The Impact of Social Support Networks on Mental Health Outcomes for Individuals Diagnosed with Cancer Styliani (Liana) Petraki California State University, Fullerton, Department of Social Work

Abstract

- * Research regarding individuals diagnosed with cancer suggests that social support is inversely related to adverse mental health outcomes such as depression and anxiety. There is little research on the effect of different social support systems as they relate to individuals with cancer.
- The purpose of the current study is to examine the relationship between different social support systems (family, friend, partner, overall) as they relate to depression and anxiety as well as age and gender.
- ✤ This project utilized the third wave of the Midlife in the United States (MIDUS) 2013 survey in order to collect data regarding the social support and mental health outcomes for individuals who have been diagnosed with cancer.
- The results suggest that overall social support is significantly negatively correlated with depression and anxiety.
- The findings of the study provide evidence for the hypothesis that different social support networks are significantly related to mental health outcomes for individuals who have been diagnosed with cancer.
- The finding of the current project suggest that assessment of the types social support networks is critical in facilitating adjustment and adaptation to diagnosis for individuals with cancer.

Introduction

Cancer is the second leading cause of death in the United States.

- Cancer is associated with negative mental health outcomes such as depression, anxiety, and PTSD (particularly for survivors).
- Social support is an effective means in dealing with negative life events such as physical health diagnoses.

Research Questions:

*What is the effect of different social support networks (friends, family, partner. overall) on the mental health (depressive and anxious symptoms) of individuals diagnosed with cancer?

- Are different support networks perceived differently by individuals with cancer? Hypothesis
- Social support is inversely related to depression and anxiety.
- Family support, friend support, partner support, and overall support is perceived differently by individuals diagnosed with cancer.



Literature Review

- **\Rightarrow** Cancer Incidences in the United States: \approx 1.7 million cases
- **\therefore** Cancer Mortality Rate in the United States: \approx 600,000
- Lifetime Diagnosis Incidence for Men and Women: 38.4%
- ☆ Cancer Survivors: ≈ 15.5 million (National Cancer Institute, 2018) * Cancer treatment (chemotherapy, radiation, surgery) is associated with serious
- short- and long-term physical health affects.
- Cancer is associated with increased incidences of anxiety, depression and other negative mental health outcomes.
- Social support is associated with better coping and adjustment for individuals diagnosed with cancer.

Faculty Advisor Dr. Gordon Capp

Methodology

Original Data/Research Design:

Secondary analysis of the 3rd Wave of the MIDUS Survey 2013-2014

- Original study occurred in 1995, 2nd wave 2004, 3rd wave 2013
- Collected longitudinal health, social, spiritual, and psychological data
- Current study used cross-sectional design,

Data Collection: Random selection from

pool of US phone numbers

- Phone Interview and 2 fifty-page mail-in surveys (2 previous waves)
- Original participants (1995): 25-75yrs
- Current Study (2013): 43-91yrs

Respondent's

calculated age

Depressed Affect

(continuous)

Anxiety Disorder

(continuous)

