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# Masculine Ideology, Sexual Communication, and Sexual Self-Efficacy Among Parenting Adolescent Couples

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### **Abstract**

This study examined the relationship between traditional masculine role norms (status, toughness, anti-femininity) and psychosocial mechanisms of sexual risk (sexual communication, sexual selfefficacy) among young, low-income, and minority parenting couples. Between 2007 and 2011, 296 pregnant adolescent females and their male partners were recruited from urban obstetrics clinics in Connecticut. Data regarding participants' beliefs in masculine role norms, frequency of general sex communication and sexual risk communication, and sexual self-efficacy were collected via computer-assisted self-interviews. Generalized estimating equation (GEE) models were used to test for actor effects (whether a person's masculine role norms at baseline influence the person's own psychosocial variables at 6-month follow-up) and partner effects (whether a partner's masculine role norms at baseline influence an actor's psychosocial variables at 6-month follow-up). Results revealed that higher actor status norms were significantly associated with more sexual self-efficacy, higher actor toughness norms were associated with less sexual selfefficacy, and higher actor anti-femininity norms were significantly associated with less general sex communication, sexual risk communication, and sexual self-efficacy. No partner effects were found. These results indicate a need for redefining masculine role norms through family centered approaches in pregnant or parenting adolescent couples to increase sexual communication and sexual self-efficacy. Further research is needed to understand partner effects in the context of a relationship and on subsequent sexual risk behavior.

#### **Keywords**

Masculinity; Sexual risk; Sexual communication; Sexual self-efficacy; Adolescent parents

Compliance with Ethical Standards

Conflict of Interest: The authors declare that they have no conflict of interest.

Research Involving Human Participants: All procedures were approved by the Yale University Human Investigation Committee and by institutional review boards at study clinics.

Informed Consent: A research staff member obtained written informed consent at the time of the first interview.

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## Introduction

Although first conceived of as a biologically based personality trait, recent conceptualizations have defined masculinity as a dynamic social and cultural construction that dictates the standards by which men are expected to behave (Connell & Messerschmidt, 2005; Pleck, Sonenstein & Ku, 1993; Terman & Miles, 1936). Men internalize and perpetuate masculine role norms, which are then reinforced by interpersonal and institutional experiences. Three distinct beliefs drive traditional masculine norms— status, toughness, and anti-femininity (Thompson & Pleck, 1986). Status norms hold that men must acquire skills to achieve status and the respect of others. Toughness norms hold that men should be mentally, emotionally, and physically tough and self-reliant. Finally, anti-femininity norms hold that men should avoid stereotypically feminine activities and occupations. To varying degrees, men both benefit from and are harmed by these traditional views of masculinity (Mankowski & Maton, 2010). Some qualities stereotypically associated with traditional masculinity are considered beneficial, while others have been linked to negative health outcomes (Levant, 2008; Mankowski & Maton, 2010).

Research indicates that traditional masculine norms may act as a barrier to men's help-seeking behavior and thus may negatively influence men's health status (Mahalik, Good & Englar-Carlson, 2003). Studies have also demonstrated varied relationships between traditional masculine norms and risky sexual behaviors, linking adherence to status norms to less risky sexual behaviors while adherence to toughness and anti-femininity norms were linked to more negative attitudes toward healthy behaviors such as condom use (Noar & Morokoff, 2002; Shearer, Hosterman, Gillen & Lefkowitz, 2005). Given the influence masculinity has on sexual risk, it is plausible that traditional masculine ideology may impact psychosocial mechanisms of sexual risk.

Two important psychosocial mechanisms of sexual risk are sexual communication and sexual self-efficacy. Sexual communication involves both general sex-related communication between partners about what she or he likes sexually, and sexual risk communication between partners regarding condom use, past sexual partners, sexually transmitted disease history, and other risk-related communication. Perceptions of male role norms are critical factors that could influence each partner's comfort and willingness to discuss sexual preferences and sexual risks with one another. Previous research guided by script theory suggests that traditional gender roles are incorporated into sexual scripts that delineate the content, sequence, or boundaries of appropriate behavior within heterosexual interactions (Metts & Spitzberg, 1996). This research suggests that men are more assertive in sexual situations, directing communication about sexual activity, while women are more passive and less likely to express desires or ask questions about a partner's sexual history. However, males may also avoid this type of communication, as discussing fears or feelings may be perceived as weak or feminine (Fischer, 2000; Hall & Applewhite, 2013). The other psychosocial mechanism of sexual risk, sexual self-efficacy, is an individual's confidence in his or her ability to suggest and use condoms with their partner. Perceptions of male role norms could influence sexual self-efficacy given that partners' confidence in suggesting and using condoms could vary based on their perception of what is acceptable according to traditional gender roles or scripts. For example, research suggests that gender-based power

