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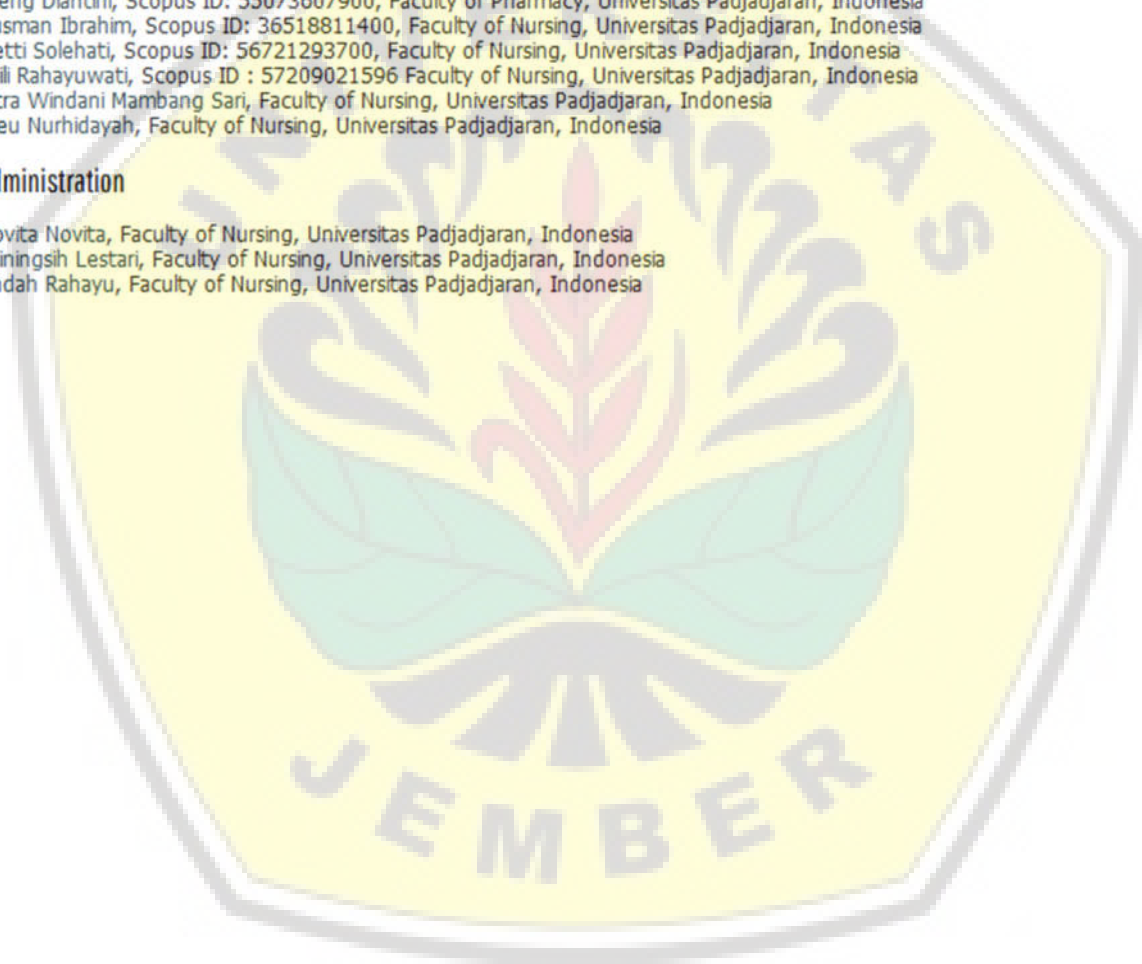


