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Home > Archives > Volume 20, No 17 (2022) > Article

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Effective Of Progressive Muscle Relaxation (PMR), Aromatherapy, And Combination Of PMR And Aroma Therapy On Depression Level In The Elderly

Soep, Agussalim

Abstract

Background: Depression is a common mental health problem that is most commonly found in the elderly. One approach that can be done in reducing the depression score of the elderly is through psychotherapy such as progressive muscle relaxation therapy, aromatherapy treatment, and a combination of progressive muscle relaxation therapy and aromatherapy. Purpose: To determine the effect of Progressive muscle relaxation (PMR) therapy, aromatherapy therapy, and a combination of PMR therapy and aroma therapy on the level of depression in the elderly at the UPT social services for the elderly and children under five in the Binjai area. Research method: This research is a quasi experiment with a pre-post test control-group design approach. This study consisted of 4 groups with a total sample of 18 elderly people in each group. The first group is the control group, the second group is the elderly with progressive relaxation therapy, the third group of elderly with aromatherapy therapy, the fourth group of elderly with progressive muscle relaxation-aromatherapy combination therapy. The instruments in this study were questionnaire sheets and observation sheets. Statistical tests using the Wilcoxon test to determine differences in pre and post treatment, and the Kruskal Wallis test to determine differences in the four groups, if there is a difference, it is continued with the Post Hoc test, namely the mann-whitney test to determine the group that has the most effect on reducing depression levels. Results: There is a significant difference in depression levels before and after progressive muscle relaxation therapy (P<0.05). There is a significant difference in depression levels before and after the provision of aroma therapy (P<0.05). There is a significant difference in the level of depression before and after the combination of progressive muscle relaxation-aroma therapy (P<0.05). There is a difference in the level of depression in the four groups (P<0.05), Post-Hoc test obtained there is a difference in the level of depression in the progressive muscle relaxation therapy group and combined therapy of progressive muscle relaxation-aroma therapy compared to the control group. Conclusion: Progressive muscle relaxation therapy and combination therapy of progressive muscle relaxation-aroma therapy have an effect on reducing depression levels in the elderly.

Keywords

Depression, Progressive muscle relaxation (PMR), Aromatherapy, Elderly.

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Neuroquantology | November 2022 | Volume 20 | Lesus 17| Fago 1200-1305| Don 10 40047/NG 2022 20 17 Https://doi.ii Soep, Agostalin, Effective of Progressive Muscle Relaxation (PMR), Aromatherapy, and Combination of PMR and Aroma Therapy on Degrassics Level in the Elderty



PMR And Aroma Therapy On Depression Level (PMR), Aromatherapy, And Combination Of Effective Of Progressive Muscle Relaxation In The Elderly

Soep1, Agussallm2*

Abstract

relaxation therapy and aromatherapy. progressive muscle relaxation therapy, aromatherapy treatment, and a combination of progressive muscle approach that can be done in reducing the depression score of the elderly is through psychotherapy such as Background: Depression is a common mental health problem that is most commonly found in the elderly. One

for the elderly and children under five in the Binjai area. combination of PMR therapy and aroma therapy on the level of depression in the elderly at the UPT social services Purpose: To determine the effect of Progressive muscle relaxation (PMR) therapy, aromatherapy therapy, and a

mann-whitney test to determine the group that has the most effect on reducing depression levels. determine differences in the four groups, if there is a difference, it is continued with the Post Hoc test, namely the tests using the Wilcoxon test to determine differences in pre and post treatment, and the Kruskal Wallis test to combination therapy. The instruments in this study were questionnaire sheets and observation sheets. Statistical aromatherapy therapy, group, the second group is the elderly with progressive relaxation therapy, the third group of elderly with study consisted of 4 groups with a total sample of 18 elderly people in each group. The first group is the control Research method: This research is a quasi experiment with a pre-post test control-group design approach. This the fourth group of elderly with progressive muscle relaxation-aromatherapy 129K

therapy (P<0.05). There is a significant difference in the level of depression before and after the combination of relaxation-aroma therapy have an effect on reducing depression levels in the elderly. control group. Conclusion: Progressive muscle relaxation therapy and combination therapy of progressive muscle relaxation therapy group and combined therapy of progressive muscle relaxation-aroma therapy compared to the groups (P<0.05), Post-Hoc test obtained there is a difference in the level of depression in the progressive muscle progressive muscle relaxation-aroma therapy (P<0.05). There is a difference in the level of depression in the four therapy (P<0.05). There is a significant difference in depression levels before and after the provision of aroma Results: There is a significant difference in depression levels before and after progressive muscle relaxation

