RESEARCH ARTICLE

Effects of Distant Reiki On Pain, Anxiety and Fatigue in Oncology Patients in Turkey: A Pilot Study

Melike Demir^{1*}, Gulbeyaz Can², Ayhan Kelam³

Abstract

Background: Fatigue, stress and pain are common symptoms among cancer patients, affecting the quality of life. The purpose of the present study was to determine the effect of distant Reiki on pain, anxiety and fatigue in oncology patients. Materials and Methods: Participants in the control group received usual medical and nursing care during their stay. The intervention group received usual care plus five distant Reiki sessions, one each night for 30 min. A face to face interview was performed and patient personal and illness related characteristics were evaluated using the Patient Characteristics form. Pain, stress and fatigue were evaluated according to a numeric rating scale. Results: The experimental group was predominantly composed of women (71.4%), married individuals (40%), and primary school graduates (40%). The control group was predominantly male (72.7%), married (60%), and primary school graduates (60%). The control group demonstrated greater levels of pain (p=0.002), stress (p=0.001) and fatigue (p=0.001). The Reiki group pain score (p<0.0001), stress score (p<0.001) and fatigue score were also significantly lower. Conclusions: The results of this study indicate that Reiki may decreasepain, anxiety and fatigue in oncology patients

Keywords: Reiki - oncology - pain - anxiety - fatigue

Asian Pac J Cancer Prev, 16 (12), 4859-4862

Introduction

Complementary/alternative therapies described to five subcategory by the National Center for Complementary and Alternative Medicine (NCCAM) and Energy therapies are considered one of them (Coakley and Barron, 2012). The word Reiki is means life force energy and energy including the human body. Reiki restored and balanced to energy of body (Moore, 2005; Coakley and Barron, 2012;).

More than 1.2 million adult population reported that Reiki was a energy healing modalities in U.S. (Barnes et al., 2008). Reiki is a non invasive, inexpensive modality and it is offered to patients with cancer in hospitals and hospices throughout the country (Williams et al., 2009; Bossi et al., 2008, Burden et al., 2005).

Cancer has increasingly been recognized as a chronic illness. Cancer affects patients on physiological, social, and psychological levels (Tsang et al., 2007). Cancer treatment persist for long periods after diagnosis and treatment (Sikorskii et al., 2011). Cancer treatment cause lost of side effects. The pain, stress and fatigue is often seen side effects.

Fatigue, stress and pain is a common symptom among cancer patients, affecting the life style of the patient. In a study reported that fatigue was the most common problem (48.5%) and the other problems are pain (26.4%), stress (24.8%), depression (24.0%), or anxiety (24.0%) (Carlson et al., 2004). Fatigue is affecting 50% to 70% of the

population (Curt, 2000; Davidson et al., 2002; Carlson et al., 2004).

And then overall rates of stress were 35.1% in a large database of patients with cancer (N=9000) (Zabora et al., 2001) and 69% of cancer patients have reported that pain restricts their daily life activities (Breivik et al., 2009; Lee et al., 2014). In another study reported that pain occurs in 50% of patients with cancer undergoing treatment and more than 70% of patients experience pain towards the end of life (Davis et al., 2004). So that, the purpose of the study was to determine to effect of distant Reiki on pain, anxiety and fatigue in oncology patients.

Materials and Methods

Setting and participants

This randomized controlled trial was conducted in the Istanbul University Institute of Oncology in Turkey, from September 2013 to February 2014. The research group patients over the age of 18, who were willing to be part of the study. All of them knew Turkish well, and had at least a primary school education.

The study population was composed of patients with cancer at any stage and receiving any kind of chemotherapy (CT). All participants were blinded as to whether or not they were in a Reiki group and were told prior to the start of the intervention that they may or may not receive noncontact Reiki. There were no statistical

¹School of Health, Gumushane University, Gumushane, ²Istanbul University, Nursing Faculty, ³ Institute of Oncology, Istanbul University, Istanbul, Turkey *For correspondence: melekdm@gmail.com

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differences between the Reiki (n=8) and No Reiki groups (n=10).

