Weight, Mental Health, Income and Marital Satisfaction: Evidence from the National Longitudinal Survey of Youth

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Abstract

Using a nationally representative sample of US married female respondents from the National Longitudinal Survey of Youth (1979), our study examined the degree to which wives’ body weight is related to marital satisfaction, as well as, the possibility that depression symptoms mediate this relationship. First, we found an inverse relationship between body weight and marital satisfaction that was independent of physical health limitations, depressive symptoms, length of marriage, number of children and ethnicity. Second, we considered the role of income in marital satisfaction. The addition of income rendered the association between body weight and marital satisfaction null suggesting that income, not body weight, is the most important factor in predicting marital satisfaction.

Keywords: BMI; Depression; Happiness; Health; Income; Marital satisfaction; Mental health; NLSY; Obesity; Weight

Excess body weight is well-recognized as a major health issue around the world. Those with excess body weight do not usually live as long as those with a healthy body weight. Disease orientation in research often directs researchers to focus on the warning signs for heart disease, type 2 diabetes, high blood pressure, high cholesterol levels, stroke, liver and gallbladder disease, sleep apnea and respiratory problems, arthritis, abnormal menstrual periods and infertility in women, and certain cancers. On the other hand, the influence of excess body weight on marital satisfaction, mental health, and risk of depression, appearance, attraction, and relationship receive only scant focus in scholarly work, but see, [1-9]. Similarly, while referencing the role of economic factors, scholarly work often do not include economic models that would show the role that income might play in marital satisfaction [1-3]. The association of mental health, depression, and appearance with satisfaction provides a gateway for exploring the psychosocial association between body weight and marital satisfaction. In addition to psychosocial predictors of marital satisfaction, controlling for economic and sociodemographic factors allows for shedding light on important drivers of marital satisfaction for young women in the United States.

Using a nationally representative sample of US married female respondents from the [10], aged 37-45 in 2002, our study examines the degrees to which wives’ body weight is related to marital satisfaction as well as the possibility that depression symptoms and income mediate the relation between body weight and marital satisfaction.

While economic theory links income and satisfaction (utility), social norms provide a conceptual model for understanding the link between body weight and marital satisfaction. This model emphasizes the high reward for conformity to societal ideals, such as thinness, which are often widely internalized by members of a society [11-14]. Because the social norm is for women to be thin in American society, overweight women are stigmatized [11,12,15-17]. Because women commonly internalize society’s expectations, those who deviate from these standards can be expected to experience lower personal satisfaction and self-esteem, and even depression, because they have personally violated the norm [18,19]. Depression in turn negatively influences individual’s marital satisfaction [18,20,21]. In sum, social norms theory suggests that those who deviate from society's expectations by having higher body weight will experience higher levels of depression and consequently lower levels of marital satisfaction [18].

Body Weight and Marriage

Recent longitudinal [7,8] and cross-sectional [20-22] studies have described the association between body weight, marital status, and health status. Being married is associated with significant weight gain, whereas, being divorced is associated with significant weight loss [8,20]. Married people weigh more than the never married and have the highest self-reported health status, followed by widowed and then single people, with separated people having the worst health status [21,23,24]. Married women also tend to perceive themselves as overweight and are more likely to want to lose weight than women who are not married [22]. Additionally, recent research has found an interplay between hostile marital behaviors, mood disorders and individual metabolic responses [6] indicating that body weight is not an isolated experience in couples. Moreover, Meltzer, et al., [7] found that it was the comparison of wives' body mass index with husbands’ that was linked to marital satisfaction. These findings suggest that there is something about marriage that influences one’s body weight [4,5,25,26], yet few studies have investigated factors within a marriage that could influence body weight.

While focusing on marital dissolution or marital status, researchers often examine the impact of either body weight or physical health. This leaves a gap in research for the potential association between body weight and the quality of the marital
relationship. The present study adds to the literature in an important way. This study examines the link between body weight and marital satisfaction while taking into account the effects of other factors (e.g., income) known to be related to marital satisfaction. Additionally, our study investigates the association between body weight and marital satisfaction using depression as a mediator and a potential pathway from body weight to marital satisfaction.