Table of Contents

Articles

Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress DOI : 10.24198/jkp.v7i3.988 Auth. <i>Kushariyadi Kushariyadi, Grysha Viofananda Kharsima Ade Agung, Faizatul Mazuin, Fitriany Fitriany</i>	
Tera Gymnastic Effective For Patient With Hypertension DOI : 10.24198/jkp.v7i3.991 Auth. <i>Hesti Platini, Sandra Pebrianti, Indra Maulana</i>	
Relationship Between Workload Performance and Job Satisfaction DOI : 10.24198/jkp.v7i3.1178 Auth. <i>Asma Safdar, Fransisca Sri Susilaningsih, Titis Kurniawan</i>	
An Exploration the Risk of Cardiovascular Disease in HIV-Positive Persons in Indonesia using Heart Rate Variability DOI : 10.24198/jkp.v7i3.1199 Auth. <i>Linlin Lindayani, Irma Darmawati, Heni Purnama, Pujowati Pujowati, Taryudi Taryudi</i>	
Knowledge, Attitude and Practice of Evidence-Based Nursing Practice and Barriers DOI : 10.24198/jkp.v7i3.884 Auth. <i>Dwi Novrianda, Hermalinda Herman</i>	
Determinant Factors of Depression in Patients with Coronary Heart Disease DOI : 10.24198/jkp.v7i3.1194 Auth. <i>Aan Nur'aeni, Ristina Mirwanti, Anastasia Anna, Ikeu Nurhidayah</i>	
Relationship External Factors with Internet Addiction in Adolescent Age 15-18 Years DOI : 10.24198/jkp.v7i3.1105 Auth. <i>Masdum Ibrahim, Suryani Suryani, Aat Sriati</i>	
The Different of Finger Handheld and Deep Breathing Relaxation Techniques Effect on Reducing Heart Rate and Stress Levels in Primary Hypertension Patients DOI : 10.24198/jkp.v7i3.996 Auth. <i>Arif Setyo Upoyo, Agis Taufik</i>	
Characteristics of Patients, Self-Efficacy and Quality of Life among Patients with Type 2 Diabetes Mellitus DOI : 10.24198/jkp.v7i3.1175 Auth. <i>Karina Megasari Winahyu, Revi Anggita, Giri Widakdo</i>	

Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress

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Abstract

The condition of nursing faculty students has many academic tasks such as attending classes, taking exams, socializing, adjusting to fellow students with different characteristics and backgrounds, developing talents and interests through non-academic activities. This condition causes students to not be able to manage time well so that they experience distress. Quasy experiment research used two groups pre-post-test design. The sample included 15 control groups and 15 treatment groups. The sampling technique uses simple random sampling. Research variables include spiritual deep breathing therapy and distress rate. The instrument uses depression anxiety stress scale-42 (DASS-42) in the form of a Likert scale. This type of unfavorable questionnaire contains 42 questions. The spiritual instrument deep breathing therapy is about 20 minutes a day for seven days. Statistical test using Wilcoxon signed rank test against both groups. There was a significant effect on the treatment group (p-value 0.001). In the control group there was no effect (p-value 0.263). Distress conditions in a person can be overcome with one therapy such as spiritual deep breathing therapy. Spiritual deep breathing therapy as a therapy for nursing modalities can optimize oxygen demand for cells that are distressed, blood flow to the muscles decreases otherwise blood flows to the brain and skin increases so as to provide a sense of warmth, comfort and calm.

Keywords: Distress, nursing modality therapy, spiritual deep breathing therapy.

Kushariyadi: Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress

Introduction

The condition of students Faculty of Nursing, University of Jember have the academic demands such as attending class, obeying the exam, socialize, adapt to the characteristics and fellow students of different backgrounds, develop their talents and interests through non-academic activities. Students cannot manage time well so experiencing distress.

The prevalence of distress in students in North America by 100 respondents (38%) (Shannone, 1999). The prevalence of distress in students in the UK as many as 165 respondents (31.2%) (Firth, 2004). The prevalence of distress in students in India as much as 180 respondents (34%) (Kumar, 2011). The prevalence of distress in students in Saudi Arabia of 494 respondents (57%) and in Malaysia as many as 396 respondents (41.9%) (Sherina, 2004). The prevalence of distress in students in Indonesia in University of Jember Health Services Unit as many as 79 respondents (75.9%) (Wahyuni, 2015). The prevalence of distress at Faculty of Medicine University of Jember students categorized as moderate stress were 107 respondents (57%) (Evanda et al., 2014).