Intervention

In distant Reiki, Reiki practitioner followed the traditional Usui Reiki protocol for distant healing. Reiki practitioner first undertake a name of patient and then send the healing energy to the patient. Participants in the control group received usual medical care during their stay. The Reiki group received usual care and five distant Reiki sessions, one each night in a day for 30 min. A single Reiki practitioner located over 8 km away, who was trained in the Usui line of Reiki (Degre 2) and has been practising Reiki for over 4 years.

Measures and instruments

A face to face interview was performed. Depending on the inclusion criteria of the study patients were invited and informed consent was obtained. Patients' personal and illness related characteristics were evaluated using the Patient Characteristics form. Pain, stress and fatigue were evaluated according to a numeric rating scale.

The Patient Information Form was developed by the researchers contained 14 items that addressed both personal (e.g. age, income level, employment status,) and illness related characteristics (e.g. diagnosis, surgical therapy, radiation therapy).

Pain, stress, fatigue were evaluated according to a numeric rating scale. The VAS is a 10 cm line with an anchor at each end.

Ethical considerations

Research Committee of the Istanbul University Institute of Oncology approved this study. The patients were informed, and verbal consent was obtained.

Statistical analysis

The SPSS version 16 program was used for data analysis. Descriptive statistics, means, median, frequencies, and percentage were used to show the socio demographic and the illness or treatment related characteristics of the patients. Comparisons were made using t test for all statistical analyses, a 2 sided p value of less than 0.05 was considered statistically significant.

Results

Socio demographic characteristics of patients

The experimental group was predominantly women (71.4%), married individuals (40%), and primary school

graduates (40%). The patients' mean age was 38.62±19.50 and most of the patients were Non Worker (62.5%). The characteristics of the sample are shown in Table 1.

The control group was predominantly men (72.7%), married individuals (60%), and primary school graduates (60%). The patients' mean age was 28.70±8.88 and most of the patients were Worker (62.5%). The characteristics of the sample are shown in Table 1. The two groups were similar with respect to all variables (p > 0.05).

Disease and treatment related characteristics

The experimental group's median length of time since being given the diagnosis of cancer was 19.5 months ($\bar{x} = 19.5 \pm 24.56$, range 12-48 months) and the median treatment cycle was 3.85 ($\bar{x} = 3.85 \pm 2.79$, Range 2-10). The characteristics of the sample are shown in Table 1.

The control group's median length of time since being given the diagnosis of cancer was 21.6 months ($\bar{x} = 21.60 \pm 14.75$, range 12-60 months) and the median treatment cycle was $3.60 (\bar{x} = 3.60 \pm 3.09, \text{Range } 1-12)$. The

Table 1. Personal Characteristics and Disease Characteristics

	Exp	erimental	Control group		
	٤	group			
	n	%	n	%	
Gender					
Females	5	62.5*	2	20.0*	
Males	3	37.5*	8	*0.08	
Marital status					
Married	4	50.0*	6	60.0*	
Single	4	50.0*	4	40.0*	
Education level					
Primary school	2	25.0*	3	30.0*	
High school	3	37.5*	4	40.0*	
University	3	37.5*	3	30.0*	
Occupation					
Worker	3	37.5*	6	60*	
Non- Worker	5	62.5*	4	40*	
Diagnosis					
Sarcoma	3	37.5*	6	60*	
Genito-urinary cancer	3	37.5*	3	30*	
Other	2	25.0*	1	10*	
Radiotherapy					
No	4	33.3*	8	66.7*	
Yes	4	66.7*	2	33.3*	
Chemotherapy protocol					
Paclitaxel+Cisplatin	5	62.5*	3	30*	
ifosfamide	3	37.5*	7	70*	

^{*} Percent of intra-group

Table 2. The Effect of Distant Reiki on Pain, Anxiety and Fatigue

	Experimental				t	p	Control				t	p
	Pre-test		Last Test				Pre-test		Last Test			
	$\overline{\mathbf{x}}$	±sd	$\overline{\mathbf{x}}$	±sd			$\overline{\mathbf{x}}$	±sd	$\overline{\overline{\mathbf{x}}}$	±sd		
Pain	3.62	1.06	2.00	0.75	9.66	< 0.0001	3.70	2.75	4.20	2.69	4.25	0.002
Stress	4.25	1.98	1.37	0.74	6.06	0.001	4.30	2.89	4.90	2.42	4.73	0.001
Fatigue	2.87	0.83	1.75	0.70	9.74	0.001	2.70	1.76	3.80	2.25	4.83	0.001

characteristics of the sample are shown in Table 1. The two groups were similar with respect to all variables (p>0.05).

