQuest Dissertations & Theses Global (AAT 3182776).

Baumeister, R. & Leary, M. (1995). The need to belong: Desire for interpersonal attachments as a fundamental human motivation. *Psychological Bulletin,* *117*, 497-529. doi:10.1037/0033-2909.117.3.497

\*\*Beard, J., Umbach, D., Hoppin, J., Richards, M., Alavanja, M., Blair, A., . . . Kamel, F. (2011). Suicide and pesticide use among pesticide applicators and their spouses in the agricultural health study.*Environmental Health Perspectives, 119*, 1610–1615. doi:10.1289/ehp.1103413

\*\*Bell, S., & Lee, C. (2003). Perceived stress revisited: The women's health Australia project young cohort.*Psychology, Health and Medicine, 8*, 343-353. doi:10.1080/1354850031000135786

\*\*Billon, S., Lluch, A., R, G., Berthier, A., Siest, G., & Herbeth, B. (2002). Family resemblance in breakfast energy intake: The Stanislas family study.*European Journal of Clinical Nutrition, 56*, 1011. doi:10.1038/sj.ejcn.1601440

\*\*Birditt, K. S., Cranford, J. A., Manalel, J. A., & Antonucci, T. C. (2018). Drinking patterns among older couples: Longitudinal associations with negative marital quality.*Journals of Gerontology. Series B, Psychological Sciences and Social Sciences, 73*, 655-665. doi:10.1093/geronb/gbw073

Bischoff, R. (2007). Research on alcohol related problems. *Journal of Couple & Relationship Therapy,* *6*, 81-87.

\*\*Boden, J. M., Fergusson, D. M., & Horwood, L. J. (2012). Alcohol misuse and violent behavior: Findings from a 30-year longitudinal study.*Drug and Alcohol Dependence, 122*, 135-141. doi:10.1016/j.drugalcdep.2011.09.023

\*\*Boden, J. M., Fergusson, D. M., & Horwood, L. J. (2013). Alcohol misuse and relationship breakdown: Findings from a longitudinal birth cohort.*Drug and Alcohol Dependence, 133*, 115-120. doi:10.1016/j.drugalcdep.2013.05.023

\*\*Bogart, L., Collins, R., Ellickson, P., Martino, S., & Klein, D. (2005). Effects of early and later marriage on women's alcohol use in young adulthood: A prospective analysis.*Journal of Studies on Alcohol, 66*, 729-737. doi:10.15288/jsa.2005.66.729

Bongers, I.M.B., Van de Goor, L.A.M., Van Oers, J.A.M., Garretsen, H.F.L. (1998). Gender differences in alcohol related problems: Controlling for drinking behaviour. *Addiction, 93*, 411-421. doi: 10.1046/j.1360-0443.1998.9334119.x

Bowen, M. (1974). Alcoholism as viewed through family systems theory and family psychotherapy. *Annals of the New York Academy of Sciences,* *233*, 115-22. doi: 10.1111/j.1749-6632.1974.tb40288.x

\*\*Boye-Beaman, J. (1994). *The intergenerational transmission of physical aggression: A social learning model (Doctoral dissertation).* Retrieved from ProQuest Dissertations & Theses Global (AAT 9509094).

\*\*Brennan, P. L., Moos, R. H., & Kelly, K. M. (1994). Spouses of late-life problem drinkers: Functioning, coping responses, and family contexts.*Journal of Family Psychology, 8*, 447-457. doi:10.1037/0893-3200.8.4.447

Brennan, P., Schutte, K., Moos, B., & Moos, R. (2011). Twenty-year alcohol-consumption and drinking-problem trajectories of older men and women. *Journal of Studies on Alcohol and Drugs, 72*, 308-321. doi: 10.15288/jsad.2011.72.308

\*\*Brook, J., Zhang, C., Leukefeld, C., & Brook, D. (2016). Marijuana use from adolescence to adulthood: Developmental trajectories and their outcomes.*Social Psychiatry and Psychiatric Epidemiology, 51*, 1405-1415. doi:10.1007/s00127-016-1229-0

\*\*Buck Louis, G., Sapra, K., Schisterman, E., Lynch, C., Maisog, J., Grantz, K., & Sundaram, R. (2016). Lifestyle and pregnancy loss in a contemporary cohort of women recruited before conception: The LIFE study.*Fertility and Sterility, 106*, 180-188. doi:10.1016/j.fertnstert.2016.03.009

\*\*Bullers, S., Cooper, M. L., & Russell, M. (2001). Social network drinking and adult alcohol involvement: A longitudinal exploration of the direction of influence.*Addictive Behaviors, 26*, 181-199. doi:10.1016/S0306-4603(00)00099-X

Bush, K., Kivlahan, D. R., McDonell, M. B., Fihn, S. D., & Bradley, K. A. (1998). The AUDIT alcohol consumption questions (AUDIT-C): An effective brief screening test for problem drinking. *Archives of Internal Medicine, 158*, 1789-1795. doi:10.1001/archinte.158.16.1789

\*Buu, A., Wang, W., Wang, J., Puttler, L. I., Fitzgerald, H. E., & Zucker, R. A. (2011). Changes in women's alcoholic, antisocial, and depressive symptomatology over 12 years: A multilevel network of individual, familial, and neighborhood influences. *Development and Psychopathology, 23,* 325-337. doi:10.1017/S0954579410000830

Caetano, R. (1997). Prevalence, incidence and stability of drinking problems among whites, blacks and Hispanics: 1984-1992. *Journal of Studies on Alcohol,* *58*, 565-72.

doi: 10.15288/jsa.1997.58.565

\*\*Caetano, R., Ramisetty‐Mikler, S., & Mcgrath, C. (2003). Characteristics of non‐respondents in a US national longitudinal survey on drinking and intimate partner violence.*Addiction, 98*, 791-797. doi:10.1046/j.1360-0443.2003.00407.x

\*\*Caetano, R., Schafer, J., Fals‐Stewart, W., O' Farrell, T., & Miller, B. (2003). Intimate partner violence and drinking: New research on methodological issues, stability and change, and treatment.*Alcoholism: Clinical and Experimental Research, 27*, 292-300. doi:10.1097/01.ALC.0000057124.36127.45

\*\*Caetano, R., Ramisetty-Mikler, S., & McGrath, C. (2004). Acculturation, drinking, and intimate partner violence among Hispanic couples in the United States: A longitudinal study. *Hispanic Journal of Behavioral Sciences, 26*, 60-78. doi:10.1177/0739986303261812

\*\*Caetano, R., Mcgrath, C., Ramisetty‐Mikler, S., & Field, C. A. (2005). Drinking, alcohol problems and the five‐year recurrence and incidence of male to female and female to male partner violence.*Alcoholism: Clinical and Experimental Research, 29*, 98-106. doi:10.1097/01.ALC.0000150015.84381.63

\*\*Caetano, R., Ramisetty-Mikler, S., Caetano Vaeth, P. A., & Harris, T. R. (2007). Acculturation stress, drinking, and intimate partner violence among Hispanic couples in the U.S.*Journal of Interpersonal Violence, 22*, 1431-1447. doi:10.1177/0886260507305568

Cahalan, D., Cisin, I. H., & Crossley, H. M. (1969). *American drinking practices: A national survey of behavior and attitudes*. New Brunswick, NJ: Rutgers Center of Alcohol Studies.

Canadian Centre for Substance Use and Addiction (2018). *Canadian Substance Use Costs and Harms: 2007–2014 (Report).* Retrieved from: https://www.ccsa.ca/canadian-substance-use-costs-and-harms-2007-2014-report

Card, N.A. (2012). *Applied meta-analysis for social science research*. New York, NY: Guilford.

\*\*Carlson, M., Mclanahan, S., & England, P. (2004). Union formation in fragile families.*Demography, 41*, 237-261.

\*\*Carr, C. (2016). *Understanding the influence of romantic relationship seriousness on adolescent binge drinking and drinking consequences.* Retrieved from ProQuest Dissertations & Theses (AAT 10144091).

