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EDITORIAL

Internationally, academic nurses face increasing pressure to publish their research in high quality and esteemed journals. Publication is important for disseminating research findings that can be adopted to influence the delivery of health care, but also influences rankings and prestige of universities and the professional standings of individual researchers. However, there are many challenges in making it to successful publication, particularly for novices.

Internationally, journals are under growing pressure having a limited scope on how many manuscripts they can publish in any one issue and annually. As academics are under pressure to publish more, numbers of manuscripts being submitted to each journal increases every year. This means that the number rejected by each journal also increases. Many of these manuscripts may not be poorly written or present bad research, they are just not prioritised by editors as material they want to publish. It is, therefore, important to submit manuscripts that present work that an editor wants to publish in their journal. Making it through the initial editor screening can be challenging, but there are strategies that can assist with increasing the likelihood of successful publication.

When developing your manuscript for publication, it is important to write specifically according to the journal you are planning to publish in. Often, researchers will write their manuscript and then try to fit it into a particular journal. This strategy may not be very successful. Journals all have different styles, audiences and manuscript guidelines. It is important when writing the manuscript to consider all of these factors. It is easy to forget you are writing for a particular audience, not just writing to get published. Researchers need to be clear about the audience who read the particular journal, and who is likely to benefit from the research outcomes being reported. It is important to carefully choose journals to publish work in and use the journal’s specific author guidelines to develop the manuscript. Many papers are rejected by journal editors because they have not been developed according the actual journal guidelines.

In preparing for publication, it is important that researchers identify and highlight the new knowledge that their research adds to the existing knowledge base. A lot of research conducted in nursing is very localised to a particular practice or educational setting or geographical location. Researchers need to consider the international scope of their findings if they want to publish in international journals that have readers from around the world. Such considerations need to include how research methodologies or findings could be used by others in international settings or the uniqueness or new knowledge within the paper needs to be highlighted. Overall, it is important that the manuscript is relevant to a broad, international readership as much as possible, and that this relevance is clear.

There is an additional challenge for nurse researchers whose first language is not English. Most of the highly ranked journals in nursing are published in the English language. Not only are they competing for publication space, these researchers face rejection because of issues relating to English expression, grammar and tense. Collaborations with other researchers whose first language is English may be one strategy for increasing possibility of acceptance through improving the English language in manuscripts submitted to journals. Furthermore, collaborating with researchers who have established publication records...
means that there are members of the writing team who have expertise in being successful at navigating the many publication challenges.

Ethics is also an important component in reporting on research conducted. In publishing their work, researchers are required to address ethical issues related to their studies. As editors, we often see papers where ethical considerations comprise only one statement that the research had ethical approval. However, there is more to reporting on ethics than merely acquiring ethical approval, which does not necessarily mean that the research was actually conducted in an ethical manner. In particular, it is important to discuss aspects relating to issues such as informed consent and how this was managed, as well as recruitment strategies demonstrating there was no pressure placed on potential participants or power imbalances between researcher and participants (McKenna & Gray, 2018). Overall, there is a need for more transparent reporting of ethical processes in research.

The growth in predatory journals further complicates the publication process, particularly for novice researchers. Predatory journals are most often money-making scams. Each year, many good research papers are caught up in predatory journals that may not even exist, essentially becoming lost work that cannot be published anywhere else. It is very important for researchers to be aware of how to avoid losing their valuable work to these entities (Darbyshire et al., 2016). It is not uncommon to receive emails daily from so-called journals to publish with them. They often promise a quick turnaround, sometimes in a few days which is impossible for peer review to be conducted. Many have names similar to legitimate journals so you may think they are the real journal. It is very important to carefully check that a journal is legitimate before submitting any work to it. Usually, a lot of work has gone into developing a manuscript for publication and it is vital not to lose that effort.

The need to publish nursing research is increasing. However, this has also increased the competition and number of manuscripts submitted to international journals each year. Being successful in publishing is complex but necessary and empowering. Researchers need to consider a range of strategies they can use to increase the possibility of successful publication in appropriate journals.

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The Comparison of Progressive Muscle Relaxation Frequency on Anxiety, Blood Pressure, and Pulse of Haemodialysis Patients

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ABSTRACT

Introduction: Haemodialysis is one of the kidney replacements therapies, but, as it cannot wholly replace kidney function, it still causes complications such as increased blood pressure and pulse which can lead to anxiety for the patient. The purpose of this study was to explain the effect of Progressive Muscle Relaxation (PMR) on anxiety, blood pressure and pulse in haemodialysis patients.