The cause of distress among other demands of academic life, social, and personal (Dyrbye et al., 2006 in Jaisoorya et al., 2017). Lots of activities and tasks, environmental changes, loss of social support, academic pressure, relationships with peers, and financial problems into soulmate factor causes distress (Azzahra, 2017). The bad interpersonal relationship is the most common stress factors (Hashimoto, 2012). Factors that cause stress, according to research Saam (2006) of the Faculty of Medicine students of Riau are personal factors, family, school, and community. Personal factors include the inability to set the time, the monthly money runs out, exhausting themselves to study, friends are too often comes to renting, pain does not go away, trouble with friends, mood changes frequently, breakup, lack of affection from a lover, and breakup. Family factors include parents divorced, unfettered, parents quarreling, lack of affection and parents do not meet the wishes of children. Factors include the campus and piling too many tasks, to study for a full day, yet have

lecture materials, problems with teachers, professors do not understand the explanation, a full exam for one week. Community factors include isolation, protests or criticism, receive discrimination and bullying, the environment is not conducive.

Impact distress resulting in decreased concentration and school performance because burdened by campus and social life. Interpersonal stressful experiences lead to serious problems. Mental health problems like depression and anxiety cause stress interpersonal (Hashimoto, 2012). Severe distress cause auditory hallucinations that disrupt the central nervous system, stimulates the negative voices even endanger yourself and others (Ellet, 2017). Distress detrimental impact on physical and mental health cause spiritual distress individuals and families (Dewi, 2014). Decreasing the concentration of student learning therefore burdened campus and social life, as well as poor social interpersonal relationships. Another impact of distress such as hypovolemic shock, impaired tissue perfusion, energy use disorders, delayed wound healing, and the rate of metabolism disorders (Winkler et al., 2008).

One solution is to give students overcome distress spiritual deep breathing therapy. Therapy appropriately and regularly can give maximum results. Application of nursing modality therapy is useful for improving the quality of life and improve health (Sepdianto, 2008).

Method

The study was quasi-experiment using two group pre-posttest design. The study aims to determine the distress of students before and after giving nursing modality therapy spiritual deep breathing. Measuring the level of distress (pretest) in the treatment and control group respondents then provide intervention spiritual deep breathing therapy and re-measure the level of distress (posttest) in the treatment and control group respondents.

Total sample each treatment group and control as many as 15 respondents. The research using simple random sampling techniques. Inclusion criteria include: 1)

Kushariyadi: Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress

gender to male and female; 2) aged 18-21 years; 3) co-operative; 4) willing to become respondents; 5) actively enter the class; 6) can be measured stress level.

Place of research at the Faculty of Nursing, University of Jember August 2017.

The study used an instrument nursing modality therapy spiritual deep breathing. Adopting and modifying of research Benson (1974), entitled "your innate assets for combating stress" with spiritual therapy. This technique can relieve pain, insomnia, anxiety, and stress. Implementation of the therapy duration of 20 minutes per day for seven days.

Instruments distress using a questionnaire depression anxiety stress scale-42 (DASS-42) and has received permission from the author. The DASS-42 questionnaire is adapted from Matthews (2016), entitled "distress". Scale questionnaire Likert scale. Question unfavorable types. amounted to 42 of the questions. Rate each question: 1) value of 0 (no or never); 2) the value of (according to experienced up to a certain level, or sometimes); 3) value of 2 (common); 4) value of 3 (very appropriate with experienced, or

almost all the time). The final assessment: 1) the value 0-14 (normal); 2) value of 15-18 (mild stress); 3) value of 19-25 (moderate stress); 4) value of 26-33 (stress); and 5) the value of ≥ 34 (very severe stress).