Caspi, A., Roberts, B., & Shiner, R. (2005). Personality development: Stability and change. *Annual Review of Psychology,* *56*(1), 453-484. doi: 10.1007/978-3-662-38517-3\_9

\*\*Cattaneo, L. B., & Goodman, L. A. (2003). Victim‐reported risk factors for continued abusive behavior: Assessing the dangerousness of arrested batterers.*Journal of Community Psychology, 31*, 349-369. doi:10.1002/jcop.10056

\*\*Chermack, S., Bonar, E., Ilgen, M., Walton, M., Cunningham, R., Booth, B., & Blow, F. (2017). Developing an Integrated Violence Prevention for Men and Women in Treatment for Substance Use Disorders. *Journal of Interpersonal Violence,* *32*, 581-603. doi:10.1177/0886260515586369

Cheung, M. W., & Chan, W. (2005). Meta-analytic structural equation modeling.*Psychological Methods, 10*, 40-64. doi:10.1037/1082-989X.10.1.40

Cheung, M. (2014). Fixed- and random-effects meta-analytic structural equation modeling: Examples and analyses in R. *Behavior Research Methods, 46*, 29-40.

Cheung, M. W. (2015). metaSEM: An R package for meta-analysis using structural equation modeling.*Frontiers in Psychology, 5*, 1521. doi:10.3389/fpsyg.2014.01521

Cheung, M. W., & Hong, R.Y. (2017). Applications of meta-analytic structural equation modelling in health psychology: Examples, issues, and recommendations.*Health Psychology Review, 11*, 265-279. doi:10.1080/17437199.2017.1343678

\*\*Chilcoat, H. D., & Breslau, N. (1996). Alcohol disorders in young adulthood: Effects of transitions into adult roles.*Journal of Health and Social Behavior, 37*, 339-349.

\*\*Christie-Mizell, C., & Peralta, R. (2009). The gender gap in alcohol consumption during late adolescence and young adulthood: Gendered attitudes and adult roles. *Journal of Health and Social Behavior, 50*, 410-426. doi:10.1177/002214650905000403

\*\*Cleveland, H. H. (2003). The influence of female and male risk on the occurrence of sexual intercourse within adolescent relationships.*Journal of Research on Adolescence, 13*, 81-112. doi:10.1111/1532-7795.1301003

\*\*Cleveland, H., Herrera, V., & Stuewig, J. (2003). Abusive males and abused females in adolescent relationships: Risk factor similarity and dissimilarity and the role of relationship seriousness.*Journal of Family Violence, 18*, 325-339. doi:1026297515314

Cohen, J. (1992). A Power Primer. *Psychological Bulletin,* *112*, 155-159. doi: 10.1037//0033-2909.112.1.155

\*\*Collibee, C., & Furman, W. (2018). A moderator model of alcohol use and dating aggression among young adults.*Journal of Youth and Adolescence, 47*, 534-546. doi:10.1007/s10964-017-0734-0

\*\*Cornelius, T., Desrosiers, A., & Kershaw, T. (2016). Spread of health behaviors in young couples: How relationship power shapes relational influence.*Social Science & Medicine, 165*, 46-55. doi:10.1016/j.socscimed.2016.07.030

\*\*Cox, M. (2016). *Examining bidirectional relationships between parental socialization behaviors and adolescent alcohol misuse across early and middle adolescence* (Doctoral dissertation). Retrieved from ProQuest Dissertations & Theses Global (AAT 10119832).

\*\*Crane, C. A., Testa, M., Derrick, J. L., & Leonard, K. E. (2014). Daily associations among self‐control, heavy episodic drinking, and relationship functioning: An examination of actor and partner effects.*Aggressive Behavior, 40*, 440-450. doi:10.1002/ab.21533

\*\*Cranford, J. A., Floyd, F. J., Schulenberg, J. E., & Zucker, R. A. (2011). Husbands' and wives' alcohol use disorders and marital interactions as longitudinal predictors of marital adjustment.*Journal of Abnormal Psychology, 120*, 210-222. doi:10.1037/a0021349

\*Cronkite, R. C., & Moos, R. H. (1984). The role of predisposing and moderating factors in the stress-illness relationship. *Journal of Health and Social Behavior, 25,* 372. doi:10.2307/2136377

\*\*Cruise, K. (1991). *Aggressive behavior across three generations: An examination of the relationships of aggression between grandparents, their children, and their children's children in young alcoholic families* (Doctoral dissertation). Retrieved from ProQuest Dissertations & Theses Global (AAT 9216292).

Cunradi, C., Mair, C., Ponicki, W., & Remer, L. (2012). Alcohol outlet density and intimate partner violence-related emergency department visits. *Alcoholism: Clinical and Experimental Research,* *36*, 847-853. doi:10.1111/j.1530-0277.2011.01683.x

\*\*Derrick, J., & Testa, M. (2017). Temporal effects of perpetrating or receiving intimate partner aggression on alcohol consumption: A daily diary study of community couples.*Journal of Studies on Alcohol and Drugs, 78*, 213. doi:10.15288/jsad.2017.78.213

\*Desrosiers, A., Thompson, A., Divney, A., Magriples, U., & Kershaw, T. (2016). Romantic partner influences on prenatal and postnatal substance use in young couples. *Journal of Public Health, 38*, 300-307. doi:10.1093/pubmed/fdv039

\*\*Dollar, K. M., Homish, G. G., Kozlowski, L. T., & Leonard, K. E. (2009). Spousal and alcohol-related predictors of smoking cessation: A longitudinal study in a community sample of married couples.*American Journal of Public Health, 99*, 231-233. doi:10.2105/AJPH.2008.140459

\*\*Duncan, S. C., Gau, J. M., Duncan, T. E., & Strycker, L. A. (2011). Development and correlates of alcohol use from ages 13-20. *Journal of Drug Education, 41*, 235-252.

Egger, M., Smith, G. D., Schneider, M., & Minder, C. (1997). Bias in meta-analyses detected by a simple graphical test. *BMJ, 315*, 629-634. doi: 10.1136/bmj.315.7109.629

\*\*Ehrensaft, M., & Cohen, P. (2012). Contribution of family violence to the intergenerational transmission of externalizing behavior.*Prevention Science, 13*, 370-383. doi:10.1007/s11121-011-0223-8

Engels, R.C.M.E., & Knibbe, R. A. (2000). Alcohol use and intimate relationships in adolescence: When love comes to town. *Addictive Behaviors, 25*, 435-439.

Eysenck, H. (1994). Meta-analysis and its problems. *British Medical Journal, 309*, 789-792.

doi: 10.1136/bmj.309.6957.789

\*\*Fairbairn, C. E., & Cranford, J. A. (2016). A multimethod examination of negative behaviors during couples’ interactions and problem drinking trajectories.*Journal of Abnormal Psychology, 125*, 805-810. doi:10.1037/abn0000186

Fairlie, A., Wood, M. & Laird, R. (2012). Prospective protective effect of parents on peer influences and college alcohol involvement. *Psychology of Addictive Behaviors,* *26*, 30-41. doi:10.1037/a0023879

\*\*Falba, T. A., & Sindelar, J. L. (2008). Spousal concordance in health behavior change.*Health Services Research, 43*, 96-116. doi:10.1111/j.1475-6773.2007.00754.x

\*\*Feingold, A., Washburn, I., Tiberio, S., & Capaldi, D. (2015). Changes in the associations of heavy drinking and drug use with intimate partner violence in early adulthood.*Journal of Family Violence, 30*, 27-34. doi:10.1007/s10896-014-9658-6

\*\*Field, C., & Caetano, R. (2004). Ethnic differences in intimate partner violence in the U.S. general population: The role of alcohol use and socioeconomic status. *Trauma, Violence, & Abuse, 5*, 303-317. doi:10.1177/1524838004269488

\*\*Fillmore, K. M., Golding, J. M., Leino, E. V., Motoyoshi, M., Shoemaker, C., Terry, H., . . . Ferrer, H. P. (1997). Patterns and trends in women's and men's drinking. In R. W. Wilsnack & S. C. Wilsnack (Eds.), *Gender and Alcohol: Individual and Social Perspectives* (pp. 21-48). Piscataway, NJ: Rutgers Center of Alcohol Studies.