Methods: The study design was a true pre-post-test control group design experiment. The total sample was 105 haemodialysis patients taken by purposive sampling technique and divided into two intervention groups and one control group. The independent variable was PMR, and the dependent variables were anxiety, blood pressure and pulse. Data were obtained using a questionnaire and analysed using the Kruskal Wallis Test and Mann-Whitney U test with a significance level <0.05.

Results: The results of the PMR two times per week group analysis for one month showed a significant influence on anxiety (p=0.000), blood pressure (p=0.000), and pulse rate (p=0.000). Mann-Whitney U Test Results showed a significant effect on anxiety (p=0.004), blood pressure (p=0.000), and pulse (p=0.000).

Conclusion: Haemodialysis patients who performed PMR interventions showed a promising outcome on a decrease in anxiety, blood pressure and pulse. The regular application of PMR interventions can control vital signs in patients undergoing haemodialysis.

INTRODUCTION

Chronic Kidney Disease (CKD) is a problem that is often found in the community; in its journey, if it reaches to stage five, it will require kidney replacement therapy in the form of kidney transplantation or dialysis (KDIGO, 2013; Tomson & Taylor, 2015). Between the two types of replacement therapy, dialysis is a standard therapy carried out and haemodialysis (HD) is a procedure that results in the rest of metabolism, and excess fluid is removed from the blood through the artificial kidney (Amini, Goudarzi, Masoudi, Ahmadi, & Momeni, 2016). Haemodialysis cannot heal and is unable to compensate for the loss of metabolic or endocrine activity carried out by the kidneys, so that patients continue to experience complications, including increased blood pressure and pulse that cannot be controlled. Studies estimating CKD prevalence with HD in general populations worldwide found a consistent rate estimated of 11-13% (Li, Jiang, Wu, Xu, & Miao, 2017; Qureshi, Lorch, & Navaneethan, 2017; Rahimlu, Shab-bidar, & Djafarian, 2017; Trapp et al., 2014; Valika & Peixoto, 2016). The complication raises new more complex problems, including anxiety (Kokoszka et al. 2016). Anxiety in patients who do HD often lacks people's attention, even though the psychological burden experienced by HD patients can affect health and treatment (Li et al., 2016). Anxiety is a major factor that can reduce the health of HD patients. In our study site location, the interventions are given to patients to reduce anxiety with health education, and there are no additional interventions.
Further efforts are needed to reduce anxiety, blood pressure and pulse experienced by HD patients.

The proportion of the global population with anxiety disorders in 2015 was estimated at 3.6%. Depression and anxiety disorders are more common in women than men (4.6% compared to 2.6% at the global level). The data showed the prevalence of emotional, and mental diseases as indicated by symptoms of depression and anxiety for ages 15 years and older, reaching around 14 million people or 6% of the total population of Indonesia (Riskesdas, 2018). In the blood pressure and pulse rate of 100 haemodialysis patients, an estimated 80 patients experienced changes in both.

One of the essential intradialytic complications to evaluate is cardiovascular problems because it causes an increase in morbidity and mortality in CKD patients undergoing routine haemodialysis (Shin, Yeo, Hong, Hwang, & Kim, 2018). Cardiovascular complications can include blood pressure and pulse that cannot be controlled. In increased blood pressure often associated with renin, fluid overload and sympathetic nerves, these sympathetic nerves also affect the pulse rate in haemodialysis patients. (Li et al., 2017). All complications arising will increase the anxiety felt by the patient. The anxiety in sedentary HD patients can contribute to disease progression and worsen the prognosis (Li et al., 2016). The intervention to minimise complications is usually pharmacological and non-pharmacological therapies, but, due to a disruption in kidney function, an alternative that can be used is non-pharmacological therapy.