Economics and Sociodemographics of Marital Satisfaction

Economics points to income as the main driver of marital satisfaction

Psychosocial factors are not the only competing predictors of marital satisfaction. Economic approaches to understanding marital satisfaction (utility, \( U \)) postulates that a rational individual maximize her utility subject to constraints she faces. For example, a female respondent with a depression threshold level \( D \), maximizes her utility subject to constraints she faces. For example, a female respondent with a depression threshold level \( D \), maximizes her utility subject to constraints she faces. In particular, let's assume that body weight \( W \) decreases if she consumes \( C_w \). Also assume that a female respondent with an income level \( I \) faces stress \( S \), and prices \( P \) for \( C \) and \( P_w \) for \( C_w \). Then maximization of \( U = U(C, W(C_w, S), S) \) Subject to I = PC + P_w C_w , assuming \( \partial U/\partial C>0, \partial U/\partial C_w>0, \partial U/\partial W<0, \partial U/\partial S<0, \partial U/\partial C_w<0, \partial U/\partial C_w<0, \partial U/\partial S>0, \) yields consumption levels that are increasing functions of income, i.e., \( \partial C/\partial I>0 \) and \( \partial C_w/\partial I>0 \). Therefore, we may note that, while higher weight reduces female respondents utility or marital satisfaction \( \partial U/\partial W<0 \), her utility \( U=U(C(I), W(C(I), I), S) \) still remains as a rising function of income; thus, implying that income is the most crucial determinant of marital satisfaction.

Extant literature indicates that higher income individuals are less likely to be obese than lower income individuals [27-30]. Lower income individuals are less able to adhere to societal norms of being thin based on the notion that one's ability to control time, food quality, physical activity level, and stress levels are differentially associated with income [31-33]. For example, an individual earning $35,000 has less time and money than an individual earning $60,000 to maintain a normal body weight and a healthy relationship. Since income can influence both body weight and marital satisfaction differently depending on the level of income, we are hypothesizing that income will moderate the association between body weight and marital satisfaction.

Happily married people have fewer health complaints

There is evidence that physical health and marital satisfaction have a reciprocal effect on one another [34-35]. Married couples report being happier and in better health than individuals who are not married [36]. Furthermore, mortality rates in the US are higher for non-married people than married people [24]. Happily married people have fewer health complaints and higher health ratings [37-40], sleep better, and have fewer physician visits than couples who are less satisfied with their marriage [9,41]. Changes in marital quality also correlate with changes in physical health [9]. Decline in health is linked with decreased marital satisfaction [42]. Health and marriage are so intertwined that researchers have described the health gain from marriage as similar to the benefit from giving up smoking [43]. We examine them as moderating variables because the association between overweight and marital satisfaction may vary depending on the respondent's perceived health status. Overweight individuals who perceive themselves as healthy are likely to evaluate themselves more positively than overweight individuals who perceive themselves to be in poor health.

Marital satisfaction has a “U” shaped relation to length of marriage

In the beginning of marriage, marital satisfaction tends to be high, declining somewhat over the course of the marriage (particularly with the introduction of children - usually between the years of 7 and 14) and then increasing again and eventually leveling off [44-46]. There are contradictory findings regarding the effect that children have on marital satisfaction, as both positive [47] and negative associations [48] have been found. Length of marriage and number of children are included in our study as control variables.

Race and ethnicity are linked to body weight

With the increase in the awareness of the association of race and ethnicity with health, particularly body weight, these variables become increasingly important to control in studies. For example, seventy three percent of African American women are overweight or obese compared to less than 60% of European-American [49]. Race and ethnicity are also found to be important factors in measuring the effectiveness of publicly funded weight loss programs [50]. However, the distinction between race and ethnicity, as two completely separate factors influencing an outcome, are often blurred e.g., [50]. Nonetheless, the National Institute of Health adoption of the 1990 Office of Management and Budget (OMB) revised minimum standards, which include two ethnic categories (Hispanic or Latino, and Not Hispanic or Latino) and five racial categories (American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or other Pacific Islander, and White), provide appropriate guidance for collecting data and consideration of the racial and ethnic differentiated in the underlying empirical studies. Given that, recent findings suggest that there could be an interaction between race and body weight in determining marital satisfaction, such that the association between body weight and marital satisfaction might be different among racial groups. Consequently, in our study race and ethnicity was included as a moderator.

