The Effectiveness of Cognitive Restructuring Techniques in Improving Students Learning Motivation

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Abstract
The aim of the research is to determine the effectiveness of cognitive restructuring techniques to increase learning motivation in students of State Islamic Junior High School 6 Bantul. The type of research is experimental research. The research design uses quasi-experiment. The research population was 8th grade students of State Islamic Junior High School 6 Bantul, amounting to 149 students. The sampling technique in the research used purposive sampling. The data collection method uses a scale of learning motivation that has gone through validation process. Data analysis using non-parametric statistics with the Wilcoxon Signed Rank Test. The results showed that there were differences in the results of the experimental group’s learning motivation before (M=72.17) and after (111.67) the treatment was given (p=0.027<0.05). These results can be concluded that cognitive restructuring techniques are effective to increase students learning motivation.

INTRODUCTION
Junior high school students are individuals who have a developmental category in adolescence. Adolescence is a time of change and individual development from childhood to adulthood. According to Santrock (2014) adolescence is marked by growth, sexual development psychologically to determine the thoughts, feelings and behavior. The task of adolescent development is important for a young individual to adjust to the social environment.

Important developmental tasks are owned by individuals in adolescence in more mature relationships according to age, sex, social emotional and behavioral change (Manning, 2002). It is one of the demands that must be completed by an adolescent to meet the developmental task's objectives. To meet its needs, motivation is needed in maximizing aspects of adolescent development. According to Santrock (2014), individuals are expected to be able to change behavior in meeting their needs which include various aspects; such as social, cognitive, physical and emotional aspects. having a motivation becoming a challenge for developing youths to influence their progression task.

Having a motivation becoming a challenge for developing youths to influence their progression task. In general there are two motivations, namely intrinsic motivation and extrinsic motivation. Intrinsic motivation includes responsibility, diligence, and independence.
in in learning activities. Whereas extrinsic motivation encompasses as appreciation and uncomfortable environment (Schreglmann, 2018). Motivation has an important role in eliciting the affective nature and students' perceptions about the behavior of learning success (Drakulic, 2019). Lack of motivation in students will be a failure in a job. According to Skaalvik & Skaalvik (2017) the lack of attation, minimal self efficacy and sensitivity of an individual can cause the lack of motivation. Besides motivation they also gets influence from the surrounding environment such as peer influence, competence and independence in learning (Tanaka, 2017).

The phenomenon of lack of learning motivation found in State Islamic Junior High School 6 Bantul is based on preliminary studies and interviews with the teacher of guidance and counseling that listens to students who stated that they often talk with friends during lessons, feel lazy, do not like some specific subjects, do not do homework assignments and feel learning is not important. Some of them say that learning is a pressure because their parents demands great expectations in academic to their children thus, the levels of learning motivation can affect the failure of the learning process. Based on the author's observation, idle students who are still in the process of acquiring new knowledge find it hard to become active and will treat every activity as a burden. Various studies in Indonesia show there are still students who have low learning motivation. Research related to low learning motivation includes Industrial Engineering and Industrial Refrigeration students. Only about 30% of students have good learning methods and high encouragement to learn, while 70% of other students have good learning methods but low learning encouragement (Mappeasse, 2009). In addition, there are still junior high school students who are known to have low learning motivation during the transition from elementary school to secondary school by 80% (Yu, Wu, & Huang, 2018). Based on a preliminary study conducted by researchers at Islamic junior high school 6 in Bantul using the Checklist of Problems in 8th class, it was found out that there were problems related to low motivation to learn. The overall results related to learning motivation includes 58.1% of irregular student learning time, 64.5% of students feel sleepy when the learning process is on going, 38.7% of students often feel lazy to learn and 29% of students learns fast during evening. Individuals who have no motivation will be easily discouraged, easily bored and have difficulty in achieving learning goals. Low motivation to pick up new knowledge will have an impact on the achievement of student learning outcomes, this means that issues related to student motivation is of an important concern. Therefore, the teacher guidance and counseling is expected to help students overcome their problems related to low learning motivation.

