

Relationship Quality, Physical Activity, and Psychiatric Diagnoses



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Psychiatric

Disorder

(Depression)

Mood

(Positive and

Negative

affect)

The overall findings suggest that one's relationship with their spouse has an important

Family and Child Sciences

Figure 1. Estimated Percentage of

Individuals with Depression

646 39.2%

585 35.5%

418 25.3%

168 10.2%

1,481 89.8%

Figure 2. Conceptual Model of the Linkages of the Variables

GOALS AND AIMS

Goal:

The overall goal was to better understand the different elements of spousal relationship quality in producing positive health outcomes.

Specific aims:

- 1. To determine whether spousal support and strain are associated with engaging in vigorous physical activity.
- 2. To identify whether the associations of spousal support and strain with vigorous physical activity differs by being diagnosed as depressed or not.
- 3. To determine to what extent mood mediates the above relationships.

PREVIOUS RESEARCH

Previous research shows:

- Both support and strain in the marital relationship have the potential for shaping physical activity.
- Vigorous physical activity in older and aging adults leads to health benefits, while not engaging leads to negative health consequences.
- Spousal support and strain have been shown to be related to mood. Mood has been found to be related to whether a person will engage in physical activity.
- Depression, a common psychiatric disorder, may impede engagement in physical activity due to the nature of the disorder and is also related to mood.
- Emotional support from spouses may lessen the impact of the emotions felt due to mental illness.

METHODS

Sample

• 2011-2014 Refresher Wave of the Midlife Development in the U.S. (MIDUS) Survey. N= 1,649; Male= 53.8%; Ages 25 to 74; Mean age=51.46.

Measures

- Spousal Strain was similarly assessed with 6 items, e.g.: "How often does he or she argue with you?", "How often does he or she criticize you?" Cronbach's alpha=.88
- Vigorous Physical Activity Group was assessed by the responses to type of and how often at "Several times a week", "Once a week", "Several times a month", "Once a month", "Less than once a month", and "Never." The and does not engage. Cronbach's alpha=.91,
- Depression was assessed using 6 items and then run as whether they have
- *Mood* was assessed using of participants scores on positive and negative affect. Cronbach's alpha=.92 and .88 respectively

RESULTS

Table 2. Results from Multinomial Regression Predicting Classification in Vigorous Physical Activity Group

Regularly Eng (As compared			hysical Activity e Group)†	Somewhat Engages in Vigorous Physical Activity (As compared to Does Not Engage Group)†			
Variable	OR	CI(95%) Lower Bou	CI (95%) and Upper Bound	OR	CI (95%) Lower Bound	CI (95%) Upper Bound	
Spousal Support	1.37*	1.01	1.89	1.62***	1.21	2.20	
Spousal Strain	1.01	.77	1.32	1.28	.98	1.67	
Depression	.77	.50	1.19	.86	.56	1.31	
Depression *Support	1.56	.87	2.80	.87	.48	1.60	

Table 3. Results from Multinomial Regression testing Mediation Model with Mood

Depression ./U

*Strain

Mediation Moin Vigorous Pl			Mediation Model: Somewhat Engages in Vigorous Physical Activity†			
Variable	OR	CI (95%) LB	CI (95%) UB	OR	CI (95%) LB	CI (95%) UB
Spousal Support	1.30	.95	1.78	1.61**	1.19	2.18
Spousal Strain	1.12	.85	1.47	1.30	.99	1.71
Depression	1.10	.67	1.81	.94	.59	1.50
Positive Affect	1.78***	* 1.40	2.23	1.22	.97	1.53
Negative Affect	1.13	.85	1.50	1.10	.84	1.45

†Models control for age, race, ethnicity, BMI, income level, and sex. There was no evidence that these associations differed by the presence of a psychiatric disorder. *p<.05, **p<.01, ***p<.001

Engaging in Vigorous Physical

Activity

• Spousal support not strain, is associated with engaging in vigorous physical activity, particularly for regular engagement.

• Even if a person is depressed, greater spousal support will still be associated with higher odds of engaging in vigorous physical

CONCLUSIONS

- activity for both groups. The extends previous research on understanding the benefit of spousal support even in the midst of a psychiatric disorder.
- The apparent benefit of spousal support appears to be operating through positive affect for the regularly engages in physical activity group. This is consistent with previous research that has related spousal support to mood and extends that research to our understanding of what process influence engagement in healthy activity.
- For the somewhat engages in physical activity group, the relationship with one's spouse was important aside from mood.

Spousal

Support

Spousal

Strain

- Spousal Support was assessed using 6 items e.g.: "How much does your spouse or partner really care about you?", "How much does he or she appreciate you?" Cronbach's alpha=.91
- exercise (e.g.: running, vigorous swimming, etc.) for both summer and winter participant were split into three groups: regularly engages, somewhat engages,
- depression (yes/no).

impact on their engagement in positive physical health activities.