Rhythmic Gymnastics Development to Increase Rough Motor Skills in Elementary School Student

Jeane Betty Kurnia Jusuf1*, K Khatimah1, Y Rahmawati1, Julianur1, N A Mahardhika1, Januar Abdilah Santoso1

1 Faculty of Teacher Training and Education, Universitas Muhammadiyah Kalimantan Timur, Samarinda, Indonesia
*Corresponding author. Email: Jbk567@umkt.ac.id

ABSTRACT

The purpose of this research was to identify the rough motor skills of students before and after the rhythmic gymnastics’ activities, and the application of it to improve rough motor of the students. The sample was from the upper class of Islamic Centre Elementary school which where the students' rough motor skills were not optimal based on the preliminary observation. The method was Classroom action research (CAR) which consisted of two cycles. Classroom Action Research methods included: Planning, acting, and reflecting. The data collection techniques were used observations and documentations. The subjects were 25 students consisting of 15 boys and 10 girls. The data collections of instruments were in the form of checklist observation and pictures document as well as videos. The data analysis technique used is qualitative and quantitative analysis. The result of the research showed that the rough motor skills of the students during prior observation is 26% with medium criteria, in the first cycle increased to 53.4% with high criteria, and in Cycle II to 81% with very high criteria. It concluded that rhythmic gymnastics through traditional song can increase rough motor skills in elementary school students.

Keywords: rhythmic gymnastics, rough motor skills, elementary school

1. INTRODUCTION

One of the children developments who can be stimulated is motor development. Motor development can be defined as the strengthening and physical growth from muscles, child's bones, and capability to touch and move everything around them. Motor development is a change in the ability of movement from infancy to adulthood that requires various aspects protection of abilities [1]. Movement can be treated and supported by using tool or equipment for example previous researcher revealed that stick gymnastic as a knowledge media for elementary school students, making students actively doing movement, and can be received by students and physical education teachers [2]. In fact, several movements don’t support any equipment. However, it can be collaborated by another media to make it more attractive. Movements are not merely served insight into the knowledge possessed by a speaker, otherwise, it provides insight into how that knowledge is represented [3].

Generally, age is a short period of child development nonetheless it is very important period for their life [4]. Moreover, Dayu gymnastics product (Dayak Gymnastics and Melayu dance) as an alternative learning rhythmic activity for physical education in school’s environment [5]. Another consequence was come from gross motor development of children is an effort to enhance the mastery of skills portrayed in the ability to accomplish certain motor tasks. Gross motor improvement is a part of education, especially the experiences of motion on the growth and development of children as a whole [6]. Based on the previous result, especially 5th grade class students and has been adapted to the character of elementary school students, Dayu Gymnastics also has an effective influence for students in learning physical education. Therefore, at this time overall potential possessed by children needs to be encouraged therefore they develop it optimally.

According to the explanation above, we can identify that students in special growth ages will be curiosity. Through the students of elementary school, the development of movement in children can be stimulated in order to optimal development. The development of motor skills roughly discusses the parts of the body that require a certain collection of muscles. Fine motor development uses fine muscles in the feet and hands. Moreover, imperative movement skills reflect the building of movement particular skills necessary for being active physically joining the games or practicing in sports [7].

Various methods are used to develop gross motor skills therefore children are able to develop their physical motor skill. One of the ways which create children to be active, normal, and happy basically are using gymnastics activities. Gymnastics is a sport which involves the performance of movements that require strength, speed, and harmony with regular physical movements. Gymnastics are commonly
applied by people for recreation, relaxation or calming the 
mind, usually, there are those who do it at home, in the gym, 
and in the gymnasium or at school. Nowadays many 
children are used to being taught gymnastics, both by 
parents and by sports instructors at school. From the 
previous researchers, gymnastic among children had 
significant improvement in general body coordination and 
shaped physical self-concept [8]. Further, they found that 
the intervention of gymnastic was found to be of special 
advantages for developing among proficiency in children’s 
movement competence and physical self-concept in 
elementary children. The quality of general movement 
among children especially external focus on performance 
resulted superior movement form and greater jump height 
than did the other two conditions. The present findings 
described that, similar to other tasks, the performance of 
form-based skills which can be enhanced relative simply by 
convenient external focus instructions [9].