\*\*Finger, B., Eiden, R. D., Edwards, E. P., Leonard, K. E., & Kachadourian, L. (2010). Marital aggression and child peer competence: A comparison of three conceptual models.*Personal Relationships, 17*, 357-376. doi:10.1111/j.1475-6811.2010.01284.x

\*\*Fleming, C., White, H., & Catalano, R. (2010). Romantic relationships and substance use in early adulthood: An examination of the influences of relationship type, partner substance use, and relationship quality. *Journal of Health and Social Behavior, 51*, 153-167. doi:10.1177/0022146510368930

\*\*Flores, S. (1999). *Alcohol use and sexual risk behaviors in adolescent couples* (Doctoral dissertation). Retrieved from ProQuest Dissertations & Theses Global (AAT 9940774).

\*\*Foulstone, A. R., Kelly, A. B., Kifle, T., & Baxter, J. (2016). Heavy alcohol use in the couple context: A nationally representative longitudinal study.*Substance Use and Misuse, 51*, 1441-1450. doi:10.1080/10826084.2016.1178295

\*\*Fuller, B., Chermack, S., Cruise, K., & Kirsch, E. (2003). Predictors of aggression across three generations among sons of alcoholics: Relationships involving grandparental and parental alcoholism, child aggression, marital aggression and parenting practices.*Journal of Studies on Alcohol, 64*, 472-483. doi:10.15288/jsa.2003.64.472

\*\*Gamarel, K. E., Neilands, T. B., Dilworth, S. E., Taylor, J. M., & Johnson, M. O. (2015). Smoking, internalized heterosexism, and HIV disease management among male couples.*AIDS Care, 27*, 649-654. doi:10.1080/09540121.2014.991269

\*\*Goldscheider, F., Scott, M., Lilja, E., & Bronte-Tinkew, J. (2015). Becoming a single parent: The role of father and mother characteristics.*Journal of Family Issues, 36*, 1624-1650. doi:10.1177/0192513X13508405

\*\*Gudonis-Miller, Lauren C., Lewis, L., Tong, Y, Tu, W., & Aalsma, M. (2011). Adolescent romantic couples influence on substance use in young adulthood.*Journal of Adolescence, 35*, 638-647. doi:10.1016/j.adolescence.2011.08.011

\*\*Haberer, J. E., Kidoguchi, L., Heffron, R., Mugo, N., Bukusi, E., Katabira, E., . . . Baeten, J. M. (2017). Alignment of adherence and risk for HIV acquisition in a demonstration project of pre-exposure prophylaxis among HIV serodiscordant couples in Kenya and Uganda: A prospective analysis of prevention-effective adherence.*Journal of the International AIDS Society, 20*, 1-9. doi:10.7448/IAS.20.1.21842

Halkitis, P.N., & Parsons, J.T. (2002). Recreational drug use and HIV-risk sexual behavior among men frequenting gay social venues. *Journal of Gay and Lesbian Social Services, 14*, 19–36.

\*Hellmuth, J., Gordon, K., Stuart, G., & Moore, T. (2013). Women’s intimate partner violence perpetration during pregnancy and postpartum. *Maternal and Child Health Journal, 17*, 1405-1413. doi:10.1007/s10995-012-1141-5

\*\*Hessler, D. (2008). *Family stressors, emotional competence, and adolescent risky behavior* (Doctoral dissertation)*.* Retrieved from ProQuest Dissertations & Theses Global. (AAT 3303287).

\*\*Heyman, R. E., O'Leary, K. D., & Jouriles, E. N. (1995). Alcohol and aggressive personality styles: Potentiators of serious physical aggression against wives?*Journal of Family Psychology, 9*, 44-57. doi:10.1037/0893-3200.9.1.44

\*\*Hirshfeld, A. (2005). *Secondary effects of traumatization among spouses and partners of newly recruited police officers* (Doctoral dissertation)*.* Retrieved from ProQuest Dissertations & Theses Global (AAT 3191973).

\*\*Holway, G., Umberson, D., & Thomeer, M. (2017). Binge drinking and depression: The influence of romantic partners in young adulthood. *Society and Mental Health, 7*, 36-49. doi:10.1177/2156869316674056

\*\*Homish, G., & Leonard, K. (2007). The drinking partnership and marital satisfaction: The longitudinal influence of discrepant drinking. *Journal of Consulting and Clinical Psychology,* *75*, 43-51. doi: 10.1037/0022-006x.75.1.43

Homish, G., & Leonard, K. (2008). The social network and alcohol use. *Journal of Studies on Alcohol and Drugs,* *69*, 27-14. doi: 10.15288/jsad.2008.69.906

\*\*Homish, G. G., Leonard, K. E., & Cornelius, J. R. (2007). Predictors of marijuana use among married couples: The influence of one's spouse.*Drug and Alcohol Dependence, 91*, 121-128. doi:10.1016/j.drugalcdep.2007.05.014

\*\*Homish, G. G., Leonard, K. E., & Cornelius, J. R. (2010). Individual, partner and relationship factors associated with non‐medical use of prescription drugs.*Addiction, 105*, 1457-1465. doi:10.1111/j.1360-0443.2010.02986.x

\*\*Homish, G. G., Leonard, K. E., & Kearns-Bodkin, J. (2006a). Alcohol use, alcohol problems, and depressive symptomatology among newly married couples.*Drug and Alcohol Dependence, 83*, 185-192. doi:10.1016/j.drugalcdep.2005.10.017

\*\*Homish, G. G., Leonard, K. E., & Kearns-Bodkin, J. (2006b). Alcohol use, alcohol problems, and depressive symptomatology among newly married couples.*Drug and Alcohol Dependence, 83*, 185-192. doi:10.1016/j.drugalcdep.2005.10.017

\*\*Homish, G. G., Leonard, K. E., Kozlowski, L. T., & Cornelius, J. R. (2009). The longitudinal association between multiple substance use discrepancies and marital satisfaction.*Addiction, 104*, 1201-1209. doi:10.1111/j.1360-0443.2009.02614.x

\*\*Homish, G. G., Leonard, K. E., & Kearns-Bodkin, J. N. (2006c). Alcohol use, alcohol problems, and depressive symptomatology among newly married couples.*Drug and Alcohol Dependence, 83*, 185-192. doi:10.1016/j.drugalcdep.2005.10.017

\*\*Homish, G., & Leonard, K. (2005). Marital quality and congruent drinking.*Journal of Studies on Alcohol, 66*, 488-496. doi:10.15288/jsa.2005.66.488

Hu, L. T., & Bentler, P. M. (1999). Cutoff criteria for fit indexes in covariance structure analysis: Conventional criteria versus new alternatives. *Structural Equation Modeling: A Multidisciplinary Journal, 6*, 1-55. doi: 10.1080/10705519909540118

Hunter, J. E., & Schmidt, F. L. (1990). Dichotomization of continuous variables: Implications for meta-analysis. *Journal of Applied Psychology, 75*, 334-349. doi: 10.1037/0021-9010.75.3.334

Jackson, D., Riley, R., & White, I. (2011). Multivariate meta‐analysis: Potential and promise. *Statistics in Medicine, 30*, 2481-2498. doi: 10.1002/sim.4172

\*\*Jensen, T., Henriksen, T., Hjollund, N., Scheike, T., Kolstad, H., Giwercman, A., . . . Olsen, J. (1998). Adult and prenatal exposures to tobacco smoke as risk indicators of fertility among 430 Danish couples.*American Journal of Epidemiology, 148*, 992-997.

