

Key word: self-efficacy, gender difference, outpatient chemotherapy

Introduction

Outpatient chemotherapy is a recent trend in cancer treatment. Patients with cancer typically experience high levels of distress that can provoke negative psychological symptoms even when receiving outpatient chemotherapy instead of admission. Cancer coping strategies such as seeking support are associated with better adaption, well-being and quality of life. However, there are differences in emotional behavior and willingness to seek support according to gender. The objective of this study was to determine that the differences in levels of self-efficacy for cancer coping behavior according to gender, including emotional status, quality of life, social support, and to identify the priority factor by gender for providing individual supportive care for patients receiving outpatient chemotherapy.

Method

This study was conducted in the oncology outpatient chemotherapy units of a medical center. A total of 106 patients (males: 46, female: 60) were included. Patients completed the Personal Information Form, Hospital Anxiety and Depression Scale (HADS), Cancer Behavior Inventory (CBI), Medical Outcomes Study Social Support Survey (MOS-SSS) and Short Form-12 (SF-12).

Results

Among the 106 participants included in the study, gender was significantly associated with cancer coping behavior. Males exhibited lower self-efficacy for cancer coping behavior, lower capacity to manage emotions and seeking support, and lower ability to participate in therapy (Table 1). Anxiety and depression were the significant factors that were negatively correlated with self-efficacy for coping with cancer (Table 2). However, higher anxiety, depression, physical pain, and lower quality of life were also found among males **(Table 3)**.

Conclusions

Attention should be paid to patients receiving outpatient chemotherapy who show characteristics correlated with anxiety, depression, cancer coping behavior, and quality of life. Additionally, strategies focused on periodic screening of male patients' emotional status, cancer coping behavior, and pain-related factors are important for improving their quality of life after receiving outpatient chemotherapy and to increase the quality of outpatient supportive care.

Table 1 **(P value<0.05) Univariate analysis of four constructs with different demographic.														Table 2.Subdomain of Self	-Efficacy fo	**(P value<0.05)		
Variable	Category	Compassion HADS			Compassion CBI			Compassion MOS-SSS			Compassion SF-12			Subdomain	P value	Gender	Mean (SD)	
				Domain 1										0.23	Male	21.23 (5.91)		
	-	Mean (SD)	t/F	р	Mean (SD)	t/F	р	Mean (SD)	t/F	р	Mean (SD)	t/F	р	Belief positive attitude and sense				
Gender	-	(JD) -	4.5	0.036	(50)	4.071	0.046**	(SD)	2.006	0.868	-	3.106	0.081	of humor	-	Female	22.89 (5.72)	
	M-1.	11.00			00.14			75 07			26.01			Domain 2	<u>0.019**</u>	Male	29.27 (6.47)	
	Iviae	(7.2)	-	-	98.14 (22.44)	-	-	(13.79)	-	-	36.81 (4.39)	-	-	ability to		E I	22.92 ((19)	
					100.10									participate in	-	Female	32.83 (6.18)	
	Female	8.03 (7.5)	-	-	109.13 (22.82)	-	-	75.98 (18.46)	-	-	38.54 (3.92)	-	-	coping management				
Education	-	-	0.621	0.603	-	0.039	0.99	-	0.27	0.847	-	0.266	0.85	Domain 3 Belief in maintaining	0.121	Male	21.32 (5.44)	
Work	-	-	0.07	0.93	-	0.34	0.713	-	3.057	0.051	-	1.803	0.17	independence and activity	-	Female	23.33 (5.37)	
Marriage	-	-	0.69	0.601	-	0.601	0.663	-	1.255	0.293	-	1.443	0.225	Domain 4	<u>0.016**</u>	Male	11.32 (4.32)	
Economic	-	-	0.479	0.751	-	1.088	0.367	-	0.577	0.68	-	0.87	0.485	Capacity to manage their emotions and			12.04 (4.52)	
I ÷ inc			0.529	0796		1.022	0.41		0.227	0.017		0.000	0.054	seeking social	-	Female	13.94 (4.52)	
with	-	-	0.520	0.780	-	1.052	0.41	-	0.237	0.910	-	0.090	0.004	support				
someone																		
Religion	-	-	2.157	0.098	-	1.074	0.363	-	0.616	0.606	-	3.04	<u>0.032**</u>					
Table 3		of or the			J : 9E 1												**(P value<0.05)	
Variable	rishle Category Physical Functioning				Role Physical Rodiky			Conoral Hoalth			Vitality			l Functioning Role	actioning Dala Emotional		Montal	

Gender

Gender-based Differences in Coping, Emotional Status, Quality of Life, and Social Support in Individuals with Cancer Receiving Outpatient Chemotherapy

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e analysis	**(P value<0.05)															
Category	Physical Functioning		Role-Physical		Bodily Pain		General Health		Vitality		Social Functioning		Role-Emotional		Mental Health	
-	Mean (SD)	р	Mean (SD)	р	Mean (SD)	р	Mean (SD)	р	Mean (SD)	р	Mean (SD)	р	Mean (SD)	р	Mean (SD)	р
-	-	0.224	-	0.057	-	<u>0.015**</u>	-	0.96	-	0.2	-	0.192	-	<u>0.014**</u>	-	0.9
Male	4.77 (1.13)	-	5.69 (2.57)	-	2.5 (1.14)	-	3.09 (0.89)	-	3(1.31)	-	3.63 (0.95)	-	7.13 (2)	-	6.6 (1.23)	-
Female	5.04 (0.9)	-	7.52 (1.99)	-	1.87 (1.04)	-	3.08 (1.02)	-	2.68 (0.97)	-	3.99 (1.16)	-	8.22 (1.78)	-	7.61 (0.88)	-