imbalances, related to views of masculine role norms, directly impact women's ability to negotiate condom use with their partners (Pulerwitz, Amaro, De Jong, Gortmaker & Rudd, 2002). In keeping with the male sexual script emphasizing assertiveness and authority, males with more traditional status norms have reported more positive condom attitudes and fewer perceived barriers to using condoms (Noar & Morokoff, 2002; Shearer et al., 2005). However, sexual self-efficacy can be hampered by the fact that both males and females may fear the implications of suggesting condoms to a partner, as this may be interpreted as a lack of trust or an indication of promiscuity, particularly among adolescents (Niccolai, Ethier, Kershaw, Lewis & Ickovics, 2003). Both sexual risk communication and sexual self-efficacy are important predictors of protective sexual behaviors such as condom use in adolescents (Basen-Engquist & Parcel, 1992; Catania et al., 1989; Sales et al., 2012; Whitaker, Miller, May & Levin, 1999). General sex communication may also positively influence safer sexual practices, as it provides an opportunity for additional dialog regarding partners' sexual experiences. Thus, it is essential to understand what drives these psychosocial mechanisms in adolescent relationships and how traditional masculine role norms may be involved in adolescents' decisions to communicate about sex or their perception of their ability to use condoms with sexual partners.

Young, low-income, and minority parents or expecting parents experience a number of compounding disadvantages often resulting in risky sexual behavior and poorer sexual health outcomes. First of all, adolescents and young adults have the highest rates of sexually transmitted infections (STIs) compared to all other age groups, with black and Hispanic adolescents accounting for a disproportionately high percentage of infections (Centers for Disease Control and Prevention, 2014). Pregnant and postpartum adolescents have a higher risk of sexually transmitted disease and are less likely to use condoms than their nonpregnant counterparts (Ickovics, Niccolai, Lewis, Kershaw & Ethier, 2003; Niccolai et al., 2003). Adolescent pregnancy is more common in low-income and minority populations and research shows it is particularly common for such risks to be perpetuated from generation to generation within these vulnerable groups (Kershaw et al., 2014; Martin, Hamilton, Osterman, Curtin & Matthews, 2013; Meade, Kershaw & Ickovics, 2008; Penman-Aguilar, Carter, Snead & Kourtis, 2013; Sipsma, Biello, Cole-Lewis & Kershaw, 2010). Therefore, it is important to study these vulnerable populations to understand the psychosocial mechanisms at play leading to heightened sexual risk. We focused on minority and low-income couples for this reason, which sets our study apart in the literature as most previous studies examining couples have focused on those in therapeutic settings of white, middle-class backgrounds (Christensen, Russell, Miller & Peterson, 1998).

Much of the available literature primarily focuses on male views of masculinity related to male social and behavioral health outcomes. To our knowledge, few studies have looked at how both male and female ideas of masculinity norms impact psychosocial mechanisms of sexual risk. The present study aimed to determine how traditional views of masculinity of both males and females influence psychosocial variables in romantic relationships, both through individual and partner level effects (how an individual's own masculinity norms may influence their behavior and how a partner's masculinity norms may influence an individual's behavior). Specifically, this study assessed how traditional views of masculinity influence general sex communication, sexual risk communication, and

