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Just here for moral support: A path analysis of depression and social support networks

Jordan E. Marshall University of Nebraska-Lincoln, marshalljo12@gmail.com

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Introduction

Social support has been shown to be associated with lower depression scores in a variety of populations. Using a series of questionnaires, Leahy-Warren, McCarthy, and Corcoran (2011) found significant negative relationships between functional social support and postnatal depression as well as between informal social support and postnatal depression. Grav et. al, (2011) conducted a similar study on the general population, and found that perceived support was significantly correlated to depression.

Research suggests that there are gender differences in the relationship between social support and depression. Utilizing data from the Longitudinal Aging Study Amsterdam, Sonnenberg et. al, (2013) found a lack of partner in the household and a small network predicted depression in males but not in females.

There is evidence that certain types of social support changes throughout adulthood. A meta-analysis conducted by Wrzus et. al, (2013) revealed that friendship networks decrease throughout adulthood, but that family networks remained consistent.

Anxiety has been shown to be negatively correlated to certain types of social support. Using data from the Collaborative Psychiatric Epidemiology Surveys, Priest, (2012) found that, for both single and married participants, relative and friend relationship quality was associated with several different anxiety disorders.

The current study aims to empirically understand depression, anxiety and social support using a path analysis. A full and trimmed path model able to predict Depression was constructed using Gender, Age, Marital Status, Trait Anxiety, Friend Social Support, Significant Other Social Support, Family Social Support, State Anxiety, Loneliness, and Stress as predictors.

Methods

Participants included college aged and adult individuals recruited from two large Midwestern Universities and three large Midwestern Community Colleges via fliers posted outside of Introductory Psychology classrooms. 650 persons interested in the study were mailed a set of self-report questionnaires, including the Beck Depression Inventory to assess depression. 363 of these individuals (169 male) responded and were used in the analysis. A full path model for Depression was created using Gender, Age, Marital Status Trait Anxiety, Friend Social Support, Significant Other Social Support, Family Social Support, State Anxiety, and Stress as predictors. Regression analyses were performed for each possible criterion and predictor combination amongst the aforementioned variables. Then all non-significant paths were removed from the full model to create a trimmed model version.

Table 3: Model Comparison

Fit of Full Model	Fit of Trimmed Model	Ν	d	Q	W	р					Lone	eliness						
0.960	0.957	363	20	0.927	26.038	0.165	Criterion				R ² for the n	nodel = 0.5	545					
						0.200				error as	sociated wi	th Loneline	ess = 0.675	1				error
							Predictor	Gender	Age	Marital	Trait Anx	FRSS	SOSS	FASS	State Anx	Gender	Age	Marita
	Pofor	ences					β	-0.001	*0.216	-0.011	*0.376	*-0.236	*-0.147	*-0.112	0.085	0.027	-0.115	-0.00
Grav. S., Hellzèn, O., Ro	nild, U., & Stordal, E. (2011) As		etween soc	ial support a	nd depressio	on in	р	0.974	< 0.001	0.857	< 0.001	< 0.001	0.006	0.02	0.131	0.581	0.142	0.926
	pulation: the HUNT study, a cr				-													

Z), 111-120.

Leahy-Warren, P., McCarthy, G., & Corcoran, P. (2012) First-time mothers: social support, maternal self efficacy and postnatal depression. Journal of Clinical Nursing 21(3-4), 388-397. Priest, J. B. (2013) Anxiety disorders and the quality of relationships with friends, relatives, and romantic partners. Journal of Clinical Psychology 69(1), 78-88.

Sonnenberg, C. M., Deeg, D. J. H., van Tilburg, T. G., Vink, D., Stek, M. L., & Beekman, A. T. F. (2013) Gender differences in the relation between depression and social support in later life. International Psychogeriatrics 25(1), 61-70.

Wrzus, C., Hänel, M., Wagner, J., and Neyer, F. J. (2013) Social network changes and life events across the life span: A meta-analysis. Psychological Bulletin 139(1), 53-80.

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Jordan E. Marshall Department of Psychology, University of Nebraska-Lincoln

Results

Full Model

The full model had a fit of 0.960. (See Table 1.) Gender, Trait Anxiety, Loneliness, and Stress were direct predictors of depression. The indirect predictors of depression included Gender, Age, Marital Status, Trait Anxiety, Friend Social Support, Significant Other Social Support, Family Social Support, and State Anxiety. (See Figure 1.)

Trimmed Model

The trimmed model had a fit of 0.957. (See Table 2.) Trait Anxiety, Loneliness, and Stress were direct predictors of depression. The indirect predictors of depression included Gender, Age, Marital Status, Trait Anxiety, Friend Social Support, Significant Other Social Support, Family Social Support and State Anxiety. (See Figure 2.)