Data collection and processing stages include: 1) conduct research and fill permit informed consent as a sign of willingness; 2) measuring the level of distress (pre-test) on the first day; 3) provide nursing intervention modality therapy spiritual deep breathing for 20 minutes on the first day until the seventh; 4) measuring the level of distress (posttest) after administration of nursing modalities therapy spiritual deep breathing on the seventh day; 5) analyze the research data using the Wilcoxon signed rank test with $p < 0.05$ towards treatment groups and control groups (Nursalam, 2008).

This study applies the ethics of research include: 1) research consent form; 2) anonymous; 3) safety and comfort; 4) confidentiality; 7) justice (Potter & Perry, 2006).

Results

Table 1 Characteristics of Respondents Based on Gender, Age and Heart Rate

No	Respondent Characteristics	Treatment		Controls	
		f	%	f	%
1	Gender				
	Female	8	53.33	7	46.67
	Male	7	46.67	8	53.33
2	Age				
	Young	10	66.66	12	80
	Adults	5	33.33	3	20
3	Vital signs				
	1. Blood Pressure				
	Normal	15	100	15	100
	Hypotension	0	0	0	0
	Hypertension	0	0	0	0
	2. Heart Rate				
	Normal	15	100	15	100
	Tachycardia	0	0	0	0
	Bradycardia	0	0	0	0
3. Respiratory Rate					
Normal	13	86.67	14	93.33	

Kushariyadi: Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress

Tachypnea	2	13.33	1	6.67
Bradypnea	0	0	0	0
4. Temperature				
Normal	10	66.67	14	93.33
Hyperthermia	3	20	0	0
Hypothermia	2	13.33	1	6.67

Test Results Wilcoxon Signed Rank Test

Table 2 Results of Wilcoxon Signed Rank Test in Treatment Group

Category	n	Median (min-max)	mean ± SD	p
Distress before the intervention	15	15 (7-27)	4.998 ±15.53	0.001
Distress after intervention	15	6 (4-14)	6.53 ± 2.850	

Table 3 Results of Wilcoxon Signed Rank Test in Control Group

Category	n	Median (min-max)	mean ± SD	p
Distress as a pre-test	15	13 (3-26)	6.307 ±13.07	0.263
Distress when the post-test	15	15 (5-23)	13.87 ± 5.330	

Table 4 Results of Mann Withney U Test

Category	n	Median (min-max)	p
Control Group	15	8 (3-26)	0.001
Treatment Group	15	15 (8-23)	

Characteristics of Respondents

Table 2 shows the mean of 15.53 distress before the intervention and after intervention by 6.53. The mean distress declined by 9.00. Results of the Wilcoxon test showed $p=0.001$ ($p<0.05$) means that there is a significant difference between prior to giving spiritual deep breathing therapy and after being given spiritual deep breathing therapy.

Table 3 shows the mean of distress as a pre-test of 13.07 and the current post-test of 13.87. The mean distress increased by 0.8. Results of the Wilcoxon test showed $p=0.263$ ($p>0.05$) means that there is no significant difference between the current pre-test to post-test time.

Table 4 shows results of Mann whitney statistical test between post treatment group and post control group showed $p = 0.001$ because the value of $p < 0.05$, it was

concluded that there was a difference in the administration of spiritual deep breathing therapy between treatment and control groups.

Discussion

Distress in Treatment Group

Table 2 shows a significant difference ($p=0.001$) were significant distress among college students before and after giving of spiritual deep breathing therapy. Looked at the results of the average value of student distress before giving treatment 15.53. After giving treatment mean value of student distress becomes 6.53. There is a decrease in mean values distress difference between pre-test and post-test of 9.00. This means giving spiritual deep breathing therapy effect on student distress.