To date, few studies have examined the link between body weight and marital satisfaction while taking all of these additional variables into account. Informed by social norms theory, we hypothesized that body weight would be negatively correlated with marital satisfaction independent of length of marriage and number of children. Second, we hypothesized that depression would mediate the association between body weight and marital satisfaction. Third, we hypothesized that physical health, health status, income, and race and ethnicity would moderate the relationship between body weight and marital satisfaction independent of length of marriage and number of children.

Method

We used the National Longitudinal Survey of Youth [10] (NLSY79). The survey was conducted annually from 1979-1994 and biennially from 1996 to the present. The NLSY79 sample is a multi-stage, stratified random sample. The NLSY79 has retention rates close to 90 percent from 1979 to 2002. The dataset provides a nationally representative sample of 12,686 young men and women who were between the ages of 14 and 22 when they were first interviewed in 1979. However, 4,962 cases were eliminated due to...
dropping out (2,722), refusal (1,092), cannot be located (410), death (346), difficult cases (257) and other reasons (135). In 2002 out of 7,724 (=12,686-4,962) there were 4,070 married respondents, and out of those, 2,573 were living with their spouse or partner. Only those female respondents reporting living with their partner were asked how happy they were with their relationship and, therefore, eligible to be in our sample. After restricting the sample to the women who are between 37 and 45 years of age in 2002, and excluding observations that would correspond to predictors with missing observations, the final analytic sample is N=1,640 (Table 1).

Variables

Marital satisfaction

Marital satisfaction was measured by the question “Would you say that your marriage is…” “1” very happy, “2” fairly happy, or “3” not too happy. We also experimented with including those who are divorced by adding a coding value of “4” for divorced respondents; thus, suggesting that they were defined as being extremely unhappy. For the analysis, responses to this question were reverse coded, such that higher scores indicated greater marital satisfaction, not marital dissatisfaction. The “not too happy” responses were collapsed with "extremely unhappy” responses because of the small number of responses in the “not too happy” category.

Body mass index

Body Mass Index (BMI), the main independent variable, was calculated by the respondent's self-reported height and weight measured as follows: weight/height^2 in pounds and inches (BMI = [weight in pounds/(height in inches)] x (height in inches)] x 703). Respondents' BMI were categorized as “underweight” (BMI under 18.5), "normal weight" (18.5-24.9), "overweight" (25-29.9) or "obese" (over 30) [54]. The categories of normal weight, overweight and obese were entered separately with indicator variables to account for the possibility that there could be a non-linear relationship between body weight and marital satisfaction.

Depression symptoms

Depression symptoms were calculated by the 9-item version of Center for Epidemiologic Studies Depression scale (CES-D) [55]. These nine items inquire about how often each of nine symptoms is experienced during the past week. Each item is scored from 0-3: “0” rarely, none of the time, one day; “1” some, a little of the time, 1-2 days; “2” occasionally, moderate amount of the time, 3-4 days; or “3” most, all of the time, 5-7 days. The index of depression is an individual's total score (range: 0-27). Dummy variables were created by taking the first third of the sample responses (scoring a 0 on the CES-D scale), the second tertile (scoring from 1-3) and the third tertile (scoring 4 or more).

Physical health limitation

Physical health limitation was calculated by the respondent's response to a dichotomous question "Would you be limited in the kind or amount of work you could do on a job for pay because of your health?" Given that the dependent variable, marital satisfaction, is a categorical variable, therefore, logistic regression models were fit. In particular, it is worth noting that the dependent variable (y=marital satisfaction) in this study is an ordered indicator of levels of satisfaction (µj, where, j=0,1,2,3). Therefore, under the proportional odds assumption, an ordered logit model (where, ) provides the proper setup for the reported regression analysis in this study [51]. One must note that the odds ratios are linearly related to the predictors in the model and that the parameters () are estimated by running the following regression where, In () is log of the odds:

\[
\ln(x_i) = \frac{P(x_i)}{1 - P(x_i)} = \mu_j + \beta_1 x_{1j} + \beta_2 x_{2j} + \ldots \beta_k x_{kj}
\]

For the reported statistical analysis in this paper, we used statistical software Stata [52] and [53], which allow for the proper use of weights when the sample has a complex design. The weight variable for 2002, which is included in the NLSY79, was used for the statistical analyses that are reported in Tables 1 and 2.