Friend Support

Family Support

Partner Support

Overall Support

Overall Support

without Partner

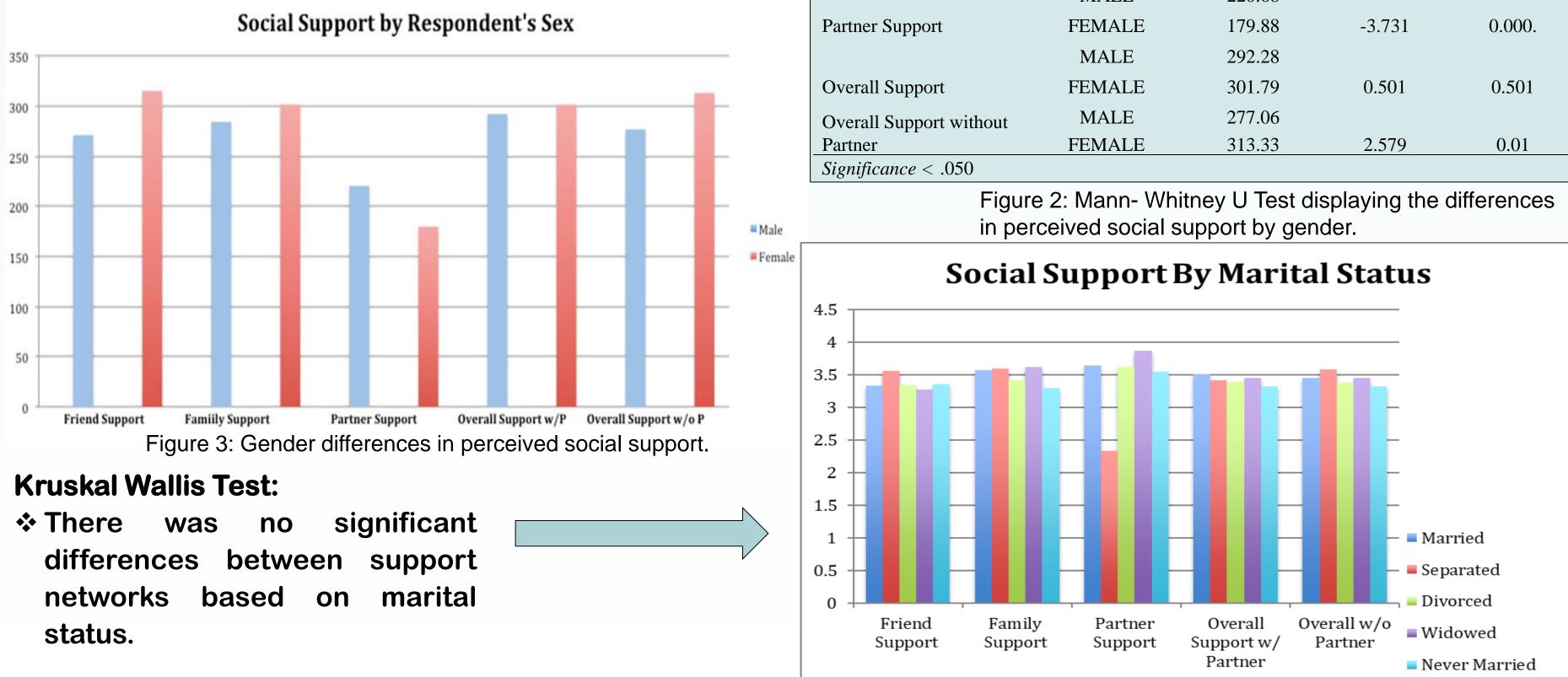
Results

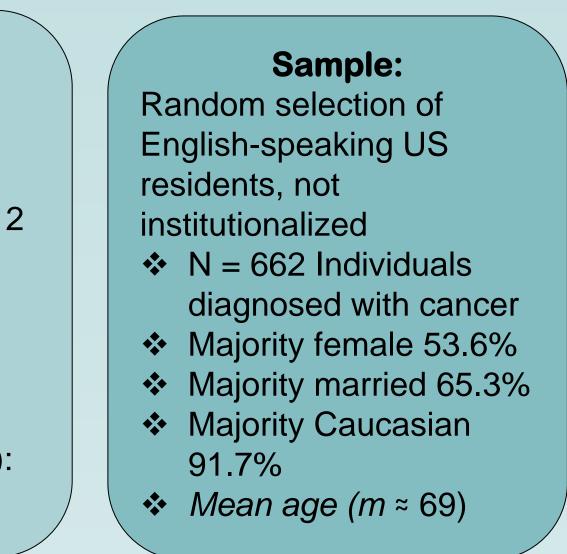
Spearman's Rho:

- Depression was negatively correlated with family support r_s (662)= -0.123, p< 0.01, partner support r_s (662)= -0.147, p< 0.01, overall support rs (662)= -0.124, p< 0.01, and overall support without partner r_s (662)= -0.097, p< 0.05. (Figure 1)
- * Anxiety disorder was only significantly negatively correlated with overall support r_s (662)= -0.085, p< 0.01. (Figure 1)
- Age was negatively correlated with anxiety r_s (662)= -0.131, p< 0.01 and depressed affect rs (662)= -0.092, p< *Note.* **p* < .05. ***p* < .01. 0.05. (Figure 1)