Kushariyadi: Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress

Research in the Southern Illinois University School of Medicine, the USA in 2004-2006 proved that distress affects the performance of students from both academic and non-academic. Giving techniques stress reduction regularly and consistently to students in some medical schools can help overcome academic problems due to stress. The results of the study reported that the perception of anxiety, nervousness, doubt, and loss of concentration was decreased (Paul, 2007).

Research in Japan proves the use of techniques deep breath as a method to reduce tension and improve mood. Another method uses relaxation techniques of yoga and progressive muscle relaxation (Hayama, 2012).

Nurhadi & Nursalam study (2003) that the spiritual guidance of a positive impact on stress reduction clients who are hospitalized and clients with a terminal illness. Stress reduction impact on increasing the immune response so that clients can minimize secondary infections.

Research Valentina (2016) that there are significant deep breathing relaxation techniques with improved mood thereby reducing the level of stress in terms of evaluation self-reported as well as heart rate and salivary cortisol levels.

Harris Research & Coy (2003) that students can use breathing relaxation techniques to calm down during the exam. Students who meditate use breathing relaxation techniques showed significant improvement in academic achievement. Research Adams (2004) that the relaxation techniques helpful respiratory symptoms ward or response light flight associated with anxiety and distress include increased heart rate, respiration, blood pressure, muscle tension, and discomfort.

Use of the effect of relaxation therapy trivial but with the advantages of the technique that is fast, simple and involves minimal resources into appropriate solutions in all circles. Research shows this therapy is easy to learn (<10 minutes) and effectively used by all ages, especially children 5 years old. This therapy is easier to apply than the anti-stress therapy techniques others although the main obstacle is the inability flew children's describing health problems (Varvogli, 2011).

Respiratory effects in the student sample

show taking deep breaths can help reduce feelings of anxiety and stress, improve performance and concentration. Deep breathing can also reduce some symptoms of Parkinson's disease, epilepsy, posttraumatic stress disorder (PTSD), depression, hypertension and other chronic diseases. Breathing in is also useful as a simple motor skills disabilities rehabilitation (Valentina, 2016).

Based on the data characteristics of the respondents (pulse) that takes 10-20 minutes a day to achieve relaxation against stress. It is important in the relaxation program are 1) the repetition of a word, sound, prayer, thought, phrase or muscle movements; 2) re-focus and concentrate to repeat when the mind is disturbed. Evidently, if the pulse becomes stable because exfluks Ca²⁺ + which make increased vascular permeability that gives the effect of comfortable, relaxed, and calm.

Data characteristics of the respondents (respiratory rate) that appear regular or irregular rhythm in the treatment group. This suggests that there is feedback response in the hypothalamus secrete ACTH which will lower cortisol production, thereby reducing the striated muscle contraction lungs that provide the quiet and comfortable effect.

Conclusion

There is a decrease in distress before and after nursing modalities therapy spiritual deep breathing in the treatment group. No decrease in distress as a pre-test and post-test in the control group.

Nursing modalities therapy spiritual deep breathing is a technique that combines a breath in the spiritual aspect of the method that begins the prayer so as to calm the mind and have a positive impact and a sense of comfort to the body cope with stress. The benefits of deep breathing spiritual therapy is indeed not directly felt in all therapy but it should be continued so that it will provide a fresh effect, comfortable, relaxed in students so that they can improve learning achievement. Need the active participation of students to use these therapies independently so that decrease stress levels are visible.

Kushariyadi: Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress

References

Adams, J. (2004). Straining to describe and tackle stress in medical students. *US National Of Medicine: Medical Education*, 38, 46-64. doi: 10.1111/j.1365-2929.2004.01810.x. <https://www.ncbi.nlm.nih.gov/pubmed/24904226>.

Abdullah, M. A., Alauda, A. H., & DeBoer, B. J. (2014). Stress management in dental students: a systematic review. *US National Library Of Medicine*, 5,176. doi: 10.2147/AMEPS46211. <https://www.ncbi.nlm.nih.gov/pubmed/24904226>.