sexual self-efficacy for both males and females in romantic relationships. We hypothesized that male participants with more traditional beliefs in toughness (men should be mentally, emotionally, and physically tough and self-reliant) and anti-femininity norms (men should avoid stereotypically feminine activities) and female participants with more traditional beliefs in all masculine role norms would report less sexual communication. However, we hypothesized that males with more traditional beliefs in status norms (men must acquire skills to achieve status and the respect of others) would report more sexual communication, in line with the male sexual script emphasizing assertiveness and authority. In terms of sexual self-efficacy, we hypothesized that female participants with more traditional beliefs in masculine role norms and male participants with traditional beliefs specifically in toughness and anti-femininity norms would report lower sexual self-efficacy. Again expecting contrasting effects for status norms, we hypothesized that males with more traditional beliefs in status norms would report higher sexual self-efficacy. In terms of both sexual communication and sexual self-efficacy, we hypothesized that similar effects would manifest in partners, that is, individuals with partners who report more traditional beliefs in masculine role norms would report less sexual communication and less sexual self-efficacy, with the inverse relationship occurring for males with partners who report more traditional beliefs in status norms.

#### **Methods**

## **Study Sample and Procedures**

Data for this study come from a longitudinal study of pregnant and postpartum young females and their partners. Between July 2007 and February 2011, 296 pregnant adolescents and their male partners (592 total participants) were recruited from obstetrics and gynecology clinics and from an ultrasound clinic in four university-affiliated hospitals in Connecticut. Potential participants were screened and, if eligible, research staff explained the study in detail. If the baby's father was not present at the time of screening, research staff asked for permission to contact the father to explain the study.

Inclusion criteria included (a) a female partner in the second or third trimester of pregnancy at time of baseline interview; (b) females: age 14–21 years; males: age at least 14 years, at time of the interview; (c) both members of the couple report being in a romantic relationship with each other; (d) both report being the biological parents of the unborn baby; (e) both agree to participate in the study; and (f) both are able to speak English or Spanish. Because this was a longitudinal study, we used an initial run-in period as part of eligibility criteria where participants were deemed ineligible if they could not be recontacted after screening and before their estimated due date.

The couples separately completed structured interviews via audio computer-assisted self-interviews. Participation was voluntary and confidential. All procedures were approved by the Yale University Human Investigation Committee and by institutional review boards at study clinics. Participants were reimbursed \$25 each for each assessment.

Of 413 eligible couples, 296 (72.2%) couples enrolled in the study. Couples who agreed to participate were of greater gestational age (p = .03). Participation did not vary by any other prescreened demographic characteristic (all p > .05).

Participants were interviewed in their third trimester of pregnancy (M= 29 weeks gestation) and at 6 months postpartum. Participants were followed and assessed regardless of relationship status and whether their partner dropped out of the study. The retention rate at the 6-month postpartum assessment was 73% (434/592). Therefore, our final sample size for these analyses was 434. We compared the 434 included in the analyses with the 158 that were missing. Results showed that those included in the analyses (n = 434) did not differ from those not included in the analyses (n = 158) on any demographics or key study variables with the exception of race (p<.05). Results showed that individuals included in the analyses were more likely to be Hispanic and were less likely to be white than those not included in the analyses.

#### **Measures**

Male Role Norms—Male role norms were assessed during pregnancy at 24 or more weeks gestation by respondents' agreement or disagreement with 25 belief statements about men's expected behavior modified from the Masculine Role Norm Scale (MRNS) developed by Thompson and Pleck (1986). The construct validity of the MRNS is supported by evidence that scores were significantly positively related to both men's and women's attitudes toward men and significantly negatively related to individuals' attitudes toward gender egalitarianism (Thompson & Pleck, 1995). Each of the statements was scored on a 7-point Likert scale ranging from 1 "Strongly Disagree" to 7 "Strongly Agree," with higher values corresponding to more traditional views of masculinity. Response values for each statement were summed to create a total overall MRNS score and total scores for three distinct subscales. First, the 11-item Status Norm Scale included survey items measuring the extent to which participants believe that men should acquire skills that warrant respect and admiration (e.g., "Success in his work has to be man's central goal this life"). Second, the 8-item Toughness Norm Scale included survey items measuring the extent to which participants believe that men should become mentally and physically tough (e.g., "When a man is feeling a little pain he should try not to let it show very much"). Third, the 6-item, Anti-Femininity Norm Scale included survey items measuring the extent to which participants believe that men should avoid anything stereotypically feminine (e.g., "If I heard about a man who was a hairdresser and a gourmet cook, I might wonder how masculine he was"). Results showed good internal consistency for the Status Norm Scale for females ( $\alpha = .88$ ) and males ( $\alpha = .90$ ), the Toughness Norm Scale for females ( $\alpha = .75$ ) and males ( $\alpha = .83$ ), and the Anti-Femininity Norm Scale for females ( $\alpha = .70$ ) and males ( $\alpha = .70$ ) .74). Subscale reliability was consistent with previous studies utilizing the MRNS (Condon, Corkindale, Russell & Quinlivan, 2006; Gallagher & Parrott, 2011).