PMR is a relaxation technique through two processes, namely tensing and relaxing the muscles of the body, which is a combination of breathing and movement exercises (Mhaske, Poovishnu Devi, & Jagtap, 2018). PMR can reduce anxiety for five times per week (Ramasamy, Panneerselvam, Govindharaj, Kumar, & Nayak, 2018); improved physical function (Ublosakka-Jones, Tongdee, Pachirat, & Jones, 2018); sleeping disorder Seyed Chegeni, Gholami, Azargo, Hossein Pour, Birjandi, & Norollahi, 2018); mental (Li et al., 2015); and quality of life (Ramasamy et al., 2018). Implementation of PMR for five times per week can reduce patient anxiety in the hospital (Amini, Goudarzi, Masoudi, Ahmadi, & Momeni, 2016; Ramasamy, Panneerselvam, Govindharaj, Kumar, & Nayak, 2018), while research conducted by Li et al. (2015) states giving it three times per week can reduce anxiety. The success of an exercise is also determined by the frequency performed. Based on the explanation above, research is needed to analyse the effect of the comparison of PMR frequency two times per week for one month and one time per week on anxiety, blood pressure and pulse frequency in HD patients.

MATERIALS AND METHODS

The research was true-experimental with pre-post-test control group design. The population was 192 haemodialysis patients at "X" Hospital in East Java Province. The total samples were 105 people obtained by purposive sampling with inclusion criteria 1) conscious and cooperative patients (compos mentis) and cooperative; 2) aged >18 years; 3) having HD for >2 months, and undergoing HD twice per week; 4) systolic blood pressure between 120 - 160mmHg, and diastole between 80-110mmHg before HD; and 5) pulse between 70-100 x per minute before HD. The exclusion criteria included: 1) the patient having chronic unstable heart disease; 2) the patient experiences neuromusculoskeletal system disorders such as chronic injuries, fractures, increased intracranial pressure, severe coronary artery disease, and is pregnant; and 3) being weak (haemoglobin (HB)<8). The dropout criteria: 1) respondents resign during the study; 2) respondents are not cooperative in answering the questionnaire given; 3) respondents who did not follow the intervention more than three times in a row and did not take the post-test; and 4) respondents move haemodialysis. The independent variable was the progressive muscle relaxation intervention and the dependent variables were the change in anxiety, blood pressure and pulse. Anxiety was measured with the Covi Anxiety Scale (Lipman & Covi, 1981) which consists of a quantitative anxiety assessment. Blood pressure was measured using an automatic tensiometer, and a pulse with palpation which was then documented on the observation sheet. The collected data were analysed by Kruskal Wallis to analyse differences between groups (treatment 1, treatment 2, and control) and Wilcoxon Signed Rank Test to find out the difference between pre-test and post-test in each group. The researchers assessed the anxiety score using the Covi Anxiety Scale Questionnaire sheet in order to obtain an initial score before the intervention. Then, the researchers conducted a matching technique based on the level of scoring results to try to maintain the homogeneity of respondents and divide respondents into treatment 1 (PMR group two times per week for one month) with 35 respondents, treatment 2 (PMR group once per week for one month) with 35 respondents, and the control group with 35 respondents. After four weeks of intervention, a post-test was conducted on both groups as an evaluation using the Covi Anxiety Scale questionnaire. This study has obtained ethical eligibility from the Health Research Ethics Committee of "X" Hospital with Number 893.3/1873/438.6.7/2019.