Ambarwati, F. R., & Nasution, N. (2012). *Book smart: mental health nursing*. Yogyakarta: Diandra Prima Mitra.

Azzahra, F. (2017). Effect of resilience against psychological distress in mahasiswa. *Jurnal Scientific Psychology*, 5(01), 80-81. <http://ejournal.umm.ac.id/index.php/jipt/article/view/3883/4336>.

Benson, H. M. D., Greenwood, M. M., & Klemchuk, H. (1974). The Relaxation Response: Psychophysiologic Aspects and Clinical Applications. *The International Journal of Psychiatry in Medicine*. Sage Journals. (1) March 1, 1975. <https://doi.org/10.2190/376W-E4MT-QM6Q-HOUM>.

Brecht, G. (2000). *Recognizing and addressing stress*. Jakarta: PT Prenhallindo.

Brunner & Suddarth. (2001). *Medical-Surgical Nursing*. Ed. 8 (2). Jakarta: EGC Medical Book.

Carlson & Dwight, L. (2004). *Overcoming fatigue and stress*. Yogyakarta: Andi Offset.

Carr, D., & Umberson, D. (2013). The social psychology of stress, health, and coping. In DeLameter, J. & Ward, A. (Eds.3), *Handbook of Social Psychology*. Netherlands: Springer.

Chrousos, G. P., & Gold, P. W. (1992). The concepts of stress and stress system disorders: an overview of physical and behavioral homeostasis. *Journal of the American Medical*

Association, 267(9), 1244-1252. <https://www.ncbi.nlm.nih.gov/pubmed/1538563>.

Dempsey, Patricia, D. & Arthur. (2006). *Nursing Research*. Jakarta: EGC Medical Book.

Dewi, S. (2014). *Gerontik Nursing Textbook*. Issue 1. Yogyakarta: Lee publish

Ellet, L., Luzon, O., & Abbas, Z. (2017). Distress, omnipotence, and responsibility beliefs in command hallucinations. *British Journal of Clinical Psychology*, 56(3), 1-7. doi: 10.1111/bjc.12139. <https://www.ncbi.nlm.nih.gov/pubmed/28493561>.

Evanda, B., Alif, M., & Rony, P. (2014). Factors affecting internal stress on the student force Jember University School of Medicine in 2014. Faculty of Medicine: University of Jember.

Firth, L. D. J., Mellor, K. A., Moore, C., & Loquet. (2004). How Managers Can Reduce Employee Intention to Quit?. *Journal Of Managerial Psychology*: 19 (2): 17-187. www.emeraldinsight.com.

Goldenson, R. M. (1970). *The encyclopedia of human behavior*. New York: Doubleday and Company Inc.

Grasha, A. F., & Kirschenbaum, D. D. (1980). *Psychology of adjustment and competence*. Cambridge, Massachusetts: Winthrop Publisher, Inc.

Hamdi, I. (2016). Depending UI student killed, police make sure suicide. Published on May 31, 2016, excerpted from <http://m.tempo.co/read/news/2016/05/31/064775501/mahasiswa-ui-tergantung-polisi-pastikan-bunuh-diri>.

Harris, H. L., & Coy, D. R. (2003). Helping students cope with test anxiety. *ERIC Digest* (ED479355). Taken from storage <http://eric.ed.gov/ERICDocs/data/ericdocs2/content01/0000000b/80/2a/3a/0c.pdf>.