**Sexual Communication**—Sexual communication was assessed at 6 months postpartum. The amount and content of participants' sex-related communication with sexual partners was evaluated using a 7-item scale devised by the project team. Participants indicated the frequency of communication with their partners about specific topics on a 5-point scale: 1

"Never," 2 "Rarely," 3 "Sometimes," 4 "Often," and 5 "Very Often." The items were divided into two subscales: general sex communication and sexual risk communication. The general sex communication subscale included the items, "I tell my partners what I like sexually" and "I ask my partners what they like sexually." The sexual risk communication subscale included the following five items: "I talk to my partners about condoms," I" ask my partners about their past sexual partners," "I ask my partners about their STD history," "I ask my partners whether they have been tested for HIV," and "I talk to my partners about AIDS concerns." Results showed good internal consistency for general sex communication for females ( $\alpha = .93$ ) and males ( $\alpha = .91$ ) and for sexual risk communication for females ( $\alpha = .87$ ).

**Sexual Self-Efficacy**—Sexual self-efficacy of participants was evaluated at 6 months postpartum using a 17-item, adapted version of the Condom Use Self-Efficacy Scale (CUSES) developed by Brafford and Beck (1991). Statements addressed participants' ability to put a condom on themselves or a partner, the degree to which the partner would disapprove, ability to persuade a partner to use a condom, and ability to use condoms when under the influence of drugs or alcohol. Participants indicated how much they agreed or disagreed with each statement on a 5-point Likert scale, ranging from 1 "Strongly Disagree" to 5 "Strongly Agree." Examples of survey items include "I feel confident in my ability to put a condom on myself, or my partner" and "I feel confident that I could use a condom successfully." Results showed good internal consistency for sexual self-efficacy for females ( $\alpha$  = .93) and males ( $\alpha$  = .92), consistent with previous studies using the CUSES (Brafford & Beck, 1991; Klonoff et al., 2014). The CUSES has been used extensively in existing literature and the validity of the scale has been demonstrated by its correlation with other self-report scales such as the Attitudes Toward Condoms scale and the Contraceptive Self-Efficacy scale (Brown, 1984; Levinson, 1986).

**Covariates**—All covariates were assessed at baseline, with the exception of the item assessing whether the participant was still in a relationship with the father or mother of the baby at 6 months postpartum. Potential covariates included participants' age in years, income, race (black, Hispanic, white, or other), years of education, length of relationship with the father or mother of the baby in months, and relationship status with father or mother of the baby at 6 months postpartum.

#### **Data Analysis**

Differences between males and females on demographic and relationship variables were assessed using a series of paired t-tests for continuous variables and McNemar's tests for categorical variables. Unadjusted and adjusted multivariate models were then created using generalized estimating equations (GEE)—a method similar to multilevel modeling as it corrects for clustered and correlated data. GEE models were used to examine effects according to the Actor–Partner Interdependence Model (Kenny, Kashy & Cook, 2006). The models tested for actor effects —whether a person's masculinity norms at baseline influence the person's own psychosocial variables at follow-up (e.g., female's masculinity norms relate to her own self-efficacy). The models also test for partner effects—whether a partner's masculinity norms at baseline

influence an actor's psychosocial variables at follow-up (e.g., male partner's masculinity norms relate to his female partner's self-efficacy; female partner's masculinity norms relate to her male partner's self-efficacy). To assess for moderation of these relationships by gender, a set of models were created with interaction terms for each of the three masculinity scales with gender. Simple effects were then conducted to assess the nature of any statistically significant difference between males and females. The actor and partner effects presented in the model are unstandardized regression coefficients (and their standard errors) because the standardized coefficients are not accurate when using the actor–partner approach (Kenny et al., 2006). All analyses were conducted using SAS 9.4 (SAS Institute Inc., Cary, NC).