2. METHOD

<table>
<thead>
<tr>
<th>Stages</th>
<th>Cycle I</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carry out the planned learning scenario, this stage is carried out with</td>
</tr>
<tr>
<td></td>
<td>the observation phase of the impact of actions.</td>
</tr>
<tr>
<td>Observation</td>
<td>Observations on the application of physical education direct learning</td>
</tr>
<tr>
<td></td>
<td>methods approach to play with modification</td>
</tr>
<tr>
<td>Reflection</td>
<td>Analyze the results of observations and interpretations so that</td>
</tr>
<tr>
<td></td>
<td>conclusions are obtained that need to be improved and what needs to be</td>
</tr>
<tr>
<td></td>
<td>maintained</td>
</tr>
</tbody>
</table>

Each criterion of indicator would percentages by using 
KMK (rough motoric skills) pattern formula as follows: 
KMK = scored gained by the students/maximum scored x 
100%. After gaining KMK value, the next step would be 
found the average value of each cycle. The pattern as 
follows: x = total value from all of the students/total number 
of students.

<table>
<thead>
<tr>
<th>No.</th>
<th>Indicator</th>
<th>Observation (%)</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agility</td>
<td>27%</td>
<td>Quite agile</td>
</tr>
<tr>
<td>2</td>
<td>Balance</td>
<td>26%</td>
<td>Quite balanced</td>
</tr>
<tr>
<td>3</td>
<td>Flexibility</td>
<td>25%</td>
<td>Quite flexible</td>
</tr>
<tr>
<td></td>
<td>Rough Motor Skills</td>
<td>26%</td>
<td>Fair</td>
</tr>
</tbody>
</table>

Based on the data above (Table 1), it can be revealed that in 
the initial conditions before taking the action, (a) in the 
aspect of flexibility shows 27% with sufficiently flexible 
criteria, students indicated had less flexible movements and 
have not been able to coordinate the movements of their 
limbs when participating in rhythmic gymnastics activities; 
(b) aspect balance 26% with sufficiently balanced criteria, 
same students could not maintain their body balance but 
occasionally falls, and had not been able to coordinate the 
movements of his limbs when following the rhythmic 
gymnastics activities (c) the agility aspect presented 25% 
with less agile criteria it was because several students did 
not follow the rhythmic gymnastics activities.

3. RESULTS AND DISCUSSION

The result and discussion in this study will be explained 
detail in this portion. The observation result divided into 
several parts. There was Class Action Research (CAR) 
process executed as well as treated. The first observation 
was a result of cycle 1. As the cycle 1 was not resulted
maximal target, it was followed by cycle 2 which had similar steps from the previous cycle. Both of the steps had four meeting in each cycle. Moreover, it had three indicators concerned of rhythmic movement namely agility, balance, and flexibility. The assessment was the rough motor skills. The cycle was regardless the prior observation. In fact, in the second cycle the target was maximal gained. It can be seen based on the comparison accounting.

**Table 3 Observation results of cycle I**

<table>
<thead>
<tr>
<th>No</th>
<th>Indicator</th>
<th>I (%)</th>
<th>II (%)</th>
<th>III (%)</th>
<th>IV (%)</th>
<th>Average (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agility</td>
<td>49</td>
<td>51</td>
<td>51</td>
<td>56</td>
<td>51.6</td>
</tr>
<tr>
<td>2</td>
<td>Balance</td>
<td>50</td>
<td>52</td>
<td>52</td>
<td>57</td>
<td>52.6</td>
</tr>
<tr>
<td>3</td>
<td>Flexibility</td>
<td>56</td>
<td>55</td>
<td>54</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>Rough Motor Skills</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>53.4</td>
</tr>
</tbody>
</table>

Based on Table 3 above shows that there has been an increasing in Cycle I since pre-action (pre-action was applied as the comparison to check the students’ ability in rough motor skills prior the CAR process). This can be seen in the Cycle I action which described that: (a) in the aspect of flexibility shows 56% with flexible criteria, the child shows flexible movements in part of his limbs and can coordinate movements when following the rhythmic gymnastics; (b) the aspect balance of 52.6% with balanced criteria, the child is able to maintain his body balance, but has not been able to coordinate movements when following the rhythmic gymnastics; (c) the agility aspect shows 51.6% with the criteria of agility, the students shows agile body movements, but had not been able to coordinate movements when following the rhythmic gymnastics. From these results, the rough motor skills through rhythmic gymnastics on average in overall aspects it was showed by the percentages 53.4% as the highest level.