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Physical health limitation

Physical health limitation was calculated by the respondent's response to a dichotomous question "Would you be limited in the kind or amount of work you could do on a job for pay because of your health?"

Health status

Health status was assessed by the question, “In general, would you say your health is…” “1” excellent, “2” very good, “3” good, “4” fair or “5” poor. The fair and poor categories were collapsed together as 'poor health’ because of the small percentage of respondents who rated their health as poor (less than 2%).

The CES-D and the health status items were included in a health module that was administered to respondents when they turned 40. Therefore, the respondents in this sample were asked their health status and CES-D questions between the years of 1998 and 2006.
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
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<th>D</th>
<th>E</th>
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<td>(0.63, 0.97)</td>
<td>(0.62, 0.95)</td>
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<td>(0.66, 1.02)</td>
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<td>0.72*</td>
<td>0.70**</td>
<td>0.69*</td>
<td>0.76*</td>
<td>0.93</td>
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<td>(0.57, 0.91)</td>
<td>(0.57, 0.91)</td>
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<td>(0.54, 0.88)</td>
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<td>(0.73, 1.20)</td>
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<td>over 8</td>
<td>0.39**</td>
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<td>0.61**</td>
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<td>(0.30, 0.51)</td>
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<td>2 Children</td>
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<td>(1.28, 2.22)</td>
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<td>7-14 years</td>
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<td>(1.77, 3.09)</td>
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<td>(0.9, 3.88)</td>
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<td>$33,200-$56,999</td>
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<td>$57,000-$89,999</td>
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<td>&gt;$90,000</td>
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<tr>
<td><strong>Poor Health</strong></td>
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<td>Excellent Health</td>
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<td></td>
<td>(1.58, 3.14)</td>
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<td>Very Good Health</td>
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<td>(1.82, 3.51)</td>
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<td>(0.84, 1.87)</td>
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<td>Good Health</td>
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<td>(2.10, 4.29)</td>
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post hoc analyses to assess the independent relationships among body weight, income and marital satisfaction.

**Results**

The mean BMI in this sample is 27, within the "overweight" category [54]. Two percent of the sample is underweight, 44% normal weight, 29% overweight and 25% obese. (88%) of respondents reported no physical health limitations. The mean CES-D score was approximately 5, almost 25% of respondents reported being in excellent health, almost 40% in very good health, 25% in good health, and around 10% in fair or poor health (Table 1). The average length of marriage was approximately 12 years (SD=6.56) with 29% of respondents married under seven years, 28% of respondents married between seven and fourteen years and 44% of respondents married over 14 years. The weighted sample indicates that 6% self-identify themselves as Hispanic or Latino; thus, 94% self-identify as 'Not Hispanic and Latino' (Table 1). The weighted sample racial categories indicate that sample consist of 4% American Indian or Alaska Native, 1% Asian, 8% Black or African American, less than 1% Native Hawaiian or Pacific Islander, 77% White, and 8% who self-identify as others for their race. As point of comparison, one may note that the US population consists of approximately 75% White, 12% Black and 12% Hispanic [56]. The average income was $72,407 (SD=$66,687). On average, respondents had two children (SD=1.27), with 15% of respondents having no children, 18% having one child, 39% having two children and 27% having three or more children.

At first the bivariate model of body mass index divided into weight status and marital satisfaction was run. Compared to normal weight individuals, overweight individuals are 33% less likely to be happy with their marriage (OR, 0.67 [0.62-0.72], p<0.001) and obese (OR, 0.72, [0.57-0.91], p<0.001) to the bivariate model (overweight: OR, 0.76, [0.62-0.96], p<0.05 obesity: OR, 0.70 [0.56-0.88], p<0.05). Table 2 shows how the addition of each individual variable influences the bivariate relationship between body weight and marital satisfaction. The association between body mass index and marital satisfaction remained significant while controlling for depression symptoms, physical health limitations, number of children, and length of marriage (Table 2). The addition of these variables to the bivariate model did not meaningfully change the association between body weight and marital satisfaction reported above (Table 2).

Depression, physical health, having children, and length of marriage are independently associated with marital satisfaction (Table 2).

The addition of depression symptoms (OR, 0.39 [0.30-0.50], p<0.001) to the bivariate model (overweight: OR, 0.76, [0.62-0.96], p<0.05 obesity: OR, 0.72, [0.57-0.91], p<0.001) did not meaningfully change the association between body weight and marital satisfaction (Table 2). Depression symptoms did not mediate the association between body weight and marital satisfaction; thus, our second hypothesis was not supported.