Keywords: Depression, Progressive muscle relaxation (PMR), Aromatherapy, Elderly,

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INTRODUCTION

Depression is a common problem in the elderly. Depression is associated with poor outcomes with increased risk of disability, slow recovery from illness and death. Approximately 12%-

20% of the elderly population has symptoms of depression. Depressed elderly have poorer health status, higher prevalence of disability and more severe comorbidities and even increased mortality.[1]

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overall sociodemographic factors contributed colleagues found a 15.8% prevalence of major aged 65 years or older to be around 1% (0.4% health problem, resulting in impaired physical number of dependent children. [3] respondents were not married, female and the depression Sociodemographic reported.[2] Wirasto et al (2007) stated that Cache County, Utah, depression in the elderly of all age groups in the prevalence of major depression in those **Epidemiologic Catchment Area Study reported** National Depression in the elderly is a serious public men, depression in and social functioning that places a on families and communities. The 1.4% Institute Ξ = the factors associated the elderly by women). Steffens higher than previously of elderly Mental who 19.2%. Health were with and

The World Health Organization data shows that at the end of the 20th century, the increase in the world's population led to an increase in the number of senior citizens aged 65 years or older. The number of elderly population in Indonesia in 2020 will be the 4th largest in the world after China, India, and the United States.

Nursing interventions that can be given to patients with depression are individual therapies such as cognitive therapy, behavioral therapy, thought stopping, Progressive Muscle Relaxation (PMR), and other relaxation methods such as lavender aroma therapy. [5]

stimulate brain signals that cause muscles to and peace of mind. [7] According to Purwanto (2007), PMR can relax and increase blood flow to the brain.[6] stimulate sensation, and stopping the tension and then focusing on moderation so as to provide emotional balance the blood, restore the release of hormones in the body, reduce the production of cortisol in provide a smooth massage on various glands in (relax), happiness (euphoria) and are able to enkephalin chemicals that cause a sense of calm Progressive namely by applying tension to a muscle group muscle relaxation therapy through two steps, Progressive Muscle Relaxation is a form of the the muscle relaxes, feels and Muscle Relaxation (PMR) release the tension of endorphin disappears. 2 relaxed and

Several studies reveal the benefits of PMR

therapy, such as research conducted by Resti (2014) proving that it can reduce stress and stress symptoms in asthma sufferers. [8] Rahman (2014) reported that PMR therapy has a significant effect on the quality of elderly sleep. Furthermore, Supriati et al (2014) proved that PMR therapy with a combination of thought stopping can reduce anxiety in clients with physical disorders compared to groups that are only given therapy alone. [10] Tobing (2012) reported that PMR therapy with a combination of logotherapy can reduce anxiety, depression and increase relaxation and the ability to make meaning of life compared to groups that are only given logotherapy therapy alone in cancer clients. [6]

nerve cells and affecting the work of the limbic commonly used in lavender aroma therapy system aroma therapy works by stimulating olfactory psychotherapeutic from flowers and woods have therapeutic and spirit.[11] Based on research, various aroma oils health and well-being of the body, mind, and Eucalyptus because of feelings.[13] Some of the essential oils that are therapy plant essence that aims to improve the healing process that uses pure lavender aroma Lavender aromatherapy is a form of relaxation (Eucalyptus). therapy. Lavender aroma therapy is an ancient by increasing positive their versatility are (Eucalyptus), properties.[12] and and Eucalyptus geranium, Lavender relaxed 1299

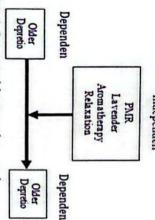
(2012)essentials.[11] According to Merdikawati et al Some essential oils that are commonly used in relaxation.[12] versatility head, and this frequency of alpha waves in the back of the (eucalyptus lavender Lavender aroma aroma therapy are state geranium, lavender, is can increase because associated and eucalyptus 2 their rose

Laura et al (2015) proved that lavender aroma therapy has a significant effect on sleep quality in post partum mothers.[14] Furthermore, Merdikawati et al (2012) stated that lavender aroma therapy can reduce anxiety in adolescent girls who experience pre menstrual syndrome.[12] Arwana et.al (2013) confirmed that the administration of lavender aroma therapy can reduce the anxiety of patients before spinal anesthesia surgery. [The results of a preliminary study conducted in December

at the UPT Social Services for the Elderly and appetite and lack of concentration. insomnia, despair, Toddler Children in Binjai and Medan, found 2016 through interviews with 20 elderly people some elderly sadness, laziness, people complained lack of of