**Table 4 Observation results of cycle 2**

<table>
<thead>
<tr>
<th>No</th>
<th>Indicator</th>
<th>I (%)</th>
<th>II (%)</th>
<th>III (%)</th>
<th>IV (%)</th>
<th>Average (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agility</td>
<td>70</td>
<td>72</td>
<td>83</td>
<td>86</td>
<td>77.8</td>
</tr>
<tr>
<td>2</td>
<td>Balance</td>
<td>72</td>
<td>76</td>
<td>87</td>
<td>89</td>
<td>81</td>
</tr>
<tr>
<td>3</td>
<td>Flexibility</td>
<td>78</td>
<td>82</td>
<td>88</td>
<td>89</td>
<td>84.3</td>
</tr>
<tr>
<td></td>
<td>Rough Motor Skills</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>81</td>
</tr>
</tbody>
</table>

Based on Table 4 above shows that there was an increased level and improvement than Cycle I to Cycle II. This can be depicted that in the action of Cycle II which shows that (a) in the aspect of flexibility of 84.3% showed the percentage was very flexible as a criteria, the children showed flexible or non-rigid movements and can coordinate the movements of his limbs when participating in rhythmic gymnastics activities; (b) on aspects a balance, it can be revealed that the result was 81%. it means that the criteria included as quite balance, children are able to maintain body balance and were able to coordinate their limbs when participating in rhythmic gymnastics activities; (c) in the agility aspect of 77.8% depicted that the percentage reached the very agile criteria, the students show agile body movements and can coordinate his limbs when participating in rhythmic gymnastics activities.

**Table 5 The comparison results and percentage of rough motor skill between cycle I and cycle II**

<table>
<thead>
<tr>
<th>No</th>
<th>Indicator</th>
<th>Cycle I (%)</th>
<th>Cycle II (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agility</td>
<td>51.6</td>
<td>73</td>
</tr>
<tr>
<td>2</td>
<td>Balance</td>
<td>52.6</td>
<td>76.6</td>
</tr>
<tr>
<td>3</td>
<td>Flexibility</td>
<td>56</td>
<td>78.8</td>
</tr>
<tr>
<td></td>
<td>Rough Motor Skills</td>
<td>53.4</td>
<td>76</td>
</tr>
</tbody>
</table>

Based on Table 5, it shows that there was an increase from Cycle I to Cycle II. In the aspect of the flexibility aspect increased by 28.3% from 56% with the criteria for flexibility increasing to 84.3% with very flexible criteria, the balance aspect increased from 52.6% with the balanced criteria to 81% with the criteria very balanced which means an increase of 28.4%, in the aspect of agility experienced an increase of 26.5% from 51.6% with fairly agile criteria increased to 77.8% with very agile criteria. From the observations that have been calculated and interpreted into four levels [10], namely:

- a. (0% -25% ) : low
- b. (26% -50% ) : moderate
- c. (51% -75% ) : high
- d. (76% -100%) : very high

The results of action research from pre-action, Cycle I and Cycle II were 26% with medium criteria, 53.4% which interpreted as fine criteria, and 81% with very high criteria after the action done by the researchers. By its result, it can be concluded that several factors of rough motor skills between children especially in ICES (Islamic Center Elementary School) maybe influenced and depend on the teacher treatment in giving an explanation about the material. furthermore, the more they do the exercise in the same thing, it is obviously it will give good results. in other words, due to the fact that they have done the treatment in agility rough motor skills, finally, they have a high balance, agility, and flexibility. This present result was similar to the previous study which shown that the fantasy gymnastic was effective to boost the children's gross motor. It was depicted by 54.2% significance. The fantasy gymnastic learning model gave a significant influence on the gross motor students’ skills as well as make the students the learning process more active and imaginative [11]. Therefore, the approach (CAR) has become one of the most useful methods for the teacher to develop their students' motoric skills. Further researchers would be recommended to develop the approach in order to reach the appropriate rough motoric skills among children under 12 years old.

**4. CONCLUSION**

According to previous discussion and result, it can be revealed that development of rough motor skill among children especially children which in elementary school age are essential. In this study, CAR (Classroom Action Research) were succeed increase their progress of rough motor skill. It was proved from the two-cycle given for them. In the first cycle the increasing were not showed...
significantly. Even, from the first survey time being observed, the class chosen which was treated tended to be apathetic for the rough motor skill. Finally, in the second cycle treatment they showed the significant improvisation and in rough motor skills especially in their agility, balance, and flexibility. Another benefit from the treatment were student at least felt familiar with traditional music which following the movement. It was intentionally made in order to realize them in local music than modern music which everyday faced by. This study has several recommendations either for practitioner or future researchers. For the practitioner, this study is able to become a reference for them to teach rough motor skills development among children. They have to be able to create the content or movement which make student to be interested to follow. The teacher should be creative to select the movement in order to improve their agility, balance as well as their flexibility. This study is really useful for the future researchers especially to whom that having concern in rough motor skill development among children. This research can be developed for the broader scope not only for CAR study but it can be focused on their commitment, motivation or other variables related to.

REFERENCES