\*\*Jensen, T. K., Hjollund, N. H. I., Henriksen, T. B., Scheike, T., Kolstad, H., Giwercman, A., . . . Olsen, J. (1998). Does moderate alcohol consumption affect fertility? follow up study among couples planning first pregnancy.*British Medical Journal, 317*, 505-510. doi:10.1136/bmj.317.7157.505

\*\*Kachadourian, L. K., Homish, G. G., Quigley, B. M., & Leonard, K. E. (2012). Alcohol expectancies, alcohol use, and hostility as longitudinal predictors of alcohol-related aggression.*Psychology of Addictive Behaviors, 26*, 414-422. doi:10.1037/a0025842

\*\*Kearns‐Bodkin, J. N., & Leonard, K. E. (2005). Alcohol involvement and marital quality in the early years of marriage: A longitudinal growth curve analysis.*Alcoholism: Clinical and Experimental Research, 29*, 2123-2134. doi:10.1097/01.alc.0000191751.62025.77

\*\*Kearns-Bodkin, J., & Leonard, K. (2008). Relationship functioning among adult children of alcoholics.*Journal of Studies on Alcohol and Drugs, 69*, 35-50. doi:10.15288/jsad.2008.69.941

\*\*Keenan, K., Kenward, M., Grundy, E., & Leon, D. (2013). Longitudinal prediction of divorce in Russia: The role of individual and couple drinking patterns. *Alcohol and Alcoholism, 48*, 737-742. doi: 10.1093/alcalc/agt068

\*Kehayes, I. L., Mackinnon, S. P., Sherry, S. B., Leonard, K. E., & Stewart, S. H. (2017). Similarity in romantic couples' drinking motivations and drinking behaviors. *Substance Abuse, 38*, 488-492. doi:10.1080/08897077.2017.1355869

\*\*Keiley, M. K., Keller, P. S., & El‐Sheikh, M. (2009). Effects of physical and verbal aggression, depression, and anxiety on drinking behavior of married partners: A prospective and retrospective longitudinal examination.*Aggressive Behavior, 35*, 296-312. doi:10.1002/ab.20310

\*\*Keller, P. S., Cummings, E. M., Davies, P. T., & Mitchell, P. M. (2008). Longitudinal relations between parental drinking problems, family functioning, and child adjustment.*Development and Psychopathology, 20*, 195-212. doi:10.1017/S0954579408000096

\*Keller, P. S., El-Sheikh, M., Keiley, M., & Liao, P. (2009). Longitudinal relations between marital aggression and alcohol problems. *Psychology of Addictive Behaviors, 23,* 2-13. doi:10.1037/a0013459

\*\*Kelly, A. B., Halford, W. K., & Young, R. M. (2000). Maritally distressed women with alcohol problems: The impact of a short‐term alcohol‐focused intervention on drinking behaviour and marital satisfaction.*Addiction, 95*, 1537-1549. doi:10.1046/j.1360-0443.2000.951015378.x

\*\*Kendler, K. S., Lönn, S. L., Salvatore, J., Sundquist, J., & Sundquist, K. (2016). Effect of marriage on risk for onset of alcohol use disorder: A longitudinal and co-relative analysis in a Swedish national sample.*The American Journal of Psychiatry, 173*, 911. doi:10.1176/appi.ajp.2016.15111373

Kerr, W., Fillmore, K., & Bostrom, A. (2002). Stability of alcohol consumption over time: Evidence from three longitudinal surveys from the United States. *Journal of Studies on Alcohol, 63*, 325-33. doi: 10.15288/jsa.2002.63.325

Keyes, K. M., Grant, B. F., & Hasin, D. S. (2008). Evidence for a closing gender gap in alcohol use, abuse, and dependence in the United States population. *Drug and Alcohol Dependence, 93*, 21-29. doi: 10.1016/j.drugalcdep.2007.08.017

\*\*Kim, H. K., Tiberio, S. S., Pears, K. C., Capaldi, D. M., & Washburn, I. J. (2013). Growth of men’s alcohol use in early adulthood: Intimate partners’ influence.*Psychology of Addictive Behaviors, 27*, 1167-1174. doi:10.1037/a0033502

\*\*Klonoff-Cohen, H., Lam-Kruglick, P., & Gonzalez, C. (2003). Effects of maternal and paternal alcohol consumption on the success rates of in vitro fertilization and gamete intrafallopian transfer.*Fertility and Sterility, 79*, 330-339. doi:10.1016/S0015-0282(02)04582-X

Knott, C., Bell, S., & Britton, A. (2018). The stability of baseline‐defined categories of alcohol consumption during the adult life‐course: A 28‐year prospective cohort study. *Addiction,* *113*, 34-43. doi: 10.1111/add.13949

\*\*Kogan, M. (1987). *The impact on the health status of the spouse due to chronic illness and disability in the partner* (Doctoral dissertation)*.* Retrieved from ProQuest Dissertations & Theses Global. (AAT 3303287).

\*\*Kreager, D., & Haynie, D. (2011). Dangerous liaisons? Dating and drinking diffusion in adolescent peer networks. *American Sociological Review, 76*, 737-763. doi:10.1177/0003122411416934

Labouvie, E. (1996). Maturing out of substance use: Selection and self-correction. *Journal of Drug Issues*, *26*, 457-476. doi: 10.1177/002204269602600208

\*\*Lambe, L., Mackinnon, S. P., & Stewart, S. H. (2015). Dyadic conflict, drinking to cope, and alcohol-related problems: A psychometric study and longitudinal actor-partner interdependence model.*Journal of Family Psychology, 29*, 697-707. doi:10.1037/fam0000098

Landis, R. S. (2013). Successfully combining meta-analysis and structural equation modeling: Recommendations and strategies. *Journal of Business and Psychology, 28*, 251-261. doi:10.1007/s10869-013-9285-x

Latané, B. (1981). The psychology of social impact. *American Psychologist,* *36*, 343-356. doi:10.1037/0003-066X.36.4.343

\*\*Lee, B., Park, S., Ryu, H., Shin, C., Ko, K., Han, J., . . . Cho, Y. (2015). Changes in the methylation status of DAT, SERT, and MeCP2 gene promoters in the blood cell in families exposed to alcohol during the periconceptional period.*Alcoholism: Clinical and Experimental Research, 39*, 239-250. doi:10.1111/acer.12635

\*Leonard, K. E., & Das Eiden, R. (1999). Husband's and wife's drinking: Unilateral or bilateral influences among newlyweds in a general population sample. *Journal of Studies on Alcohol. Supplement, 13,* 130-138. doi:10.15288/jsas.1999.s13.130

\*\*Leonard, K. E., & Mudar, P. (2003). Peer and partner drinking and the transition to marriage: A longitudinal examination of selection and influence processes.*Psychology of Addictive Behaviors, 17*, 115-125. doi:10.1037/0893-164X.17.2.115

\*Leonard, K. E., & Mudar, P. (2004). Husbands' influence on wives' drinking: Testing a relationship motivation model in the early years of marriage *Psychology of Addictive Behaviors, 18,* 340-349. doi:10.1037/0893-164X.18.4.340

Leonard, K. E., & Senchak, M. (1993). Alcohol and premarital aggression among newlywed couples. *Journal of Studies on Alcohol, Supplement*, 11, 96-108. doi:10.15288/jsas.1993.s11.96

\*\*Leonard, K. E., Smith, P. H., & Homish, G. G. (2014). Concordant and discordant alcohol, tobacco, and marijuana use as predictors of marital dissolution.*Psychology of Addictive Behaviors, 28*, 780-789. doi:10.1037/a0034053

\*\*Leonard, K. E., & Roberts, L. (1998). Marital aggression, quality, and stability in the first year of marriage: Findings from the Buffalo newlywed study. In R. Weiss & T. Bradbury (Eds.), *The Developmental Course of Marital Dysfunction* (pp. 44-73). Cambridge, UK: Cambridge University Press. doi:10.1017/CBO9780511527814.004

\*\*Levitt, A., Derrick, J., & Testa, M. (2014). Relationship-specific alcohol expectancies and gender moderate the effects of relationship drinking contexts on daily relationship functioning.*Journal of Studies on Alcohol and Drugs, 75*, 269-78.