When health status is added into the bivariate model, it confounds the association between BMI and marital satisfaction, rendering no association between being overweight or obese and having lower marital satisfaction. Instead of BMI, health status predicted marital satisfaction.
satisfaction (Table 2). Respondents who were in excellent health were 2.23 times more likely to be happy with their marriages than respondents in poor health (OR, 2.23 [1.58-3.14], p<0.001). Respondents in very good health were 2.53 times more likely to be happy in their marriages than respondents in poor health (OR, 2.53 [1.82-3.51], p<0.001) and respondents in good health were 3 times more likely to be happy with their marriages than respondents in poor health (OR, 3.00 [2.10-4.29], p<0.001).

The addition of income to the bivariate model also renders the association between BMI and marital satisfaction null. Income accounted for all of the association between BMI and marital satisfaction (overweight: OR, 0.91 [0.72-1.15], p=0.001; obese: OR, 0.93 [0.73-1.19], p=0.001). When compared to respondents who had an income under $33,200 those individuals with an income between $33,200 and $57,000 are 3.79 times more likely to be happy with their marriage (OR, 3.79 [2.87-5.00], p<0.001), whereas, individuals with an income between $57,000 and $90,000 are 8.34 times more likely to be happy with their marriage (OR, 8.34 [6.25-11.13], p<0.001). Individuals with an income over $90,000 are 13.47 times more likely to be happy with their marriage (OR, 13.47 [9.89-18.36], p<0.001) than individuals who earn less than $33,200. Income has a strong and consistent association with marital satisfaction - the higher the income; the happier individuals are with their marriages.

In the full model (Table 2), there is no association between BMI and marital satisfaction (overweight: OR, 0.93 [0.73-1.28], p=0.05; obese: OR, 0.95 [0.73-1.24], p=0.05) when controlling for depression symptoms, physical health limitations, number of children, length of marriage, race and ethnicity and income. There are independent associations between depression symptoms, being married for over 14 years, being in good health and all categories of income with marital satisfaction. Respondents who scored over eight on the CES-D scale were 38.6% less likely to be happy with their marriage (OR, 0.61 [0.45-0.82], p=0.001) than individuals reporting less than eight on the CES-D scale. Respondents who were married for over 14 years were 2.34 times more likely to be happy than respondents who had been married for under 7 years (OR, 2.34 [1.77-3.09], p<0.001). Respondents who reported being in good health were almost 1.48 times more likely to be happy with their marriages (OR, 1.48 [0.99-2.20], p=0.05) than respondents who were in poor health. Respondents whose family income was between $33,200 and $56,999 were 3.25 times more likely to be happy with their marriage (OR 3.25 [2.43-4.32], p<0.001) and respondents whose family income was between $57,000 and $89,999 were 6.73 times more likely to be happy with their marriage (OR, 6.73 [4.97-9.10], p<0.001) and respondents who earned over $90,000 were 10.50 times more likely to be happy with their marriages (OR, 10.50 [7.59-14.53], p<0.001) compared to those respondents who earned less than $33,200.

To test the hypothesis that physical health, health status, income, and race and ethnicity would moderate the relationship between body weight and marital satisfaction, interaction terms were created for each level of each independent variable. For example, each level of physical health limitations (with a limitation, or without a limitation), health status (excellent health, very good health, good health and poor health), income (4th quartile, 3rd quartile, 2nd quartile, and 1st quartile), racial, and ethnic categories was multiplied by normal weight, overweight and obese. The interaction terms for each independent variable were then separately added into the full model to assess moderation - i.e., all of the interactions of health status were added into the full model, then removed, and then all of the interactions of income were added into the full model, and likewise for physical health limitation and race and ethnicity. There were no significant interactions (not shown). Our third hypothesis is not supported.