Model Comparison

A total of 20 nonsignificant paths from the full model were removed to create the reduced model. There was not a significant difference between the fit of the full model (0.960) and the fit of the trimmed model (0.957), Q=0.927, W=26.038, p=0.165. (See Table 3.) So, removing the paths did not reduce the fit of the model.

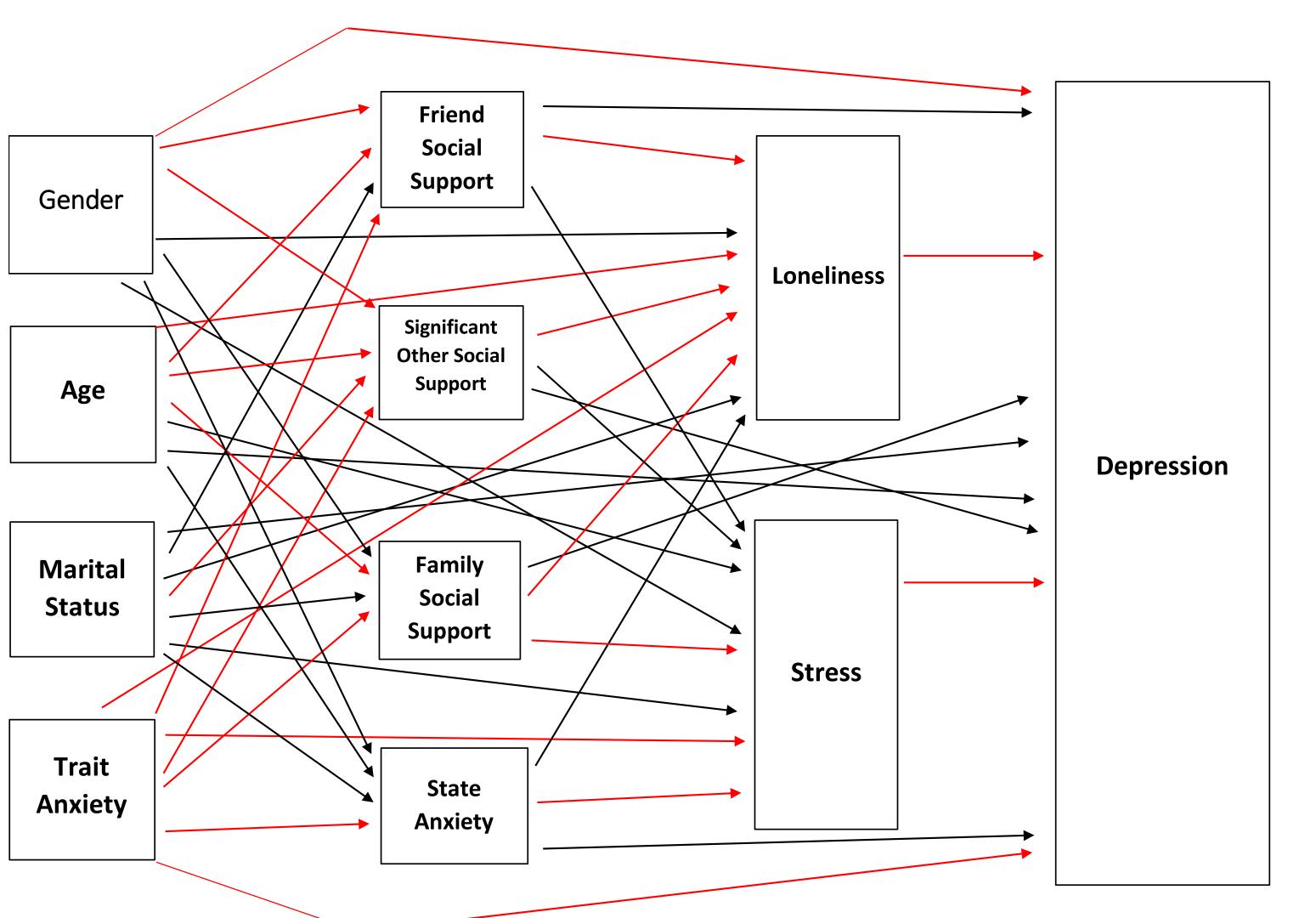


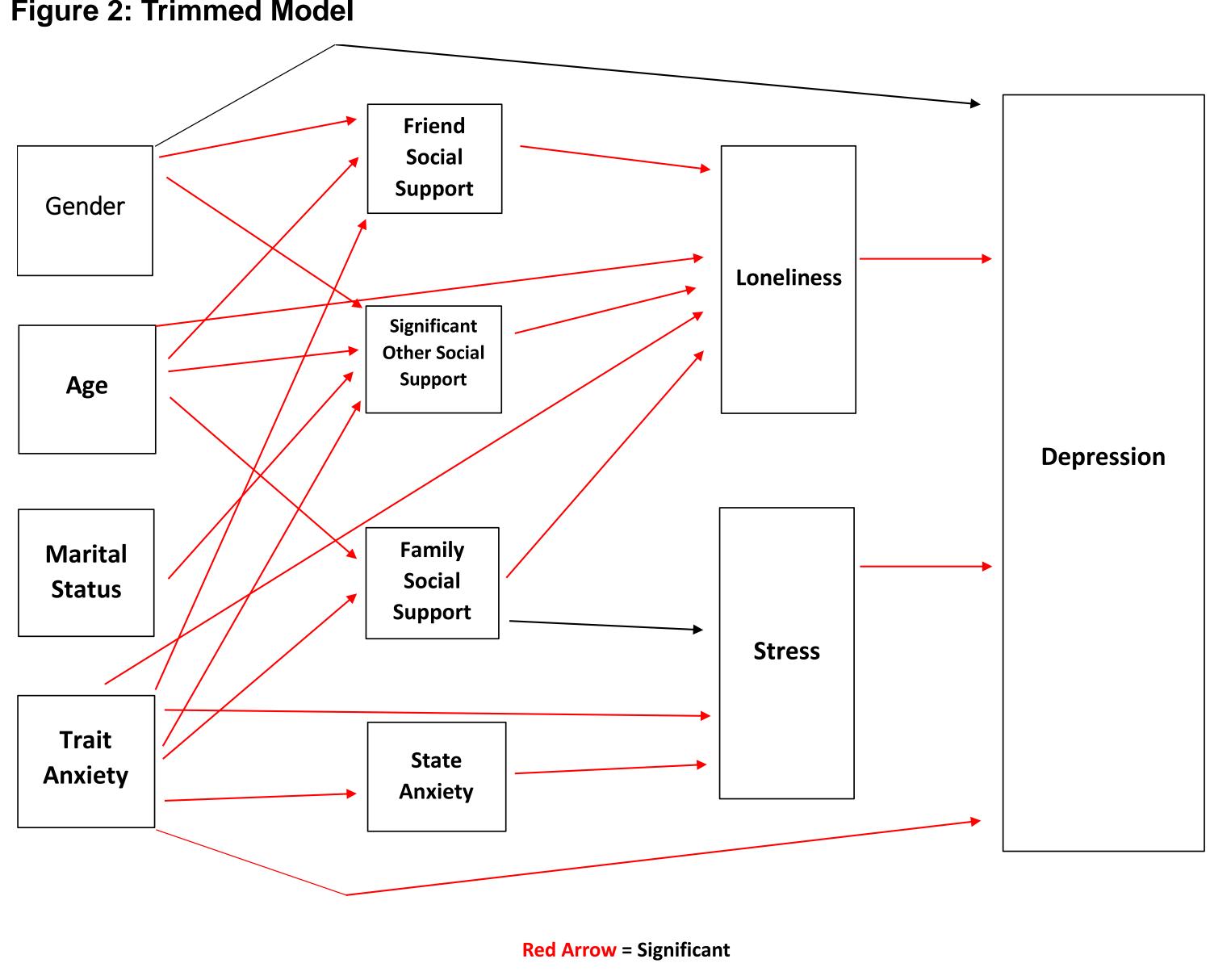
Figure 1: Full Model

Table 1: Full Model

l		Frie	nd Social	Support ((FRSS)	Significar	nt Other So	ocial Supp	Family Social Support				
l	Criterion	R	² for the m	nodel = 0.3	166	R ² for the model = 0.181					R^2 for the model = (
l		error a	ssociated	with FRSS	5 = 0.913	error a	associated	with SOSS	= 0.905	error a	ssociated w	ith FAS	
l	Predictor	Gender	Age	Marital	Trait Anx	Gender	Age	Marital	Trait Anx	Gender	Age	Marit	
l	β	*0.18	*-0.239	-0.084	*-0.288	*0.156	*-0.406	*0.416	*-0.271	0.003	*-0.244	0.13	
l	р	< 0.001	0.002	0.284	< 0.001	0.001	<0.001	< 0.001	<0.001	0.955	0.002	0.09	
l													