Motivation in individuals is an encouragement to move an action in bringing about the desire to learn. Learning motivation is the driving force to conduct learning activities and maintain them without being asked by others (Tentama, Subardjo, & Abdillah, 2019). Individuals with high learning motivation tend to have a strong desire to perform tasks, are able to strive to learn, have persistence in learning, and are enthusiastic in learning (Setiani, Sanjaya, & Jatmiko, 2019). On the other hand, individuals with low learning motivation certainly cannot carry out learning activities optimally (Fitri, et al., 2016). High and low individual motivation plays a role in determining actions to achieve improved learning outcomes (Rehman & Haider, 2013). This is proven by a research which claims that learning motivation acts as one of the main keys to an individual's academic success (Rahardjanto, Husamah, & Fauzi, 2019). Learning motivation has a clear direction on learning behavior. It is a factor that influences behavior and learning outcomes to describe individual cognition in completing tasks and the active component in responding to an individual's emotional towards certain tasks (Sun & Lee, 2016). Therefore, the incentives will give learning outcomes in accordance with the expectations desired by each individual. The negative impact of learning motivation can be overcome by providing services through guidance and counseling.
According to Hartini & Ariana (2016) guidance and counseling teachers or advisors are facilitators that will help a student to change behavior because some of them need help from others to make progress in learning. Various service strategies make students interact to solve problems through group dynamics, one of them with group counseling services. Group counseling is a service where a group of members come because they have a problem being experienced (Jacobs, Masson, & Harvill, 2012). Group counseling services also help students to make plans and implement them in the future (Smith, 2015). In aiding students to overcome challenges, it is necessary to use techniques in group counseling.

Cognitive restructuring techniques are approaches in which the counselee collaboratively identifies irrational thoughts and evaluates and modifies irrational thoughts that can worsen emotional behavior (Wenzel, Dobson, & Hays, 2016). According to Clark (2013) through cognitive restructuring techniques, it will change what affects an individual’s negative thoughts and encourage more positive beliefs. Changes in judgments about individual beliefs are the process of action from negative beliefs to more positive beliefs. Cognitive restructuring techniques can also make the counselee aware that mistakes in thinking will damage behavioral habits that affect emotional stress (Nursalim, 2013). Provision of cognitive restructuring techniques for students is not only successful in school lessons but also successful in other aspects (Mikaeili, Zare, & Alhashem, 2010). Various studies explain that cognitive restructuring techniques can reduce academic anxiety (Ghamari, Rafeie, & Kiani, 2015), change smoking behavior in adolescents (Umaru et al., 2014), improve student’s self-confidence (Chandra, Wibowo, & Sunawan, 2019), reduce student’s truancy (Erfantinni et al., 2019), and endurance (Krisnayana, 2014). There is no specific research mentioned above about motivation to learn, so the authors in this article will reveal the effect of cognitive restructuring techniques on student learning motivation.

METHODS

This study is an experimental study with a Non Equivalent Control group design pattern. Campbell & Stanley (2015) explained that this design was an experimental group and the control group were two different groups given pre-test and post-test. The reason for using this design is because there is a comparison group to see the effectiveness of providing group counseling through cognitive restructuring techniques.

The population in this study was the class VIII students of State Islamic Junior High School 6 Bantul, amounting to 149 students. The sampling technique in this study used purposive sampling. The criteria for determining the sample in this study were eighth grade students of State Islamic Junior High School 6 Bantul, which showed that they had low learning motivation problems based on measurement with learning motivation scale instruments.

Learning motivation scale adopts Schreglmann's theory (2018). The scale of learning motivation consists of two indicators: 1) Intrinsic motivation, namely individual awareness in an activity without the need for external gifts that are marked by having responsibility in their own activities, persevering in their duties and being independent in conducting learning activities. 2) Extrinsic motivation is a factor that influences from outside because it has the effect of appreciation in learning and a good environment. Learning motivation scale consisting of 48 items found 10 items are invalid so that the total number of valid statement product is 30 items and has a low validity value of 0.371 and a high validity value of 0.648.

Example of the statements are 1) “I do my work in a hurry before being collected”, 2) “When discussing problems in the group, I am actively involved in getting reference sources”, 3) “I complete the task in an inappropriate time”, 4) “I complete the task not according to the time available”, 5) “When I get a difficult task, I am embarrassed to discuss it with friends”, 6) “I set hours of study at home”, 7) “I go to school aimlessly in learning achievement”, 8) “I
get poor learning results because I don't study”, 9) “I am active in class because I see the atmosphere of the participating class”, and 10) “I find it hard to learn because it is difficult to refuse my friends to hang out”, with the Alpha Cronbach formula the reliability coefficient on the learning motivation scale is 0.89.