Hashimoto, T., Mojaverian, T., & Kim, H. S. (2012). Culture, interpersonal stress, and

Kushariyadi: Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress

- psychological distress. *Journal of Cross-Cultural Psychology*, 43(4), 527-532. doi: 10.1177/0022022112438396. <http://journals.sagepub.com/>.
- Hawari, D. (2001). Management of stress, anxiety, and depression. Jakarta: FKUI.
- Hayama, H. R., Vilberg, K. L., & Ruqq, M. D. (2012). Overlap between the neural correlates of cued recall and source memory: evidence for a generic recollection network?. *J Coqn Neurosci*. 2012 May, 24(5): 1127-37. doi: 10.1162/jocn_a_00202. Epub 2012 Jan 30.
- Hidayat, A., & Aziz, A. (2014). Pengantar basic human needs. Issue 2 (1). Jakarta: Salemba Medika.
- Jaisooriya, T. S., Rani, A., Menon, P. G., Jeevan, C. R., Revamma, M., Jose, V., Radhakrishnan, K. S., Kishore, A., Thennarasu, K., & Nair, S. (2017). Psychological distress among college student in Kerala, India-prevalence, and Correlates. *Asian Journal of Psychiatry*, 28, 28-31. doi: 10.1016/j.ajp.2017.03.026. www.sciencedirect.com.
- Johnson, B. S. (1989). *Psychiatric-mental health nursing: adaptation and growth*. Second edition. Philadelphia: JB Lippincott.
- King, K. H. (2016). A better state-of-mind: reduces state deep breathing test anxiety and enhances performance through test regulating cognitions in children. *Journal of Cognition and Emotion*, doi: 10.1080/02699931.2016.1233095. <https://www.ncbi.nlm.nih.gov/pubmed/27666392>.
- Kumar, A. A., Karthick, K. A., & Rumugam, K. P. (2011). Properties of Biodegradable Polymers and Degradatin for Sustainable Development. *International Journal Of Chemical Engineering and Applications*, 2(3), 164-167.
- Kusmiati, S., & Desminiarti. (1990). *Behavior basics*. Issue I. Jakarta: Pusdiknakes.
- Maghfirah, S., Sudiana, I. K., & Widyawati, Y. (2015). Against Progressive Muscle Relaxation Stress Psychological and Behavioral Care Diabetes Mellitus Type 2. *Jurnal Public Health*. Vol. 10 (2): 137-146. <https://journal.unnes.ac.id/nju/index.php/kemas/article/view/3374/3286>.
- Maramis, W. F. (1999). *Note the medical science of the soul*. Surabaya: Airlangga University Press.
- Mariani, D. (2004). Correlation between Interpersonal Communication and Job Satisfaction with Work Motivation Employee Training and Education Administration Riau Province. Thesis. Jakarta: PPS-UNJ.
- Matthews, G. (2016). Distress. Elsevier. 1 (26): 219. <http://dx.doi.org/10.1016/B978-0-12-800951-2.00026-1>. [Accessed on July 20, 2017]
- National Safety Council. (2004). *Stress Management*. Jakarta: EGC Medical Book.
- Nurhadi & Nursalam. (2003). Effect of Spiritual Guidance on Response Admissions in Patients Terminal. Unpublished thesis. PSIK-Medical Faculty Airlangga University Surabaya.
- Nursalam. (2008). *Concept and Application of Nursing Research Methodology*. Jakarta: Salemba Medika.
- Paul, G., Elam, B., & Verhulst, S. J. (2007). A longitudinal study of students' perceptions of using deep breathing meditation to reduce testing stresses. *Teaching and Learning in Medicine: An International Journal*, 19(3), 287-292. doi: 10.1080/10401330701366754. <https://www.ncbi.nlm.nih.gov/pubmed/17594225>.
- Pawlow, L. A., & Jones, G. E. (2002). The impact of abbreviated progressive muscle relaxation on salivary cortisol. *Biological Psychology*: 60 (1), 1-16.
- Potter & Perry, A. G. (2006). *Textbook Fundamentals of Nursing: Concepts, Process, and Practice*. Ed 4 vol.2. Jakarta: EGC.
- Rachel E., Wiley, & Berman, S. L. (2013).