The degree of pain

In the first assessment experimental group's mean pain score were 3.62±1.06 and control mean pain score were 3.70±2.75. After Reiki practice experimental group's mean pain score 2.00±0.75. We make no attempt to control group. We assessment control group's mean pain score and experimental group's pain score at the same time and then we have seen that control group's mean pain score increased (4.20±2.69). The control group was observed that increased levels of pain (p=0.002), it was observed that the experimental group decreased pain intensity (p <0.0001) (Table 2).

The degree of stress

In the first assessment experimental group's mean stress score were 4.25 ± 1.98 and control mean stress score were 4.30 ± 2.89 . After Reiki practice experimental group's mean stress score decreased (1.37 ± 0.74) and control group's mean stress score increased (4.90 ± 2.42) . The control group was observed that increased levels of stress (p=0.001), but the experimental group's stress score (p<0.001) (Table 2).

The degree of fatigue

In the first assessment experimental group's mean fatigue score were 2.87 ± 0.83 and control mean fatigue score were 2.70 ± 1.76 . After Reiki practice experimental group's mean fatigue score decreased (1.75 ± 0.70) and control group's mean fatigue score increased (3.80 ± 2.25) . The control group was observed that increased levels of fatigue (p=0.001), But Reiki group's fatigue levels decreased (p<0.001) (Table 2).

Discussion

Cancer has increasingly been recognized as a chronic illness involving a series of changing threats and difficulties (Tsang et al., 2007) so that fatigue, stress and pain is a common symptom among cancer patients. Recent systematic review reported that Reiki can be effective treatment (Lee et al., 2008). Because of this study's aim was to determine to effect of distant Reiki on pain, anxiety and fatigue in oncology patients.

In our study, Reiki groups' pain score decreased and non Reiki groups pain score increased. So the study showed that Reiki decreased the pain level. A study with cancer patients showed that Reiki is not effective on pain (Olson et al., 2003). A study showed that to Reiki reduction of 50% in mean scores of pain after each chemotherapy treatment (Birocco et al., 2012). Another study reported that Reiki decreased pain, depression, and anxiety in chronically ill people (Dressin and Singg, 1998). These results suggest that Reiki treatments are moderately effective at reducing pain levels.

We found that Reiki decreased the stress score in oncology patients. A study demonstrated that physical stress decreased after 20 minutes of Reiki; while mental stress was not reduced by other therapies (Witte and Dundes, 2001). Another study reported that distance Reiki reduction depression and stress (Shore, 2004). As same as another study reported that Reiki reduced physiological effects of stress (Baldwin et al., 2008). In another study reported that Reiki there were persuasive reductions in the total Stress Scale score which were greater than in the Non Reiki group (Bowden et al., 2010). This preliminary study and our study supports Reiki may be useful in reducing the anxiety, stress response and promoting relaxation (Vitale, 2007; Miles, 2003; Bullock, 1997; Barnett and Chambers, 1996).

Our data showed that Reiki decreased the fatigue level in oncology patients who are lying in the hospital for treatment. A study reported that fatigue decreased within the Reiki session over seven treatments compared with the rest session, but Reiki wasn't significantly decreased fatigue level (Tsang et al., 2007). There are a little study so there is a need for future studies.

This study is limited by small sample sizes, lack of comparison groups. Although patients are admitted to Istanbul University Institute of Oncology from all regions of Turkey, the study results may not be generalizable to all Turkish cancer patients.

In our study showed that Reiki is a effective management on pain, stress and fatigue. There are only a few studies with Reiki and needs to be done a lot of study on this subject in the future. There is limited evidence as to their efficacy for symptom management, including reducing pain and fatigue but Deng et al. recommendation Reiki for reducing anxiety, pain and fatigue (Deng et al., 2009).

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