Social Services for the Elderly and Toddler reducing depression in the elderly at the UPT of in the Binjai and Medan regions. Therefore, combination on reducing depression in the PMR therapy, lavender aroma therapy and their Children. therapy and the combination of effectiveness researchers are services for the elderly and children under five elderly has never been carried out at UPT. Social Based on this background, research related to of interested in examining the PMR and lavender aroma both

Conceptual Framework Independen



Gambar 1. Conseptual framework research

Method of Research

four groups, namely the first group, namely the combination treatment. fourth group with PMR-lavender aromatherapy group with PMR treatment, the third group with control group (without treatment), the second intervention group. In this study there were pre-post-test control-group design, namely by This research type is a quasi experiment, with a lavender aromatherapy comparing pretest and posttest values in the treatment, and

and children under five. This research was elderly at the UPT social services for the elderly conducted at the UPT Social Services for the therapy and aroma therapy on depression in the This study aims to determine the effectiveness Medan Regions. The research time started on Elderly and Toddler Children in the Binjai and Progressive Muscle Relaxation

> August as 180 people. population in this study were all elderly people Toddler Children in Binjai and Medan as many at the UPT Social Services for the Elderly and 18 6 September 2017.The

second treatment, namely after the therapy, depression was measured again. depression was measured and at the end of the treatment, for 6 consecutive days. At the beginning of the therapy, the third group gets lavender aromatherapy Progressive Muscle Relaxation (PMR) therapy, people. The first group is a control group, divided into four groups, each group totaling 18 obtained, all of which were used as samples and Research Sampling is using purposive sampling technique, a sample of 72 respondents was aromatherapy. The treatment was carried out Muscle Relaxation (PMR) exercise and lavender combination therapy, group of and namely the elderly people by fourth before namely group the Progressive therapy, gets getting

measurement results of a data by describing significant if P < 0.05. the most effect on reducing depression with namely to determine the intervention that has test as well as comparing between groups Wilcoxon test is used to determine the effect of formulated using the SPSS version 19 program. the truth of the hypothesis that has display. While bivariate analysis aims to prove form of a mean and then analyzed on the data each data. In this study, bivariate analysis. Univariate analysis is used to the Post-Hoc test is continued, namely the Mann Kruskal Wallis analysis. If there is a difference, treatment in one group with pre-test and postdepression measurements are displayed in the Analysis the of data frequency is using univariate difference distribution the is results of the been and 0 1300

RESULT RESEARCH

Tabel 1. Characteristics of Respondents at the UPT Social Services for the Elderly and Toddler Children in the Binjal

					*				w						**				-	No
Total	>66	61-65	56-60	51-55	Age	Total	Christian	lulam	Religion	Total	Minangkabau	Melayu	Batak	JAVA	Ethnics	Total	Male	Female	Sex	503
72	23	28	14	7		72	19	53		72	10	17	19	26		7.2	33	39	Charles and commences of the commences o	Frekuenion
100%	31.94	38,89	19.44	9.73		100%	26.39	73.61		100%	13.69	23.61	26.39	36,11	ADDRESS OF THE PARTY OF THE PAR	100%	45.03	84,17	and the second section of the second	Presentation (%)

Based on the table above, it is known that the characteristics of respondents in this study are mostly female, Javanese ethnicity, Muslim religion, and age range 61-65.

Tabel 2. Depression Level of the Control Group in the elderly at the UPT Social Services for the Elderly and Toddler Children Binjai Region

Level	Meas Meas	Beginning of Measuremen	End Mean	End of Measurem	Value P
	77	%	7	%	
Not Depression	4	22.2	u	27, B	2
Low Depression	14	77,8	13	72.	7150
Total	18	100	18	100	

The table above shows that the level of depression at the end of the measurement compared to the beginning of the measurement obtained a P value of 0.317 (P>0.05). This indicates that there is no significant difference in the level of depression between the beginning of the measurement and the end of the measurement in the control group.

Progressive Muscle Relaxation (PMR) Therapy Group

Tabel 3. Effect of Progressive Musde Relaxation (PMR) Therapy on Depression Levels in the elderly at the UPT Social Services for the Elderly and Toddler Children Bispai Region

Total	Low Depression	Not Depression	TO SERVICIO DE LO CONTROL DE LA CONTROL DE L	Level Depression
18	15	3	P	1 1 2 2
18 100	83.3	16,7	3,6	of Measurem ent
18 100	-	14	,	- 4 5
100	22.2	77.8	3/6	End of Measuremen
	4 6 57 6	0000	The sales of the sales	Value P

Berdasarkan tabel di atas, sesudah dilakukan terapi PMR diperoleh nilai P sebesar 0,003 (P<0,05), yang berarti terdapat perbedaan tingkat depresi yang bermakna antara sebelum dan sesudah terapi PMR.