RESULTS

The results of studies on the variables anxiety, blood pressure (systole and diastole) and pulse can be seen in Table 1 with 105 respondents. The results of the study on anxiety variables found a significant difference in the significance of anxiety changes in treatment 1 with the control group, obtaining a p=0.004 which means that treatment 1 was a change in anxiety compared with the control group. Whereas
Table 1. The intervention of progressive muscle relaxation two times per week for one month (treatment 1) and one time per week for one month (treatment 2) for changes in anxiety, blood pressure (systole and diastole) and pulse.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Pre</th>
<th>p*</th>
<th>Post</th>
<th>p*</th>
<th>Delta</th>
<th>p*</th>
<th>Mean ± SD</th>
<th>p**</th>
<th>p***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anxiety</td>
<td></td>
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<tr>
<td>Treatment 1</td>
<td>9.91 ± 2.120</td>
<td>0.000</td>
<td>9.31 ± 2.153</td>
<td>0.017</td>
<td>-0.60 ± 0.497</td>
<td>0.000</td>
<td>-0.60 ± 0.497</td>
<td>0.004</td>
<td></td>
</tr>
<tr>
<td>Treatment 2</td>
<td>9.91 ± 2.120</td>
<td>0.000</td>
<td>9.51 ± 2.049</td>
<td>0.025</td>
<td>-0.40 ± 0.497</td>
<td>0.000</td>
<td>-0.40 ± 0.497</td>
<td>0.015</td>
<td>0.207</td>
</tr>
<tr>
<td>Control</td>
<td>9.91 ± 2.120</td>
<td>0.000</td>
<td>9.66 ± 2.169</td>
<td>0.001</td>
<td>-0.26 ± 0.443</td>
<td>0.000</td>
<td>-0.26 ± 0.443</td>
<td>0.009</td>
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<tr>
<td>Systole Blood Pressure</td>
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<tr>
<td>Treatment 1</td>
<td>144.86 ± 12.455</td>
<td>0.004</td>
<td>138.14 ± 12.25</td>
<td>0.064</td>
<td>-8.14 ± 4.864</td>
<td>0.000</td>
<td>-8.14 ± 4.864</td>
<td>0.000</td>
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</tr>
<tr>
<td>Treatment 2</td>
<td>139.14 ± 11.973</td>
<td>0.000</td>
<td>135.57 ± 11.09</td>
<td>0.007</td>
<td>-3.57 ± 3.109</td>
<td>0.000</td>
<td>-3.57 ± 3.109</td>
<td>0.000</td>
<td>0.019</td>
</tr>
<tr>
<td>Control</td>
<td>140.86 ± 11.973</td>
<td>0.000</td>
<td>139.00 ± 9.985</td>
<td>0.001</td>
<td>-1.86 ± 2.451</td>
<td>0.000</td>
<td>-1.86 ± 2.451</td>
<td>0.000</td>
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<tr>
<td>Diastole Blood Pressure</td>
<td></td>
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<td></td>
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<tr>
<td>Treatment 1</td>
<td>93.14 ± 7.960</td>
<td>0.000</td>
<td>86.14 ± 6.427</td>
<td>0.000</td>
<td>-7.00 ± 4.236</td>
<td>0.000</td>
<td>-7.00 ± 4.236</td>
<td>0.000</td>
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<tr>
<td>Treatment 2</td>
<td>89.71 ± 6.636</td>
<td>0.000</td>
<td>85.71 ± 5.959</td>
<td>0.017</td>
<td>-4.00 ± 4.166</td>
<td>0.000</td>
<td>-4.00 ± 4.166</td>
<td>0.005</td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>88.00 ± 9.010</td>
<td>0.000</td>
<td>86.43 ± 7.130</td>
<td>0.004</td>
<td>-1.57 ± 2.913</td>
<td>0.000</td>
<td>-1.57 ± 2.913</td>
<td>0.006</td>
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<tr>
<td>Pulse</td>
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<tr>
<td>Treatment 1</td>
<td>83.83 ± 1.706</td>
<td>0.001</td>
<td>80.63 ± 1.262</td>
<td>0.000</td>
<td>-3.20 ± 1.828</td>
<td>0.000</td>
<td>-3.20 ± 1.828</td>
<td>0.000</td>
<td></td>
</tr>
<tr>
<td>Treatment 2</td>
<td>83.14 ± 2.074</td>
<td>0.000</td>
<td>81.37 ± 1.800</td>
<td>0.000</td>
<td>-1.77 ± 1.516</td>
<td>0.000</td>
<td>-1.77 ± 1.516</td>
<td>0.000</td>
<td>0.009</td>
</tr>
<tr>
<td>Control</td>
<td>82.29 ± 2.177</td>
<td>0.000</td>
<td>81.43 ± 1.720</td>
<td>0.000</td>
<td>-0.86 ± 1.115</td>
<td>0.000</td>
<td>-0.86 ± 1.115</td>
<td>0.001</td>
<td></td>
</tr>
</tbody>
</table>

Treatment 1: PMR two times per week for one month
Treatment 2: PMR once per week for one month
p* normality test, Shapiro Wilk (normal p-value 0.05)
p** Kruskal Wallis (p-value 0.05)
p*** Wilcoxon Signed Rank Test (p-value 0.05)

in treatment 2 compared to the control group, it could be interpreted that there was no significant difference because of obtaining a p-value of 0.05. In the comparison of treatment 1 and treatment 2 it can be interpreted that there was no significant difference, with p-value 0.05. Treatment 1 affects anxiety; this is indicated by the difference in anxiety values in treatment 1, treatment 2 and control group.