\*\*Levitt, A., & Leonard, K. E. (2013). Relationship-specific alcohol expectancies and relationship-drinking contexts: Reciprocal influence and gender-specific effects over the first 9 years of marriage.*Psychology of Addictive Behaviors, 27*, 986-996. doi:10.1037/a0030821

\*\*Lynch, C. D., Sundaram, R., Maisog, J. M., Sweeney, A. M., & Buck Louis, G. M. (2014). Preconception stress increases the risk of infertility: Results from a couple-based prospective cohort study—the LIFE study.*Human Reproduction, 29*, 1067-1075. doi:10.1093/humrep/deu032

\*Mahedy, L., Hammerton, G., Teyhan, A., Edwards, A., Kendler, K., Moore, S. . . . Heron, J. (2017). Parental alcohol use and risk of behavioral and emotional problems in offspring. *PLoS One, 12*, e0178862. doi:10.1371/journal.pone.0178862

\*\*Martinez, I. (2016). *Emerging epidemics: Individual, interpersonal and structural factors influencing syndemic risk among adolescent girls in the U.S.* (Doctoral dissertation). Retrieved from ProQuest Dissertations & Theses Global (AAT 10160867).

\*\*McAweeney, M., Zucker, R., Fitzgerald, H., Puttler, L., & Wong, M. (2005). Individual and partner predictors of recovery from alcohol-use disorder over a nine-year interval: Findings from a community sample of alcoholic married men.*Journal of Studies on Alcohol, 66*, 220-228. doi:10.15288/jsa.2005.66.220

McPherson, M., Smith-Lovin, L., & Cook, J. M. (2001). Birds of a feather: Homophily in social networks. *Annual Review of Sociology*, *27*, 415-444. doi: 10.1007/978-3-658-21742-6\_91

\*\*Meacham, M. C., Bailey, J. A., Hill, K. G., Epstein, M., & Hawkins, J. D. (2013). Alcohol and tobacco use disorder comorbidity in young adults and the influence of romantic partner environments.*Drug and Alcohol Dependence, 132*, 149-157. doi:10.1016/j.drugalcdep.2013.01.017

\*\*Merline, A. (2004). *Substance use and marriage: Selection, change and interpersonal influence* (Doctoral dissertation)*.* Retrieved from ProQuest Dissertations & Theses Global. (AAT 3150043).

\*\*Miller, K. E., Koffel, E., Kramer, M. D., Erbes, C. R., Arbisi, P. A., & Polusny, M. A. (2018). At-home partner sleep functioning over the course of military deployment.*Journal of Family Psychology, 32*, 114-122. doi:10.1037/fam0000262

Moher D., Liberati, A., Tetzlaff, J., Altman, D.G., & The PRISMA Group. (2009). Preferred reporting items for systematic reviews and meta-analyses: The PRISMA statement. *PLoS Medicine, 6*, e1000097. doi:10.1371/journal.pmed1000097

\*\*Moos, R. H., Schutte, K. K., Brennan, P. L., & Moos, B. S. (2011). Personal, family and social functioning among older couples concordant and discordant for high‐risk alcohol consumption.*Addiction, 106*, 324-334. doi:10.1111/j.1360-0443.2010.03115.x

Moreland, R., & Zajonc, R. (1982). Exposure effects in person perception: Familiarity, similarity, and attraction. *Journal of Experimental Social Psychology*, *18*, 395-415. doi:10.1016/0022-1031(82)90062-2

\*\*Mudar, P., Kearns, J. N., & Leonard, K. E. (2002). The transition to marriage and changes in alcohol involvement among Black couples and White couples.*Journal of Studies on Alcohol, 63*, 568-576. doi:10.15288/jsa.2002.63.568

\*Mushquash, A. R., Stewart, S. H., Sherry, S. B., Mackinnon, S. P., Antony, M. M., & Sherry, D. L. (2013). Heavy episodic drinking among dating partners: A longitudinal actor-partner interdependence model. *Psychology of Addictive Behaviors,* *27*, 178-183. doi:10.1037/a0026653

National Institute on Drug Abuse. (2017). Trends & Statistics. Retrieved from: <https://www.drugabuse.gov/related-topics/trends-statistics>

Nolen-Hoeksema, S. (2004). Gender differences in risk factors and consequences for alcohol use and problems. *Clinical Psychology Review,* *24*, 981-1010. doi: 10.1016/j.cpr.2004.08.003

\*\*Ostermann, J., Sloan, F. A., & Taylor, D. H. (2005). Heavy alcohol use and marital dissolution in the USA.*Social Science and Medicine, 61*, 2304-2316. doi:10.1016/j.socscimed.2005.07.021

\*Otten, R., van der Zwaluw, C.S, van der Vorst, H., & Engels, R. C. M. E. (2008). Partner effects and bidirectional parent-child effects in family alcohol use.*European Addiction Research, 14*, 106-112. doi:10.1159/000113725

\*\*Passaro, K. T., Little, R. E., Savitz, D. A., & Noss, J. (1998). Effect of paternal alcohol consumption before conception on infant birth weight. *Teratology, 57*, 294-301. doi: 10.1002/(SICI)1096-9926(199806)57:6<294::AID-TERA2>3.0.CO;2-X

Perkins, H. (2002). Surveying the damage: A review of research on consequences of alcohol misuse in college populations. *Journal of Studies on Alcohol, 14*, 91-100.

doi: 10.15288/jsas.2002.s14.91

\*\*Ping-Hsin, C. (2004). Gender differences in adolescent and young adult predictors of later intimate partner violence.*Violence Against Women, 10*, 1283-1301. doi:10.1177/1077801204269000

\*\*Power, C., Rodgers, B., & Hope, S. (1999). Heavy alcohol consumption and marital status: Disentangling the relationship in a national study of young adults.*Addiction, 94*, 1477-1487. doi:10.1046/j.1360-0443.1999.941014774.x

Powers, M. B., Vedel, E., & Emmelkamp, P. M. (2008). Behavioral couples therapy (BCT) for alcohol and drug use disorders: A meta-analysis. *Clinical Psychology Review*, *28*, 952-962. doi: 10.1016/j.cpr.2008.02.002

Public Health Agency of Canada. (2016). *The chief public health officer's report on the state of public health in Canada, 2015: Alcohol consumption in Canada*. *Government of Canada*. Retrieved from https://www.canada.ca/en/publichealth/services/publications/chief-public-health-officer-reports-state-public-health-canada/2015alcohol-consumption-canada.html

R Core Team. (2013). *R: A language and environment for statistical computing.* R Foundation for Statistical Computing, Vienna, Austria. Retrieved from: http://www.R-project.org/.

Raitasalo, K., & Holmila, M. (2005). The role of the spouse in regulating one drinking. *Addiction Research & Theory*, *13*, 137-144. doi: 10.1080/16066350512331328140

\*\*Reczek, C., Pudrovska, T., Carr, D., Thomeer, M. B., & Umberson, D. (2016). Marital histories and heavy alcohol use among older adults.*Journal of Health and Social Behavior, 57*, 77-96. doi:10.1177/0022146515628028

\*\*Richman, J. A., Rospenda, K. M., & Kelley, M. A. (1995). Gender roles and alcohol abuse across the transition to parenthood. *Journal of Studies on Alcohol, 56*, 553. doi:10.15288/jsa.1995.56.553

Roberts, L., & Leonard, K. (1998). An empirical typology of drinking partnerships and their relationship to marital functioning and drinking consequences. *Journal of Marriage and Family,* *60*, 515-526. doi:10.2307/353866

\*\*Rodriguez, L. M., & Neighbors, C. (2015). An interdependent look at perceptions of spousal drinking problems and marital outcomes.*Alcohol, 49*, 597-605. doi:10.1016/j.alcohol.2015.05.002

\*Rodriguez, L., Neighbors, C., & Knee, C. (2014). Problematic alcohol use and marital distress: An interdependence theory perspective*. Addiction Research & Theory, 22*, 294-312. doi:10.3109/16066359.2013.841890

\*Rogers, M. (2002). *In sickness and in health: The effects of disability on the psychological well -being of married couples at midlife* (Doctoral dissertation)*.* Retrieved from ProQuest Dissertations & Theses Global. (AAT 3050960).