Kelompok Aroma Terapi Lavender

Tabel 4. The Effect of Lavender Aroma Therapy on Depression Levels in the elderly at the UPT Social Services for the Elderly and Toddler Children in the Binjai Region

Level Depression	ent of Beg	Beginning of Measurem ent	end Mean	End of Measuremen	Value P
	F	%	F	%	
Not Depression	2	11,1	11	61,1	200
Low Depression	16	88.9	7	38,9	0,000
Total	18	100	18	100	

1301

Based on the table above, it shows that the level of depression after lavender aromatherapy therapy compared to before aromatherapy therapy obtained a P value of 0.003 (P <0.05), which means that there is a significant difference in depression levels between before and after lavender aromatherapy therapy.

Combination therapy group of Progressive Muscle Relaxation (PMR) and Lavender Aromatherapy

Tabel 6. The effect of PMR Aromatherapy layender combination therapy out depreasion levels in the elderly at the UPT bastal betwices for the folderly and Toddler

Judy to Hinley Kellion Tutal Depression Debitemen - 6 = 7 HEATHER Believing DID 13.3 11.0 16 = HEARINGHIER 100 10.07 11,11 * 0,004 Value

The table above shows that the level of depression after combined PMR-aromatherapy depression after combined PMR-aromatherapy lavender therapy obtained PMR-aromatherapy lavender therapy obtained PMR-aromatherapy (P <0.05), which means that there is a significant difference in depression levels between before and after combined PMR-aromatherapy lavender therapy.

Tabel 6. The Effectiveness of PMR Therapy, Lavender Aromatherapy Therapy, and Combination PMR-Aromatherapy Therapy, and Combination PMR-Aromatherapy Lavender Therapy in Reducing Depression Levels Compared to the Control Group in the Elderly at the UPT Social Services for the Elderly and Toddler Children Binjai Region,

5 27,8 14 77,8 11 61,1 15	14 77.8 11 61.1 4 22.2 7 88.5	Consender	1 8	Mens Jenan	1 1 2	PMR Treatment	Lavender Argmathe	Monatherapy	Combination Treatment &	Contination PMS Treatment & Lavender Avorratherapy
	13 72.7 4 22.2 7 88.5	12	- -	27.8	= =		= -	2 ×	i2 -	# ×
	13 72,7 4 22.2 7 58,5	pelblesiou PM	45	17,8	T		=	62	2.2	

determine the therapy that had the most effect conducted, namely the Manny whitney test to therapy, lavender aromatherapy therapy, and value of 0.003 (P < 0.05), which means that measurement of the four groups obtained a P on reducing the level of depression as shown in combined between the control group, the group with PMR depression The table above shows that the comparison of Furthermore, a difference in PMR levels lavender 16 a post-hoc the depression levels end aromatherapy test was



Picture 2. The Effectiveness of PMR Therapy, Lavender Aromatherapy Therapy, and Combination PMR-Aromatherapy Lavender Therapy in Reducing Depression Levels Compared to the Control Group in the Elderly at the UPT Social Services for the Elderly and Toddler Children Binjai Region.

ISCUSSION

Binjai incidence of depression, the worse the family Muna et al. (2013) state that older age, female than those who live with their families, although severe depression are more in Nursing Homes than those who live in Nursing Homes, however, elderly, who live with their families is greater stated that the proportion of depression in the them suffered from depression, even 40% of depression,[16] Siboro and Rusdi (2012) state living Muna (2013) states that 60% of elderly people measurement experienced mild elderly people in UPT Pelayanan, Social Services The research results obtained the majority of Nursing Homes, elderly who feel lonely will be influential on the elderly who live in Werda communication pattern factor depression increases in communication communication incidence and level of depression.[16] According gender, and basic education factors affect the this difference is not statistically significant, [18] based on the level of depression, elderly with Meanwhile, Pradnyandari and Diniari (2013), them, suffered from severe depression. that of the 76 elderly who were sampled 35 of very susceptible to depression [17]. Siboro Region Elderly and Toddler Children in the and nursing at factors, pattern, the Rusdi homes greatly beginning the the (2012),elderly. is incidence depression. experience affect also 9 family very [17] This the 0