Mann-Whitney U Test:

There was a significant (r < 0.050) gender difference</p> in perceived friend support U = 49545.0 z = 3.172, r =0.38, partner support U = 16043.0, z = -3.731, r = 0.0, and overall support without partner U = 48844.0, z = 2.579, r = 0.01. (Figure 2 & 3)





Measures: Independent	
Variables, Support:	
Family: Average of 4	
Likert Scale questions	
Friend: Average of 4	
Likert Scale questions	
Partner: Average of 5	
Likert Scale questions	
✤ Overall: Average of	
Family, Friend, Partner	

Overall w/o Partner: Average Family & Friend

Correlations: Spearman's Rho									
Respondent's calculated age	Depressed Affect (continuous)	Anxiety Disorder (continuous)	Friend Support	Family Support	Partner Support	Overall Support	Overall Support without Partner		
1									
092*	1								
131**	.284**	1							
-0.067	-0.059	-0.074	1						
.130**	123**	-0.04	.464**	1					
.120*	147**	-0.064	.199**	.249**	1				
0.031	124**	085*	.814**	.738**	.601**	1			
0.031	097*	-0.077	.888**	.790**	.257**	.927**	1		

Figure 1: Spearman's Rho Table showing the relationships between social support, mental health outcomes and age.

Mann - Whitney U Test							
	Desman dentis Com	Maan Daula	Standardized	Cianifiaanaa			
	Respondent's S ex	Mean Rank	Test Stat istic	Significance			
	MALE	271.24					
Friend Support	FEMALE	315.42	3.172	0.002			
	MALE	284.51					
Family Support	FEMALE	301.81	1.268	0.205			
	MALE	220.68					
Partner Support	FEMALE	179.88	-3.731	0.000.			
	MALE	292.28					
Overall Support	FEMALE	301.79	0.501	0.501			
Overall Support without	MALE	277.06					
Partner	FEMALE	313.33	2.579	0.01			

Discussion

- **Summary of Results:** Depression is associated with lower levels of family support, partner support, and overall support.
- High levels of depression corresponds with high anxiety.
- Anxiety is associated with lower levels of overall support.
- Search type of social support network (friend, family, partner, overall) is positively associated.
- * Younger participants reported higher levels of depression and anxiety.
- support.
- * Female participants reported higher rates of friend support than male participants. Male Participants reported higher levels of partner support than
- female participants.
- * Female participants reported higher levels of overall support without partner than male participants. **Implications for Practice:**
- It is critical to assess patients for depression and anxiety during the cancer disease course and after survivorship.
- Understanding patients' social support networks may help mental healthcare providers connect clients to needed social resources.
- Holistic treatment of patients diagnosed with cancer is crucial. **Future Research:**
- Future studies should explore the relationship between social support and PTSD following cancer survivorship.
- Further research regarding patient age and social support at the time of cancer diagnosis is needed.
- * Research is needed to understand the relationships between age at the time of diagnosis, social support, and time immediately following diagnosis.
- Additional research about the different types of cancer as they relate to different social support networks is necessary. **Strengths & Limitations:**
- ✤ The current study was able to examined four different social support systems as they relate to the mental health of individuals with cancer.
- The current study is a secondary analysis therefore there is a lack of focus on the study variables
- The anxiety measure was not as sensitive, as necessary. Small sample size.

Measures: Dependent Variables, Mental Health:

Depression: Average of 7 yes/no questions ✤ <u>Anxiety</u>: Average of 10 Likert scale questions

Statistical Analysis: Each study variable was analyzed by utilizing IBM's **Statistics Packages for** Social Science Version 26. Spearman's Rho Correlational Test, Mann-Whitney U Independent Sample Test, & Kruskal Wallis Mean Comparison Test

Older participants reported higher levels of family and partner

Figure 4: Kruskal Wallis Test comparing social support by marital status.