\*\*Rognmo, K., Torvik, F., Idstad, M., & Tambs, K. (2013). More mental health problems after divorce in couples with high pre-divorce alcohol consumption than in other divorced couples: Results from the HUNT-study.*BMC Public Health, 13*. doi:10.1186/1471-2458-13-852

\*\*Rosema, S., Muscara, F., Anderson, V., Godfrey, C., Eren, S., & Catroppa, C. (2014). Agreement on and predictors of long-term psychosocial development 16 years post-childhood traumatic brain injury.*Journal of Neurotrauma, 31*, 899-905. doi:10.1089/neu.2013.3226

\*\*Rosenquist, J. N., Murabito, J., Fowler, J. H., & Christakis, N. A. (2010). The spread of alcohol consumption behavior in a large social network.*Annals of Internal Medicine, 152*, 426. doi:10.7326/0003-4819-152-7-201004060-00007

\*\*Rouse, B. A. (1980). *A longitudinal study of conjugal family factors and alcohol intake in a Framingham cohort* (Doctoral dissertation). Retrieved from ProQuest Dissertations & Theses Global. (AAT 8104420).

\*\*Rouvès, V., & Poulin, F. (2014). Est-ce que la relation amoureuse constitue un contexte favorable à la consommation d’alcool à la fin de l’adolescence? (Is a relationship a favorable context for drinking in late adolescence?)*Canadian Journal of Behavioural Science, 46*, 525-534. doi:10.1037/a0033766

\*\*Sabia, J. J. (2004). Alcohol consumption and domestic violence against mothers.*Journal of Mental Health Policy and Economics, 7*, 191-205. doi:10.1200/JCO.2005.05.126

Sacks, J.J., Gonzales,K.R., Bouchery, E.E., Tomedi, L.E., & Brewer, R.D. (2015). 2010 National and state costs of excessive alcohol consumption*. American Journal of Preventive Medicine*, *49*, 73-79. doi:10.1016/j.amepre.2015.05.031

Saunders, J. B., Aasland, O. G., Babor, T. F., De la Fuente, J. R., & Grant, M. (1993). Development of the alcohol use disorders identification test (AUDIT): WHO collaborative project on early detection of persons with harmful alcohol consumption‐II. *Addiction*, *88*, 791-804.

\*\*Schluter, P.J., Tautolo, E., Taylor, S., & Paterson, J. (2013). Alcohol consumption by parents of pacific families residing in New Zealand: Findings from the Pacific Islands families study.*Alcohol, 47*, 241-248. doi:10.1016/j.alcohol.2012.12.009

\*\*Seilhamer, R. A., Jacob, T., & Dunn, N. J. (1993). The impact of alcohol consumption on parent-child relationships in families of alcoholics.*Journal of Studies on Alcohol, 54*, 189-198. doi:10.15288/jsa.1993.54.189

Selzer, M. (1971). The Michigan Alcoholism Screening Test: The quest for a new diagnostic instrument. *American Journal of Psychiatry, 127,* 1653–1658.

Skinner, H. A., & Horn, J. L. (1984). *Alcohol dependence scale: User’s guide.* Toronto, Canada: Addiction Research Foundation [now the Centre for Addiction and Mental Health]. doi: 10.1037/14344-015

\*\*Sponheim, S. (1994). *The association between parental alcoholism, family environment, and externalizing behavior in pre-adolescent boys* (Doctoral dissertation)*.* Retrieved from ProQuest Dissertations & Theses Global (AAT 9512720)

Substance Abuse and Mental Health Services Administration (SAMHSA). (2017). *Reports and Detailed Tables From the 2017 National Survey on Drug Use and Health (NSDUH)*. Retrieved from: https://www.samhsa.gov/data/nsduh/reports-detailed-tables-2017-NSDUH

\*Temple, J. R., Weston, R., Stuart, G. L., & Marshall, L. L. (2008). The longitudinal association between alcohol use and intimate partner violence among ethnically diverse community women.*Addictive Behaviors, 33*, 1244-1248. doi:10.1016/j.addbeh.2008.05.005

\*\*Terling-Watt, T. (2001). Explaining divorce: An examination of the relationship between marital characteristics and divorce. *Journal of Divorce and Remarriage, 35*, 125-145. doi:10.1300/J087v35n03\_08

\*\*Testa, M., Hoffman, J. H., & Leonard, K. E. (2011). Female intimate partner violence perpetration: Stability and predictors of mutual and nonmutual aggression across the first year of college.*Aggressive Behavior, 37*, 362-373. doi:10.1002/ab.20391

\*\*Thomsen, A. M. L., Riis, A. H., Olsen, J., Jönsson, B. A. G., Lindh, C. H., Hjollund, N. H., . . . Toft, G. (2017). Female exposure to phthalates and time to pregnancy: A first pregnancy planner study.*Human Reproduction, 32*, 232-238. doi:10.1093/humrep/dew291

\*\*Timko, C., Kaplowitz, M. S., & Moos, R. H. (2000). Children's health and child-parent relationships as predictors of problem-drinking mothers' and fathers' long-term adaptation.*Journal of Substance Abuse, 11*, 103. doi:10.1016/S0899-3289(99)00023-1

\*\*Torvik, F. A., Gustavson, K., Røysamb, E., & Tambs, K. (2015). Health, health behaviors, and health dissimilarities predict divorce: Results from the HUNT study. *BMC Psychology*, *3*, doi:10.1186/s40359-015-0072-5

\*\*Ulloa, E., & Hammett, J. (2016). The effect of gender and perpetrator–victim role on mental health outcomes and risk behaviors associated with intimate partner violence. *Journal of Interpersonal Violence, 31*, 1184-1207. doi:10.1177/0886260514564163

\*\*Vance, J., Boyle, F., Najman, J., & Thearle, M. (2002). Couple distress after sudden infant or perinatal death: A 30‐month follow up.*Journal of Paediatrics and Child Health, 38*(4), 368-372. doi:10.1046/j.1440-1754.2002.00008.x

Van der Wulp, N., Hoving, Y., & De Vries, C. (2015). Partner’s influences and other correlates of prenatal alcohol use*. Maternal and Child Health Journal, 19*, 908-916.

doi: 10.1007/s10995-014-1592-y

Wickham, R., & Knee, C. (2012). Interdependence theory and the actor–partner interdependence model: Where theory and method converge. *Personality and Social Psychology Review,* *16*, 375-393. doi: 10.1177/1088868312447897

\*\*Wiersma, J., & Fischer, J. (2014). Young adult drinking partnerships: Alcohol-related consequences and relationship problems six years later.*Journal of Studies on Alcohol and Drugs, 75*, 704-712. doi:10.15288/jsad.2014.75.704

White, H.R., & Labouvie, E.W. (1989). Towards the assessment of adolescent problem drinking. *Journal of Studies on Alcohol*, *50*, 30-37. doi: 10.15288/jsa.1989.50.30

Wilsnack, R. W., Wilsnack, S. C., Kristjanson, A. F., Vogeltanz‐Holm, N. D., & Gmel, G. (2009). Gender and alcohol consumption: Patterns from the multinational GENACIS project. *Addiction, 104*, 1487-1500. doi: 10.1111/j.1360-0443.2009.02696.x

\*Windle, M., & Windle, R. C. (2014). A prospective study of alcohol use among middle-aged adults and marital partner influences on drinking. *Journal of Studies on Alcohol and Drugs, 75*, 546-556. doi:10.15288/jsad.2014.75.546

World Health Organization. (2014). *Global status report on alcohol and health*. Geneva, Switzerland: World Health Organization Press.