Kushariyadi: Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress

- Adolescent Identity Development and Distress in a Clinical Sample. *JOURNAL OF CLINICAL PSYCHOLOGY*, Vol. 69 (12), 1299-1304 (2013) in Wiley Online Library (wileyonlinelibrary.com/journal/jclp). DOI: 10.1002 / jclp.22004
- Resti, I. B. (2014). Progressive Relaxation Techniques to Reduce Stress in Patients with Asthma. Vol. 2. Malang: Scientific Journal of Applied Psychology, Faculty of Psychology University of Muhammadiyah Malang
- Rice, V. H. (2012). Handbook of Stress, coping, and health: Implication for nursing research, theory, and practice. Second edition. Los Angeles: Sage Publications.
- Riyanto, A. (2013). Descriptive statistics (for health). Yogyakarta: Nuha Medika.
- Rozaini, N. (2003). Sampling Techniques. USU Digital library. 1 (3): Faculty of Public Health, University of North Sumatra.
- Saam, Z. (2006). Causes of Stress Faculty of Medicine of Riau. Peenelitian report of Riau. Saam, Z., & Wahyuni, S. (2013). Psychological Nursing. Jakarta: RajawalinPers
- Schneiderman, N., Ironson, G., & Siegel, S. D. (2004). Stress and health: psychological, behavioral, and biological determinants. *Annual review of clinical psychology*. Vol. 11, 607-628. <http://dx.doi.org/10.1146/annurev.clinpsy.1.102803.144141>.
- Seaward, B. L. (2006). Managing Stress: Principles and Strategies for Health and Wellbeing. Fifth edition. Colorado: Jones and Bartlett Publishers.
- Sekararum, A. (2012). Interpersonal psychotherapy (IPT) improving social skills of students at the University of Indonesia experiencing psychological distress. Masters Thesis. Depok: Professional Psychology Studies Program, University of Indonesia.
- Sepdianto, C. (2008). Effects of Slow Deep Breathing Exercises Against Blood Pressure and Hypertension Patients Anxiety Levels in Kota Blitar. Thesis. Depok: Post Graduate Program Faculty of Nursing, University of Indonesia.
- Setyoadi & Kushariyadi. (2011). Modality Therapy Nursing at Psikogeriatrik Client. Jakarta: Salemba Medika.
- Shannon, H. S., & Rosenbloom, J. B. D. (1999). Predictor of Psychological distress in the Work Place. Study. CHEPA working paper series.
- Sherina, M. S., Rampal, L., & Kaneson, N. (2004). Medical psychological stress among undergraduate students. *Med J Malaysia*, 59, 207-11.
- Smeltzer & Bare. (2002). Medical-surgical nursing. 8. Edition Vol 1. Interpreting the Supreme Waluyo. Jakarta: EGC.
- Smelter & Bare. (2003). Textbook of medical-surgical nursing Brunner & Suddarth. Issue 9. Jakarta: EGC.
- Soewondo, S. (2009). Guidelines and instructions progressive relaxation exercise. The measurement means development agencies and educational psychology. Jakarta: EGC.
- Stol, R. I. (1989). The Essence of spirituality. spiritual dimension of nursing practice. (VB Carson ed). Philadelphia: WB Saunders Co. pp.4-23.
- Sunaryo, (2004). Psychology of nursing. Jakarta: Medical books
- Valentina, P., & Blandini, M. (2016). The role of deep breathing on stress. Original Article. Springer-Verlag Italia. *Neurol Sci*, doi: 10.1007/s10072-016-2790-8.
- Wahyuni, S. (2015). Knowledge level relationships with students experiencing anxiety typhus in Jember University Health Services Unit. Jember: Jember University
- Wasis. (2008). Research practical guidelines for professional nurses. Jakarta: EGC.
- Winkler, M. F., Malone, A. M., Mahan, L. K., & Escort, S. S. (2008). Medical nutrition

Kushariyadi: Nursing Modality Therapy (Spiritual Deep Breathing) Resolve Student Distress

therapy for metabolic stress: sepsis, trauma, burns, and surgery. Krause's Food and Nutrition therapy, Elsevier: 1021-1041.