The data analysis techniques in this study used non-parametric statistics with the Wilcoxon Signed Rank Test. The purpose of using this data analysis technique is to see changes in student motivation before and after getting treatment in the form of cognitive restructuring techniques.

RESULTS AND DISCUSSION

The results of the study prove that after the treatment was given to the experimental group there was an increase, while the control group did not have a significant change. Differences in the experimental and control groups can be seen from the results of the hypothesis test analysis presented in Table 1.

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Experiment (N=6)</th>
<th>Control (N=6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pretest</td>
<td>M 72.17</td>
<td>72.50</td>
</tr>
<tr>
<td></td>
<td>SD 2.317</td>
<td>1.871</td>
</tr>
<tr>
<td>Posttest</td>
<td>M 111.67</td>
<td>73.33</td>
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<tr>
<td></td>
<td>SD 15.578</td>
<td>2.160</td>
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<td></td>
<td>Z -2.207</td>
<td>-9.49</td>
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<td></td>
<td>P 0.027 (&lt;0.05)</td>
<td>0.343 (&gt;0.05)</td>
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</table>

Table 1. Mean, SD, and hypothesis analysis

Based on the data presented in Table 1, the Wilcoxon test results in the learning motivation of the experimental group above explained that Z was -2.207 and probability p=0.027. This shows that the value of p=0.027 is less than 0.05 (5% error rate), it can be concluded that there are differences in the results of the experimental group’s learning motivation before and after treatment is given. While the Wilcoxon test results of learning motivation in the control group Z is -0.949 and probability p=0.343. This shows that the value of p=0.343 is greater than 0.05 (5% error rate), so it can be concluded that there is no difference in the results of learning motivation in the control group before and after the treatment is given.

Learning motivation is essential for students because it encourages learning behavior, clearly and directed to achieve optimal learning outcomes. Research conducted by Riswanto & Aryani (2017) revealed that students who are motivated to do something will use cognitive skills to be able to master and absorb material well. The researcher identifies the conditions of students' learning motivation that have a tendency to learn motivation in the low category. Various phenomena that occur in the field seem to need intervention to overcome the problems of students who have low learning motivation so that students can be active and able to encourage the power to take action on strong learning activities. Individuals with high learning motivation are effective in determining how individuals achieve desired goals either consciously or unconsciously (Slameto, 2003). Students with high motivation to learn tend to work hard and not easily discouraged (Shiu, Lin, & Chien, 2012). Increased student motivation can be seen from intrinsic learning motivation by observing the model through video recording and self-monitoring that is able to improve the observed skills (Zulfa, 2018). Research conducted by Tseng & Walsh Jr (2013) explains learning motivation can increase high after being given the implementation of ARCS (attention, relevance, self-confidence and satisfaction). The existence of motivation in a person will grow depending on every activity. Students who have strong intrinsic motivation and values will have higher scores in learning (Rabanaque & Martínez-Fernández, 2009). In addition, Aritonang (2008) explains that high...
and low learning motivation possessed by individuals greatly influences academic results. Individuals who have low learning motivation will avoid challenging tasks (Santrock, 2014). They will also be grouped into 2 parts the experimental group will be given cognitive restructuring techniques and the control group will get the usual treatment given by the guidance and counseling teacher.

Cognitive restructuring techniques are provided for students to have high learning motivation. In line with the results of research from Ningrum (2018), it shows that students who are treated in the form of cognitive restructuring techniques have increased motivation in learning office administration studies. The provision of cognitive restructuring techniques can make students have high learning motivation through structuring individual mindsets. Increased student motivation based on research results (Ngwoke, Numonde, & Ngwoke, 2013) recommends that workshops and seminars should be held in schools in training teachers how to restructure students' cognitive in class to increase orientation towards low achievement. Cognitive restructuring techniques are effective to improve student's learning motivation. It helps students become more adaptive, which turns irrational thoughts into positive ones. Hypothesis results showed a significant probability and different mean value of learning motivation, so that there are significant differences in the results of learning motivation of the experimental group before and after the treatment is given.

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AUTHOR CONTRIBUTION STATEMENTS
All authors have agreed with the final version of this article.

REFERENCES