# Results

Table 1 describes the characteristics of the sample by gender. The average age for females was 18.7 (SD = 1.6) years and 21.3 (SD = 4.1) years for males (p < .001). The average annual personal income for females was \$5835 (SD = \$7448) and \$10,869 (SD = \$11,858) for males (p < .001). The majority of males and females were black (48.7% and 39.5%, respectively) or Hispanic (36.5% and 39.5%, respectively), with 10.5% of males and 16.9% of females identifying as white, and the remainder identifying as some other race (p < .001). The average number of years of education for females and males was 11.8 (SD = 1.8) years and 11.8 (SD = 1.9) years, respectively. The average length of the participants' relationship with the father or mother of the baby was 26.9 (SD = 19.8) months and the majority (84.2%) of the study participants were still in romantic relationships with the father or mother of the baby at 6 months postpartum.

Table 2 shows the results of the unadjusted models determining the effects of masculinity norms on general sex communication, sexual risk communication, and sexual self-efficacy. Higher actor anti-femininity norms were associated with less actor general sex communication (p = .022) and less actor sexual risk communication (p = .005), while partner anti-femininity norms were related to less actor sexual risk communication (p = .030). That is, participants who believe that men should avoid stereotypically feminine activities and occupations reported both less general sex communication and sexual risk communication at the 6-month follow-up; however, individuals with partners who adhere to these same beliefs only reported less sexual risk communication at followup. Participants with higher status norms, who strongly believe that men must acquire skills to achieve status and the respect of others, reported more sexual self-efficacy at follow-up (p = .022). The opposite effect was shown for participants with higher toughness norms, who believe that men should be mentally, emotionally, and physically tough and self-reliant, and participants with higher anti-femininity norms, as both reported less sexual self-efficacy (p = .001 and p < .001, respectively).

Table 3 shows the results of the final adjusted models determining the effects of masculinity norms on general sex communication, sexual risk communication, and sexual self-efficacy of individuals in a relationship after controlling for gender, age, income, years of education, length of relationship with father/mother of baby, and relationship status with father/mother of baby at 6 months postpartum. All effects from the unadjusted

models remained significant, with the exception of the association between partner antifemininity norms and actor sexual risk communication. Higher anti-femininity norms for actors were significantly associated with less actor general sex communication (p = .009), less sexual risk communication (p = .002), and less sexual self-efficacy (p = .016). Thus, participants who strongly believe that men should avoid stereotypically feminine activities and occupations reported less sex-related communication and less sexual self-efficacy. Those with higher status norms who believe that males should earn respect and responsibility, reported more sexual self-efficacy (p < .001), while participants with higher toughness norms who believe that males should be tough and self-reliant, reported less sexual self-efficacy (p = .004). No partner effects were found after adjustment for confounders.

Further GEE analyses were conducted to determine whether masculinity effects varied by gender. The only significant interaction was between actor toughness norms and gender on sexual self-efficacy (p = .021). Simple effects were conducted to identify the nature of the difference in this relationship by gender. Simple effects showed that higher toughness norms related to less sexual self-efficacy for females (B = -.025, SE = .007, p < .001), but not for males (B = -.009, SE = .007, p = .190).

#### Discussion

Results of this study highlight the influence male role norms have on psychosocial mechanisms of sexual risk among adolescent females and males in romantic relationships. As anticipated based on previous literature, certain male role norms were positively associated with the psychosocial variables of interest while others were negatively associated with these variables. These findings offer unique insights into the relationships of young, low-income, and minority parents, with significant implications for intervention and further study.

#### **Status**

First, results showed that higher actor status norms were associated with more actor sexual self-efficacy. If an actor believes that men should strive for success and exude confidence, it is reasonable that a male actor would report feeling confident in his ability to use or persuade his partner to use condoms because he should be able to succeed in his actions and his partner should respect his choice to use condoms (Thompson & Pleck, 1986). Previous interventions have capitalized on this by associating condom use with masculinity, emphasizing men's responsibility (Dilorio, McCarty, Resnicow, Lehr & Denzmore, 2007). One might assume that higher status norms for a female actor would have the opposite effect, expecting that the male partner should be responsible for remembering or suggesting to use a condom, but this was not the case. This may indicate that the female actors expect females to achieve success and respect as well, leading them to have more sexual self-efficacy. The beliefs that men and women should strive for success and respect are not mutually exclusive.