The results of the study are that blood pressure systole variable showed differences in systolic blood pressure in treatment 1 with the control group obtaining a p=0.000. This means that treatment 1 was a change in systolic blood pressure compared to the control group. With treatment 2 compared to the control group, it can be interpreted that there was a significant difference, with p=0.019, whereas in the comparison of treatment 1 and treatment 2, it can be interpreted that there was a significant difference, with p=0.000. Treatment 1 was the most effective in changes in systolic blood pressure compared to treatment 2; this is indicated by the difference in anxiety values in treatment 1, treatment 2 and the control group.

The results of the study on the blood pressure diastole variable obtained significant diastole blood pressure differences in the three groups. It showed a significant difference with p=0.000, which means that treatment 1 was the best group in diastolic blood pressure changes compared to treatment 2 and control. Thus, it can be concluded that implementation of treatment 1 has an effect on diastolic blood pressure; this is indicated by the difference in the value of diastolic blood pressure in treatment 1, treatment 2 and the control group.

The results of the study on the pulse variable obtained a significant difference in the pulse rate in the three groups and showed a significant difference with a value of p<0.000, which means that treatment 1 affected the change in pulse rate of haemodialysis patients compared to treatment 2 and the control group. Thus, it can be concluded that implementation of treatment 1 was the most effective against changes in pulse; this is indicated by the difference in the value of pulse changes in treatment 1, treatment 2 and the control group.

**DISCUSSION**

**Anxiety**

Variable change in anxiety in the progressive muscle relaxation group two times per week for one month showed a significant decrease, which means there was an influence of PMR two times per week for one month compared to the control group. The progressive muscle relaxation group one time per week for one month showed no significant decrease, which means there was no effect of PMR one time per week for one month compared to the control group. Whereas the comparison of the progressive muscle relaxation group two times per week for one month and the progressive muscle relaxation group one time per week for one month showed a nonsignificant decrease, which means that the administration of PMR two times per week for one month and PMR one time per week for one month were both effective on anxiety changes in haemodialysis patients. However, the PMR group two times per week for one month showed a more effective value when compared to the PMR group one time per week for one month and the control group.

The results of this study are consistent with other studies that show that progressive muscle relaxation can reduce anxiety. Research conducted by Ramasamy, Panneerselvam, Govindharaj, Kumar, and Nayak (2018) states that progressive muscle relaxation...
Progressive muscle relaxation causes contraction of skeletal muscle fibres which leads to a sensation of muscle tension. In this case, the central nervous system involving the sympathetic nerves and the parasympathetic nervous system. Some organs are affected by these two nervous systems between sympathetic and parasympathetic work reciprocity. The activity of the parasympathetic nervous system is also called trophotropic, which can cause feelings of wanting to rest and physical repair of the body. The parasympathetic response includes a decrease in pulse and blood pressure, increased blood flow and suppression of tension and anxiety. Therefore, progressive muscle relaxation exercises can bring a relaxation response so that it can achieve a state of calm and stress will decrease. Comfortable feelings are passed on to the hypothalamus to produce Corticotropin-Releasing Factor (CRF). The CRF stimulates the pituitary gland to increase the production of endorphin, enkephalin and serotonin which can ultimately increase patient comfort. Feeling comfortable and relaxed can cause anxiety to decrease (Smeltzer, Bare, & Hinkle, 2015).

In this study, demographic characteristics between groups are the same. Thus it does not affect the results. The researchers believe that the change in anxiety in this study occurred due to the influence of progressive muscle relaxation two times per week for one month, which stimulates the pituitary gland to increase endorphin production, which can ultimately increase patient comfort. This comfortable and relaxed feeling can cause a decrease in anxiety, blood pressure and pulse rate (Smeltzer et al., 2015). In the control group, most respondents did not experience changes in anxiety, this is because respondents in the control group only received health education and the absence of interventions that could increase comfort caused anxiety in most patients in the control group to not decrease.

**Blood pressure**

In the variable changes in blood pressure, the progressive muscle relaxation group two times per week for one month showed a significant decrease, which means there was an influence of PMR two times per week for one month compared to the control group. The progressive muscle relaxation group one time per week for one month showed a significant decrease, which means there was an effect of PMR one time per week for one month compared to the control group. Whereas the comparison of the progressive muscle relaxation group two times per week for one month and the progressive muscle relaxation group one time per week for one month showed a significant decrease, meaning that the administration of PMR one time per week for one month in regard to changes in blood pressure in haemodialysis patients.