Yamaguchi, K., & Kandel, D. (1993). Marital homophily on illicit drug use among young adults: Assortative mating or marital influence? *Social Forces, 72*, 505-28. doi: 10.2307/2579859

\*\*Youngblut, J. M., Brooten, D., Cantwell, G. P., Del Moral, T., & Totapally, B. (2013). Parent health and functioning 13 months after infant or child NICU/PICU death.*Pediatrics, 132*, 1295-1301. doi:10.1542/peds.2013-1194

Zucker, R. A., Fitzgerald, H. E., & Noll, R. B. (1990). *Drinking and drug history (version 4).* East Lansing, MI: Michigan State University.

\*\*Zwaluw, C., Scholte, R., Vermulst, A., Buitelaar, J., Verkes, R., & Engels, R. (2009). The crown of love: Intimate relations and alcohol use in adolescence.*European Child Adolescent Psychiatry, 18*, 407-417. doi:10.1007/s00787-009-0748-6

Table 1

*Characteristics of longitudinal studies included in the meta-analysis*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | *N*  | Sampletype | Couple age | Timelag (months) | Attrition% | Caucasian % | Relationship length (years) | Status | Alcohol indicator |
| Aalsma et al. (2012) | 80 | Adolescents1 | 15.6 | 12.0 | 78.6 | 89.0 | NR | A | Frequency |
| Bartel et al. (2017) | 179 | Community1 | 31.0 | 36.0 | 39.7 | NR | 7.45 | A | Binge |
| Buu et al. (2011) | 84 | Married high-risk parents2 | 32.0 | 144.0 | 69.2 | 100.0 | NR | A | DDHQ |
| Cronkite et al. (1984) | 245 | Married2  | 45.1 | 12.0 | 8.2 | 82.0 | 18.7 | A | Quantity |
| Desrosiers et al. (2016) | 197 | Postpartum couples1 | 20.0 | 6.0 | 15.5 | 11.1 | NR | A | Frequency |
| Hellmuth et al. (2013) | 122 | Postpartum couples1 | >18.0a | 7.0 | 32.2 | 79.0 | 2.9 | A | AUDIT |
| Kehayes et al. (2017) | 108 | CommunityUniversity students1 | 22.6 | 1.0 | 46.8 | 83.5 | 2.3 | A | QuantityFrequencyRAPI–7Dc |
| Keller et al. (2009) | 98 | Married2  | 39.0 | 24.0 | 38 | 67.0 | 13.0b | A | MAST ADS |
| Leonard & Eiden (1999) | 491 | Married2  | 23.4 | 12.0 | 23 | 75.0 | 1.0 | A | QuantityBinge INTX |
| Leonard & Mudar (2004) | 468 | Married2  | 27.9 | 12.0 | 26 | 62.0 | 1.0 | A | QuantityBinge INTX |
| Mahedy et al. (2017) | 5,535 | Postpartum couples1 | NR | 96.0 | 60.3 | NR | NR | A | QuantityBinge  |
| Mushquash et al. (2013) | 208 | University/post-secondary students1 | 21 | 1.0 | 2.9 | 88.9 | 1.8 | A | Binge |
| Otten et al. (2008) | 404 | Married2  | 45 | 24.0 | 6.0 | 100.0 | NR | A | Quantity |
| Rodriguez (2014) | 61 | Married2  | 29.8 | 6.0 | 50.4 | 69.6 | 6.00 | A | QuantityFrequencyRAPIAUDIT |
| Rogers (2002) | 1,182 | Married elderly sample2 | 55.9 | 72.0 | 30.8 | 88.4 | 30.0 | D | Quantity |
| Temple et al. (2008) | 468 | High-risk couples1 | 33.3d | 45.0 | 35.1 | 32.7 | 7.7 | A | Frequency |
| Windle et al. (2014) | 489 | Married2 | 51.4 | 120.0 | 42.0 | 99.0 | 26.07 | A | QFIBinge |

*Note*. Couple age, % Caucasian, and relationship length for the sample at baseline; Attrition by the last wave; Time lag is expressed in months; Relationship length is expressed in years; 1Community/Other sample type and 2Married sample type; **NR** = not reported; ***N*** = total number of couples used for the analyses; **Status** = publication status of the study: **A** = article; **D** = dissertation; **QFI** = quantity-frequency index (Armor & Polich, 1982); **Binge** = binge drinking frequency; **INTX** = frequency of intoxication; **DDHQ** = alcohol problems items of the Drinking and Drug History Questionnaire (Zucker, Fitzgerald, & Noll, 1990); **AUDIT** = Alcohol Use Disorders Identification Test (Saunders, Aasland, Babor, De La Fuente, & Grant, 1993); **RAPI** = Rutgers Alcohol Problem Index (White & Labouvie, 1989; refers to a one year time period); **RAPI-7D** = Rutgers Alcohol Problem Index over the past 7 days; **ADS** = Alcohol Dependence Scale (Skinner & Horn, 1984); **MAST** = Michigan Alcohol Screening Test (Selzer, M. 1971).

aparticipants were all over the age of 18

byears living together

cRAPI-7 day is reported in Lambe et al. (2015), a subsample of Kehayes et al. (2017)