## **Toughness**

Higher actor toughness norms were associated with less actor sexual self-efficacy for females, but not for males. Female actors with more traditional views of toughness norms might feel less confident in their ability to use or persuade her partner to use condoms because she may fear backlash from her partner or may feel that is it not her place to tell her partner what to do. This is particularly salient for pregnant couples as condom use is not needed to prevent pregnancy and the relationship may be perceived as monogamous, so negotiating or demanding condom use may be interpreted as a lack of trust and may incite anger (Niccolai et al., 2003). This interpretation may apply to adolescent couples postpartum as well, as suggesting condom use may raise questions about relationship monogamy and provoke a negative response from a male partner if he feels disrespected by the implications of this suggestion.

#### **Anti-Femininity**

Finally, higher actor anti-femininity norms were associated with less general sex communication, sexual risk communication, and sexual self-efficacy. If a male actor believes that men should avoid anything stereotypically feminine, it is possible that he would avoid engaging in any sexual communication because communication about feelings or fears could be viewed as a feminine attribute (Fischer, 2000; Hall & Applewhite, 2013). Along a similar vein, female actors with high anti-femininity norms may feel less empowered to communicate sexual concerns to male partners because they do not believe their partner will be open to having such a discussion because of the belief that expressing sexual concerns is an inherently feminine action. A similar mechanism may be at work in the relationship between anti-femininity norms and sexual self-efficacy. A female adolescent may forgo condom negotiation or demands, regardless of her personal beliefs, if she expects that her male partner will react negatively or simply not be interested in having this discussion (Hogben et al., 2006; Weinman, Small, Buzi & Smith, 2008).

#### **Actor and Partner Effects**

Interestingly, only actor effects were evident after controlling for confounders. Associations between masculine norms and psychosocial mechanisms of sexual risk may be more salient at the individual level than the couple level, although previous studies have demonstrated partner effects of this nature. For example, higher status norms in female partners have been linked to more sexual self-efficacy in male actors, while higher status norms in male partners have been linked to less sexual self-efficacy in female actors (Vincent et al., 2016). Further research is needed to better understand how partners' masculinity norms may influence psychosocial variables in the context of a relationship and on subsequent sexual risk behavior.

#### **Strengths and Limitations**

One strength of this study is the analysis of couple-level data in addition to individual-level data. Couple-level data allowed us to take into account the interdependent nature of the variables of interest and use the Actor–Partner Interdependence Model to examine the impact of the male role norms on both actor and partner psychosocial variables.

Additionally, this allowed for us to determine whether any associations varied by gender. Our focus on expectant adolescent couples and parents in romantic relationships is both a strength and a limitation. Examining masculine ideology in this vulnerable population adds to the literature, as most other studies have collected relationship data from adult couples of white, middle-class backgrounds (Christensen et al., 1998). However, these results may not be generalizable to adolescent males and females who are not pregnant or new parents. Furthermore, although we examined the influence of masculinity norms during pregnancy on subsequent psychosocial variables at 6 months postpartum, causality cannot be determined and we need to take these data as evidence of associations only. Additionally, the data were collected by self-report and could therefore be subject to reliability and validity concerns. To limit the possibility of social desirability bias, audio computer-assisted, self-interviews were conducted.