The results of this study are consistent with other studies that show that progressive muscle relaxation can reduce blood pressure. Research conducted by Rosdiana and Cahyati (2019) states that progressive muscle relaxation once a day for seven days can lower blood pressure in hypertensive patients (Sulaeman, 2018). Progressive muscle relaxation is effective in reducing blood pressure in hypertensive patients. With progressive muscle relaxation interventions, blood pressure in hypertensive patients are more likely to fall than without progressive muscle relaxation (Herawati & Azizah, 2016). This comfortable and relaxed feeling can cause blood pressure to decrease (Herawati & Azizah, 2016).

In this study, the demographic characteristics between the PMR groups of the control group were the same, so that they did not affect the results. The researchers believe that changes in blood pressure in this study occurred because of the effect of progressive muscle relaxation that stimulates the pituitary gland to increase endorphin production, which can ultimately increase patient comfort. This comfortable and relaxed feeling can cause a decrease in blood pressure (Herawati & Azizah, 2016). In the control group, most of the respondents did not experience changes in blood pressure; this is because respondents in the control group only received health and the absence of interventions that can increase the sense of comfort and relaxation caused blood pressure in most patients in the control group to not decrease.

**Pulse**

In the variable pulse change, the progressive muscle relaxation group two times per week for one month showed a significant decrease, which means there was an influence of PMR two times per week for one month compared to the control group. The progressive muscle relaxation group one time per week for one month also showed a significant decrease, which means there was an effect of PMR one time per week for one month compared to the control group. Whereas the comparison of the progressive muscle relaxation group two times per week for one month and the progressive muscle relaxation group one time per week for one month showed a significant decrease, meaning that the administration of PMR two times per week for one month was more effective.
when compared to the PMR one time per week for one month on changes in pulse in haemodialysis patients.

The results of this study are in agreement with other studies that show that progressive muscle relaxation can reduce the pulse rate. Research conducted by Khanna (2007) states that progressive muscle relaxation once a day for ten consecutive days can reduce the pulse rate in women with high-stress levels (Khanna, Paul, & Sandhu, 2007). Progressive muscle relaxation interventions two times per week can reduce the pulse rate in surgical patients (Ko & Lin, 2012). Intervention of progressive muscle relaxation, two times per week for one month meant the pulse rate and stress in students decreased (Shinde, Kini, Naik, & Desousa, 2015).

High pulse in haemodialysis patients can be caused by anxiety experienced. Anxiety occurs due to the stimulation of the endocrine and autonomic systems. Hyperactivity to stimulants in the autonomic nerve due to anxiety can affect several organs and results in other symptoms, such as increased pulse rate. In this study, the demographic characteristics between the PMR groups of the control group were the same, so that they did not affect the results. The researchers believe that the change in pulse rate in this study occurred due to the effect of progressive muscle relaxation which stimulates the pituitary gland to increase endorphin production, which can ultimately increase patient comfort. This feeling of comfort and relaxation can cause a decrease in pulse (Herawati & Azizah, 2016). In the control group, most respondents did not experience a change in pulse, and this is because respondents in the control group only received health education and the absence of interventions that could increase the sense of comfort and relaxation which caused the pulse rate in most patients in the control group to not decrease.

CONCLUSION

From the results of the study it can be concluded that increasing the intensity of PMR interventions can have a positive effect on reducing anxiety levels, controlled blood pressure and regular pulse. It is hoped that further researchers will be able to develop PMR methods that can be effective and be used to resolve health problems in haemodialysis patients or others. The contribution of the study is in affording new information and techniques to maintain anxiety, blood pressure and pulse of haemodialysis patients. The application of PMR interventions can be given by nurses regularly to patients undergoing haemodialysis so that vital signs, including anxiety, blood pressure and pulse, can be controlled.

LIMITATION

Limitations in this study are that it only uses the progressive muscle relaxation group two times per week for one-month, progressive muscle relaxation one times per week for one month and the control group. Thus, it was necessary to add sufficient interventions as a comparison to see the effectiveness of progressive muscle relaxation therapy.

REFERENCES


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