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Based on the results of the study after giving progressive muscle relaxation therapy, it was found that there was a decrease in the level of depression in the elderly and statistically there

elderly,[21] therapy on reducing depression levels in the an effect of progressive muscle relaxation Unit,[20] Sholihah (2015) confirms that there is at the Pandaan Social Elderly Social Service decrease in the depression score of the elderly significant effect on. The occurrence of progressive muscle relaxation therapy has a (2011) also obtained similar results, namely Pakem Sleman Social Home Yogyakarta, [19] states that progressive relaxation techniques research conducted by Palupi (2015) which relaxation therapy. This research is in line with Research conducted by Windarwati et al. have an effect on the level of depression in the depression before and after giving progressive was a significant difference between the level of at the Tresna Werdha Unit Abiyoso a

Progressive muscle relaxation therapy is a technique that focuses on a muscle activity by identifying tense muscles and then reducing tension by performing relaxation techniques to get a feeling of relaxation.

In progressive muscle relaxation exercises the elderly are asked to tense the muscles with a certain tension and then relax them. Before being relaxed, the tension is felt first so that individuals can distinguish between tense and limp muscles (Setyohadi and Kushariyadi, 2011).

depression (Amila, 2014). This will have an impact on reducing the level of secretion of ACTH and cortisol also decreases. to stop the secretion of CRH, muscle relaxation will inhibit the hypothalamus neuroanatomic activity will be lowered. This skeletomuscular neural input and activity muscle tension. This is to maintain health and parasympathetic nerves for metabolism and can reduce neural reflexes that can reduce mental balance. According to Jacob, relaxation Relaxation can affect the hypothalamus respiration to reduce oxygen consumption and Furthermore, according to so that the Jacob, and

In this research, there was a significant decrease in depression levels after being given aromatherapy therapy. Based on the literature search conducted by researchers, there has been no similar research, but aromatherapy therapy has been widely used in handling insomnia and lowering blood pressure in the elderly. Adiyati (2010) stated that

stated that aromatherapy can improve sleep quality and reducing blood pressure in the the degree of insomnia in the elderly^[22] Kurnia aromatherapy therapy can significantly reduce elderly characteristics of depression. Improving sleep Kulsum (2017)[25] and Soraya et al quality in the elderly. Furthermore, Marina and depression in the elderly. reducing high blood pressure. Insomnia hypertension lavender aromatherapy in the elderly that the administration (2009)^[23] and Foerwanto et al. (2016)^[24] pood Will have has a significant effect pressure an effect on reducing are one of rose (2014)[26] With and and the 9

stimulation, and provide a feeling of relaxation [27] (Taylor et al., 2005). inhaled, it is absorbed by the body through the vapor containing these chemical components is for the integration and expression of feelings, limbic system of the brain which is responsible bloodstream. The scent of fragrances such as lavender scent learning, inhaled, the vapor molecules will affect the into the air are as water vapor. When water memory in humans. The brain, which is associated with emotional and has a sensitive effect on the limbic system in the and lungs memory, When aromatherapy and emotions, then molecules released enters vapor physical 1303

with rhythm from beta (alert) to alpha (relaxed) In this research, giving a combination therapy of al., 2015) happiness [22] (Adiyati, 2010 and Maghfirah et aromatherapy therapy which according to the role in stress conditions. The decrease secretion of the hormone cortisol which plays a parasympathetic nerves and also inhibiting the depression. Relaxation can change the brain muscle relaxation therapy can work together depression levels in the elderly. Progressive aromatherapy progressive muscle endorphin is a hormone that provides a sense of production of endorphin hormone. Hormone literature, depression levels will be aromatherapy can aromatherapy reduce can relaxation therapy therapy anxiety significantly can increase strengthened by ij activating reducing reduce

This research also examines the therapy that has the most effect on reducing depression. Based on the Kruskal Wallis test, the p value

leased a compared to the control gringe Parthernies, the Past Hat rest found that PMI differences in the land treatments in rethicing mercapy can distribute and referred to herapy and table mountherapy (untilinated post of depression district of that their 7 MANY

therapy to Mile theraps, namely the book of depression in the manatherapy primp to all THE MANAGEMENT OF A. (BIS) terpresent to the provider of the ting, and place and expression of depression in the otherly. etimetherapy therapy has not been Ade to when competed to the control plant, laventhe has anne as the control prosp, which means that admitted by the second second (Secondary) THE THE THE THE A PUBLISH OF THE PARTY OF Franchist any combination therapy are able to that, or the the men (the rother tension to before section will be tender when compared to the towerer, the The statistical results about that the book of Minimps III has upon soil, doubt progress reside will be different if therapy ALL A Firther ing

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