* = Significant	Criterion	Dep R ² for the error associated wi							
	Predictor	Gender	Age	Marital	Trait Anx	FRSS			
	β	*0.080	-0.055	-0.045	*0.358	-0.092			
	р	0.035	0.373	0.479	<0.001	0.083			

			Ctot							
rt (F/	•			e Anxiety	F07					
0.13				model = 0 .						
455 =	0.932	error a	issociated v	with State A	Anx = 0.643					
rital	Trait An	x Gende	r Age	Marital	Trait Anx					
33	*-0.334	-0.029	-0.065	0.055	*0.766					
97	< 0.001	0.391	0.237	0.318	< 0.001					
	S	tress								
R ²	² for the i	model = 0	.230							
or as	sociated	with Stres	ss = 0.877							
ital	Trait An	x FSS	SOSS	FASS	State Anx					
800	*0.176	0.031	0.061	*-0.125	*0.272					
26	0.018	0.637	0.377	0.044	<0.001					
pres	sion									
e mo	del = 0.5	39								
with Depression = 0.679										
SO	SS	FASS	State Anx	Lonelines	Stress					
0.0	38	0.000	0.069	*0.219	*0.232					
		0.995	0.233	<0.001	< 0.001					
-10.4										



the relationships involved.

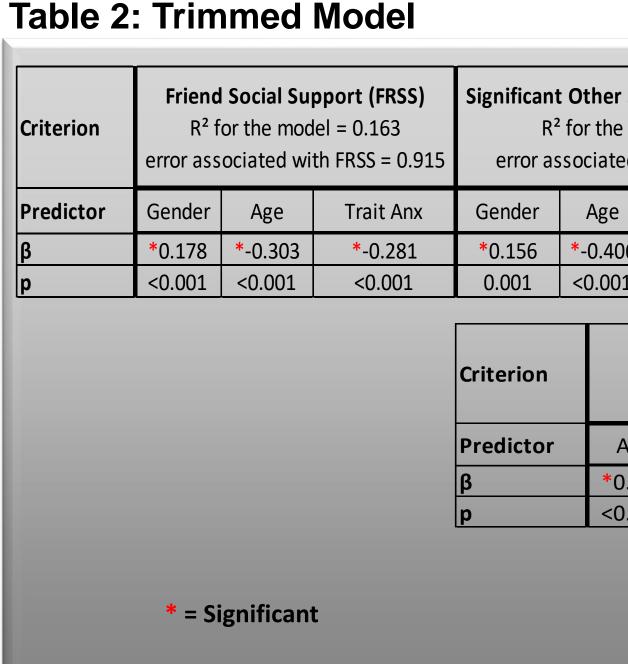


Figure 2: Trimmed Model



Discussion

Twenty nonsignificant paths were dropped from the full model to create the trimmed model. However, all the predictor variables in the full model were either a direct or indirect statistically significant predictor of Depression, so none of the predictor variables were eliminated in the trimmed model. The trimmed model did not have a significantly different fit from the full model. In future studies, it would be interesting to look at the fit of the model for different populations. Such as, seeing if the model works equally well for those in different socio-economic classes, or different ethnic backgrounds, or different sexual orientations. It would also be interesting to create a similar study in a more structured lab environment. For example, exposing participants to unpleasant video stimuli, then controlling the social support they receive afterwards by having them interact with a confederate. A study such as this with more internal validity paired with the current study, which has more external validity, would help provide a better overall understanding of

e model = 0.181 R						hily Social Support (FASS) R ² for the model = 0.124 associated with FASS = 0.936					State Anxiety R ² for the model = 0.584 error associated with State Anx = 0.645				
2	M	arital	Trai	it Anx	AĘ	ge		Tr	rait Anx		Trait Any	(
06	*().416	*-().271	* -0.	.141		*	-0.345		* 0.764				
)1	<0	0.001	<0	.001	0.0	05		<	<0.001		< 0.001				
Loneliness R ² for the model = 0.542 error associated with Loneliness = 0.677									7		Stress R ² for the model = 0.209 error associated with Stress = 0.889				
Age	ć	Trait A	Anx		FRSS		SOSS		FASS	Trait Any	FASS	State Anx			
).20)2	*0.43	39	*	-0.244		*-0.15)	*-0.111	*0.194	-0.058	*0.269			
0.00	01	<0.00)1	<	0.001		0.003		0.019	0.009	0.246	<0.001			
CriterionDepressionR2 for the model = 0.528error associated with Depression = 0.68															
P					Pred	dictor	ſ	Gender	Trait Anx	Loneliness	Stress				
						β		(0.059	*0.427	*0.224	*0.252			
						р		(0.107	<0.001	<0.001	<0.001			