donly one partner’s age is reported

Table 2

*Summary of overall bivariate effect sizes for the relationships between female and male baseline and follow-up alcohol indicators, alcohol use, and alcohol problems*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | *k* | *N* | *r*+ | 95% CI | *QT* | *I*2(%) | Egger’s intercept | 95% CI | *k*TF | “Trim and fill” estimates*r*+ [95% CI] |
| **Alcohol indicators***–***women, T1** |  |  |  |  |  |  |  |  |  |  |
|  Alcohol indicators*–*women, T2 | 17 | 10,382 | .58\*\*\* | [.52; .63] | 196.45\*\*\* | 91.86 | 0.30 | [-2.69; 3.29] | 0 | .58 [.52; .63] |
|  Alcohol indicators*–*men, T1 | 17 | 6,367 | .35\*\*\* | [.29; .42] | 128.96\*\*\* | 87.59 | -2.10 | [-5.70; 1.49] | 0 | .35 [.29; .42] |
|  Alcohol indicators*–*men, T2 | 18 | 5,053 | .29\*\*\* | [.22; .35] | 92.70\*\*\* | 92.70 | -2.46 | [-5.04; 0.13] | 0 | .29 [.22; .35] |
| **Alcohol indicators***–***women, T2** |  |  |  |  |  |  |  |  |  |  |
| Alcohol indicators*–*men, T1 | 18 | 5,053 | .29\*\*\* | [.22; .35] | 88.29\*\*\* | 80.75 | -0.77 | [-3.56; 2.03]] | 0 | .29 [.22; .35] |
|  Alcohol indicators*–*women, T1 | 16 | 4,734 | .37\*\*\* | [.30; .44] | 95.73\*\*\* | 95.73 | -0.50 | [-3.79; 2.80] | 0 | .37 [.30; .44] |
| **Alcohol indicators***–***men, T1** |  |  |  |  |  |  |  |  |  |  |
| Alcohol indicators*–*men, T2 | 16 | 4,847 | .62\*\*\* | [.56; .67] | 133.26\*\*\* | 88.74 | -3.06 | [-6.71; 0.59] | 1 | .60 [.54; .66] |
| **Alcohol use***–***women, T1** |  |  |  |  |  |  |  |  |  |  |
|  Alcohol use*–w*omen, T2 | 15 | 10,213 | .58\*\*\* | [.52; .64] | 192.30\*\*\* | 92.72 | 0.41 | [-3.10; 3.92] | 0 | .58 [.52; .64] |
|  Alcohol use*–*men, T1 | 14 | 5,976 | .38\*\*\* | [.31; .44] | 110.68\*\*\* | 88.26 | -1.34 | [-5.91; 3.23] | 0 | .38 [.31; .44] |
|  Alcohol use*–*men, T2 | 14 | 4,678 | .32\*\*\* | [.28; .38] | 76.83\*\*\* | 83.08 | -1.86 | [-5.50; 1.78] | 0 | .32 [.28; .38] |
| **Alcohol use***–***women, T2** |  |  |  |  |  |  |  |  |  |  |
|  Alcohol use*–*men, T1 | 14 | 4,678 | .31\*\*\* | [.24; .38] | 82.77\*\*\* | 84.29 | -0.06 | [-4.03; 3.91] | 0 | .31 [.24; .38] |
|  Alcohol use*–*men, T2 | 13 | 4,481 | .40\*\*\* | [.32; .47] | 87.74\*\*\* | 86.32 | 0.56 | [-3.83; 5.00] | 0 | .40 [.32; .47] |
| **Alcohol use***–***men, T1**  |  |  |  |  |  |  |  |  |  |  |
| Alcohol use*–*men, T2 | 14 | 4,678 | .61\*\*\* | [.55; .66] | 118.01\*\*\* | 88.98 | -4.34 | [-8.21; -0.47] | 1 | .60 [.53; .65] |
| **Alcohol-related problems***–***women, T1**  |  |  |  |  |  |  |  |  |  |  |
|  Alcohol-related problems*–*women, T2 | 2 | 169 | .57\*\*\* | [.32; .74] | 3.67 | 72.76 | — | — | — | — |
|  Alcohol-related problems*–*men, T1 | 3 | 391 | .21\*\* | [.07; .33] | 3.57 | 43.90 | 2.56 | [-111.38; 116.50] | 0 | .21 [.07; .33] |
|  Alcohol-related problems*–*men, T2 | 4 | 375 | .16\*\* | [.05; .26] | 3.52 | 14.70 | -4.83 | [-20.66; 10.99] | 0 | .16 [.05; .26] |
| **Alcohol-related problems***–***women, T2** |  |  |  |  |  |  |  |  |  |  |
|  Alcohol-related problems*–*men, T1 | 4 | 375 | .19\*\*\* | [.09; .29] | 0.66 | 0.00 | -1.33 | [-9.74; 7.09] | 0 | .19 [.09; .29] |
|  Alcohol-related problems*–*men, T2 | 3 | 253 | .24\*\*\* | [.13; .35] | 1.61 | 0.00 | -5.50 | [-40.44; 29.44] | 0 | .24 [.13; .35] |
| **Alcohol-related problems***–***men, T1**  |  |  |  |  |  |  |  |  |  |  |
| Alcohol-related problems*–*men, T2 | 2 | 169 | .70\*\* | [.23; .90] | 15.25\*\*\* | 93.44 | — | — | — | — |

*Note*. Overall bivariate effects estimates for all available alcohol outcomes, including alcohol use and alcohol-related problems; **Female Alcohol Indicators** = averaged female partner alcohol indicators; **Male Alcohol Indicators** = averaged male partner alcohol indicators; **Female Alcohol Use** = averaged female partner alcohol use; **Male Alcohol Use** = averaged male partner alcohol use; **Female Alcohol problems** = averaged female partner alcohol-related problems; **Male Alcohol problems** = averaged male partner alcohol-related problems; **TI** = averaged baseline; **T2** = averaged follow-up; ***k*** = number of studies; ***N*** = total number of participants in the *k* samples; ***r*+=** observed weighted mean correlation; ***CI*** = confident interval for *r*+; ***QT*** = measure of heterogeneity for *r*+; ***I2*** = percentage of heterogeneity for *r*+; ***k*TF** = number of imputed studies as part of “trim and fill” method for *r*+.

 \**p* < .05; \*\**p* < .01; \*\*\**p* < .001.

Table 3

*Model comparison fit indicies for overall, alcohol use, and alcohol problems data*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Stage/Model | *k* | *N* | *χ2* | *df* | *p* | CFI | TLI | SRMR | RMSEA [95% CI] | ∆χ*2* |
|  Overall  Model 1A | 17 | 10,419 | 0.00 | 0 | — | — | — | — | — | — |
|  **Model 1B** | **17** | **10,419** | **1.24** | **1** | **.265** | **.999** | **.999** | **.011** | **.005 [.000, .027]** | **1.24(1)** |
|  Model 1C  | 17 | 10,419 | 32.52 | 2 | <.001 | .973 | .920 | .069 | .038 [.027, .050] | 32.52\*\*\*(2) |
|  Model 1D  | 17 | 10,419 | 53.57 | 2 | <.001 | .954 | .864 | .082 | .050 [.039, .062] | 53.57\*\*\*(1) |
|  Measures of alcohol use |  |  |  |  |  |  |  |  |  |  |
|  Model 2A | 14 | 10,115 | 0.00 | 0 | — | — | — | — | — | — |
|  **Model 2B** | **14** | **10,115** | **3.02** | **1** | **.082** | **.998** | **.989** | **.018** | **.014 [.000, .034]** | **3.02(1)** |
|  Model 2C  | 14 | 10,115 | 26.46 | 2 | <.001 | .977 | .932 | .065 | .035 [.024, .047] | 24.46\*\*\*(2) |
|  Model 2D  | 14 | 10,115 | 43.90 | 2 | <.001 | .961 | .884 | .081 | .046 [.034, .058] | 43.90\*\*\*(1) |
|  Measures of alcohol-related problems |  |  |  |  |  |  |  |  |  |  |
|  Model 3A | 5 | 473 | 0.00 | 0 | — | — | — | — | — | — |
|  **Model 3B**  | **5** | **473** | **0.73** | **1** | **.705** | **.999** | **.999** | **.013** | **.000 [.000, .000]** | **0.73(1)** |
|  Model 3C  | 5 | 473 | 11.71 | 2 | .003 | .933 | .800 | .108 | .101 [.051, .161] | 11.71\*\*(2) |
|  Model 3D  | 5 | 473 | 16.81 | 2 | <.001 | .898 | .695 | .092 | .125 [.075, .184] | 16.81\*\*\*(1) |

*Note*. ***p*** = p value of *x2*. Overall refers to all alcohol indicators (AI); **Model 1A** = no degrees of freedom; **Model 1B** = correlation between FAI-T2 and MAI-T2 constrained to 0; **Model 1C** = correlation between FAI-T2 and MAI-T2 constrained to 0 and path from FAI-T1 to MAI-T2 constrained to equal path from MAI-T1 to FAI-T2; **Model 1D** = correlation between FAI-T2 and MAI-T2 constrained to 0 and path from FAI-T1 to FAI-T2 constrained to equal path from MAI-T1 to MAI-T2. The model selected is in bold. **Model 2A** = no degrees of freedom; **Model 2B** = correlation between FAU-T2 and MAU-T2 constrained to 0; **Model 2C** = correlation between FAU-T2 and MAU-T2 constrained to 0 and path from FAU-T1 to MAU-T2 constrained to equal path from MAU-T1 to FAU-T2; **Model 2D** = correlation between FAU-T2 and MAU-T2 constrained to 0 and path from FAU-T1 to FAU-T2 constrained to equal path from MAU-T1 to MAU-T2. The model selected is in bold. **Model 3A** = no degrees of freedom; **Model 3B** = correlation between FARP-T2 and MARP-T2 constrained to 0; **Model 3C** = correlation between FARP-T2 and MARP-T2 constrained to 0 and path from FARP-T1 to MARP-T2 constrained to equal path from MARP-T1 to FARP-T2; **Model 3D** = correlation between FARP-T2 and MARP-T2 constrained to 0 and path from FARP-T1 to FARP-T2 constrained to equal path from MARP-T1 to MARP-T2. The model selected is in bold.

1. Our meta-analysis was pre-registered with PROSPERO’s International prospective register of systematic reviews (CRD42018089699). [↑](#footnote-ref-1)
2. Groupings are not mutually exclusive: two studies examined both alcohol use and alcohol-related problems. [↑](#footnote-ref-2)