## **Research and Community Implications**

Evidence from this study indicates a clear need to address male role norm beliefs in both male and female partners of a romantic relationship when promoting messages about the importance of sexual communication and increasing sexual self-efficacy. Expectations of masculinity held by both male and female partners must be rede-fined—it is not enough to change males' perceptions of themselves if females still expect and applaud certain characteristics of traditional masculinity. Interventions that directly deal with gender norms, particularly among young couples, may lessen the negative influence of traditional masculinity norms on psychosocial mechanisms of sexual risk and ultimately increase protective sexual behaviors (Basen-Engquist & Parcel, 1992; Catania et al., 1989; Sales et al., 2012; Whitaker et al., 1999). Because pregnancy is a particularly vulnerable time for adolescents and young adults, this is a critical time for intervention. A family centered approach to reframe masculinity and gender roles to ultimately improve psychosocial mechanisms of sexual risk is needed. Prenatal education classes held at community health centers or obstetrics and gynecology clinics may provide the opportunity to engage in discussion with young couples about gender roles within relationships and reframe what it means to "be a man" in the context of a relationship and starting a family. It may also be possible to engage counselors or social workers working with young parents or expecting parents to discuss these subjects. Given the positive impact of status norms on psychosocial variables, placing emphasis on status as a concept applying to both males and females may encourage young parents to take personal responsibility when it comes to discussing sexual concerns and condom use. Furthermore, by working with both men and women, the onus of redefining gender roles in the relationship is placed on the couple and not disproportionately positioned on one gender. Redefining traditional masculine norms should be a broader societal goal tackled by family focused interventions along with macro-level interventions to have the greatest impact on psychosocial mechanisms of sexual risk, among other variables.

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Table 1

Characteristics of the study sample, by gender

	Gender	der	
Characteristic	Female $(N = 296)$ Male $(N = 296)$	Male $(N = 296)$	4
Age, years	18.7 ± 1.6	21.3 ± 4.1	<.001
Income	$5835 \pm 7448$	$10,869 \pm 11,858$	<.001
Race			
Black	117 (39.5)	144 (48.7)	<.001
Hispanic	117 (39.5)	108 (36.5)	
White	50 (16.9)	31 (10.5)	
Other	12 (4.1)	13 (4.4)	
Education, years	$11.8\pm1.8$	$11.8\pm1.9$	.456
Length of relationship with father/mother of baby, months	$26.6 \pm 19.5$	$27.2 \pm 20.0$	.070
Currently in relationship with father/mother of baby $^{b}$			
Yes	190 (83.3)	175 (85.0)	.267
No	38 (16.7)	31 (15.0)	

<sup>&</sup>lt;sup>a</sup>Table values are mean  $\pm SD$  for continuous variables and n (%) for categorical variables; All measurements taken at T] (baseline, 24+ weeks gestation); N= 592.

 $b_{\rm Measurement}$  taken at 72 (6 months postpartum),  $N\!=\!434$  .

Table 2

Unadjusted effects of masculinity norms on sexual communication and sexual self-efficacy, by actor/partner<sup>a</sup>

	General sex communication	х сошш	mication	Sexual risk communication	k comm	mication	Sexua	Sexual self-efficacy	ficacy
	В	SE	d	В	SE	d	В	SE	d
Status, actor	900.	.005	.238	005	.005	305	900.	.003	.022
Status, partner	000.	.005	296.	.007	.005	.157	000.	.003	886.
Toughness, actor	001	800.	.874	007	.007	.314	014	.004	.001
Toughness, partner	009	.007	.221	.010	.007	.140	.002	.004	.612
Anti-femininity, actor	023	.010	.022	026	600.	.005	022	.005	<.001
Anti-femininity, partner	.001	010.	688.	.018	800.	.030	.007	.005	.168

 $<sup>^{</sup>a}$ Bold values indicate significance, p < .05.

Table 3

Adjusted effects of masculinity norms on sexual communication and sexual self-efficacy, by actor/partner ab

	General sex communication	х сошш	mication	Sexual risk communication	k commu	mication	Sexua	Sexual self-efficacy	ficacy
	В	SE	d	В	SE	d	В	SE	d
Status, actor	900.	900.	309	900:-	500:	.227	.012	.003	<.001
Status, partner	.005	900.	.408	.004	900.	.510	.001	.003	.870
Toughness, actor	.001	.010	306.	.007	600.	.426	016	900.	.00
Toughness, partner	016	.010	.112	005	600.	589	005	.005	.326
Anti-femininity, actor	030	.012	600.	032	.011	.002	016	.007	.016
Anti-femininity, partner	800.	.011	.486	.011	.010	.239	900.	.005	.228

a Covariates included in the model are gender, age, income, race, years of education, length of relationship with father/mother of baby, and relationship status with father/mother of baby at 6 months postpartum.

 $b \\ \text{Bold values indicate significance, } p < .05.$