Additionally, in order to assess the independent relationships of body weight and marital satisfaction with income, post hoc models were run. We ran logistic regressions predicting income from body weight (overweight: OR, 0.65 [0.53-0.80], p<0.001; obese: OR, 0.53 [0.43-0.66], p<0.001), predicting marital satisfaction from income (OR, 2.33 [2.12-2.56], p<0.001) and predicting body weight from income (OR, 0.78 [0.72-0.85], p<0.001). Our post hoc analyses revealed that income is independently associated with both body weight and marital satisfaction. Overweight and obese individuals are 35% and 57%, respectively, less likely to have a higher income than normal weight individuals. Respondents with a higher income are 2.33 times more likely to be happy with their marriages than respondents who had a lower income. Finally, respondents with a high income were almost 22% less likely to have high body weight than respondents with a low income.

Discussion

The purpose of this study was to examine the association between body weight and marital satisfaction among a representative sample of US women. Our investigation was informed by social norms and economic theories. Our findings are consistent with current trends in US society and with previous research [54,57,58]. Nearly 60% of our sample was overweight or obese and respondents who reported more depression symptoms were less happy with their marriages. Additionally, respondents who were married for over 14 years were happier with their marriages than respondents married for under 7 years [45,46].

We found a negative relationship between body weight and marital satisfaction that was independent of physical health limitations, depressive symptoms, length of marriage, number of children and race and ethnicity. However, the addition of income rendered the association between body weight and marital satisfaction null suggesting that income, not body weight, is the most important factor in predicting marital satisfaction. It is noteworthy that factors that previous research has indicated as influencing marital satisfaction (i.e., depression symptoms, physical health limitations, length of marriage, number of children and race and ethnicity) did not weaken the association between body mass index and marital satisfaction.

Our additional hypothesis that depression would represent the internalization of societal norms for thinness and mediate the relationship between body weight and marital satisfaction was not supported. We hypothesized that high BMI would be negatively associated with marital satisfaction due to society's high valuation of being "thin" or attaining a "normal" BMI. We hypothesized that individuals who were overweight would have more depression symptoms and therefore, lower marital satisfaction than their normal weight counterparts. Social norms theory suggested that not living up to society's expectations by being overweight would engender feelings of depression that would weigh heavily on marital satisfaction. This was not supported. Instead we found that high depression symptoms were related to low marital satisfaction and that high body weight was not related to high depression symptoms.

We also found a complex association of body weight and marital satisfaction with income. Income was found to be independently associated with both body weight and marital satisfaction: the higher
one's body weight, the lower one's income, and the lower one's marital satisfaction. This could indicate that contrary to our expectations that high body weight would create feelings of sadness; high body weight is associated with lower income. Because social norms theory was not supported through our findings, some other explanation for the relations among body weight, income, and marital satisfaction is needed.

Our finding that income is the best predictor of marital satisfaction highlights the importance of income in our society. There is nothing inherent in relationships that require money in order to be happy; however, in this consumer-driven society money is positively associated with many positive health and lifestyle outcomes. The lower one's income the less control one has in one's time, food intake, physical activity level, and stress levels [31-33].

However, income affects marital satisfaction differently depending on income level. Although there is a consistent and powerful dose effect at each level, it is not necessary to have a very high income to see positive effects on marital satisfaction. Even respondents who reported an income over $34,000 reported happier marriages than those respondents reporting the lowest income level.

In addition to the main findings discussed above, this study revealed an interesting health paradox: those respondents do not link obesity with poor health. The link between overweight/obesity and poor health outcomes is well established [59,60]. In this study, the majority of respondents perceived themselves to be in good health or better, despite 60% of the sample being overweight or obese. This finding could also indicate a disparity in the knowledge of the negative health implications of obesity among the respondents.

Implications for practice

The present findings have practical and clinical implications. Conflict over finances is an important predictor of marital discord and divorce [29,30], however, clinical training programs traditionally do not provide much education and training in helping couples cope with financial issues. The curricula in clinical training programs such as the ones in accredited AAMFT programs commonly do not include coursework on family finances. Our findings suggest that income could be an important area to focus on when assessing and working with individuals and their marriages.

In addition, the associations of body weight and income and income and marital satisfaction suggest that assessment of both body weight and income could be important in clinical settings. Our results suggest that body weight and income should be considered and even directly addressed in therapy.

Conclusion

This study sheds light on the association between body weight and marital satisfaction. Strengths of this study include using a representative sample of the population of the United States. The results of this study indicate that income affects two important areas of women's lives: body weight and marital satisfaction. In addition to finding that income is the best predictor of marital satisfaction, we found that higher weight is associated with lower income, and lower income with lower satisfaction.

References