Integrating Disaster Alert Kindergarten Watching into Preschool Education: Designing a Professional Disaster Mitigation Education Model to Early Children

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Abstract. Early childhood is a population that is considered weak and needs adults’ help when an earthquake or tsunami occurs. Early age is the golden age, which is the basis for the formation of personality and independence of children in living their lives. This research is a part of the development of disaster mitigation learning models for early childhood. The development of Disaster Alert Kindergarten Watching Learning Model in the context of providing disaster mitigation education to early children is an adoption and the development of the Town Watching Method. The town Watching Method was introduced by Prof. Dr. Ogawa Yujiro in the Town Watching for Disaster Prevention Guidebook at Fuji Tokoha University in 2010. The initial stage of the development disaster mitigation education models to early children is a stage of defining and designing the model. The definition of this model begins by analyzing the needs and characteristics of early children and the geographical environment of the targeted school, then analyzing the 2013 PAUD Curriculum to determine the indicators that can be raised in the learning model of the kindergarten watching. The analysis of these indicators results teaching materials for disaster mitigation learning models for children. This teaching materials are compiled as a benchmark for determining the age of the children that is suitable for providing disaster mitigation material that has been designed. After defining the model, the disaster mitigation learning media to early children is designed. This designing takes eight months, which is five months for designing the animated films and three months for creating the media appearance. To test the suitability and feasibility of the media to early children, a media feasibility analysis was carried out through a focus on discussion groups with 15 PAUD teachers in the TK Negeri Lamjabat of Banda Aceh. After correcting the model implementation plan according to the input of the FGD results, an initial trial of the use of the model was carried out before testing the model in a small environment. This article tells about the implementation of disaster alert kindergarten watching learning models in providing self-rescue knowledge and skills for children. The aim is to reduce disaster risk in the early childhood population.

Keywords: Kindergarten Watching, Disaster Mitigation Education, Early Children, Learning Model, Pre-School Education

INTRODUCTION ~ Indonesia experienced a major disaster in five consecutive years, namely: 1). the December 2004 earthquake and tsunami in Aceh which resulted in 165,708 deaths and a loss of Rp. 48 trillion; 2). the Yogyakarta and Central Java earthquakes that occurred in May 2006 which resulted in 5,716 deaths, 156,162 damaged houses and estimated losses of Rp. 29.1 trillion; 3). the Pangandaran tsunami that occurred in July 2006 which resulted in 649 deaths, 1,908 houses were damaged and losses estimated at Rp 138 billion; 4). Jakarta flood, in February 2007 which resulted in 145,742 flooded houses and losses of Rp. 967 billion (Bappenas, 2007). In 2005, the World Conference on Disaster Reduction was held in Kobe, Japan. From this cross-national conference, a joint action framework for disaster risk reduction was drafted and agreed to 2015. The agreement on the mission of building state and community resilience to disasters was
known as the Global Platform for Disaster Risk Reduction with the Hyogo Framework 2005-2015 (Hyogo Framework for Action / HFA 2005-2015). The framework recommends five priority actions to be taken by a country, namely: (1) Ensuring that disaster risk reduction (DRR) is placed as a national and local priority with a strong institutional basis in its implementation; (2) Identifying, evaluating, and monitoring disaster risks and increasing utilization of early warning; (3) Using knowledge, innovation, and education to build a culture of safety and resilience at all levels; (4) Reducing basic risk factors; and (5) Strengthening disaster preparedness with effective responses at all levels.

Strengthening the capacities at the community level is needed to reduce disaster risks at a local level, where the individuals and communities mobilize local resources to reduce vulnerability to hazards (Consortium for Disaster Education, 2011: 3). Now, Indonesia has been committed to the 2015-2030 DRR action framework in the Sendai Framework for Disaster Risk Reduction (SFDRR). This global commitment certainly needs to be reduced to commitment and policy at the local level so that the achievement of DRR in the community can be felt significantly. The valuable learning in HFA that needs to be a reference in implementing the SFDRR is stated below.

1. The key to the successful implementation of national policy is to support concrete actions at the community level.
2. The success of national policies in strengthening resilience at the community level depends on the policies tailored to the specific needs, capacities and vulnerabilities of the community, understanding the different risks at the community level, how risks are received and prioritized by different social and economic groups.
3. The combination of a country approach with grassroots groups with the involvement of government and non-government actors offers the most cost-effective sustainable solutions (with an open, inclusive, local process, building local capacity and respecting local knowledge).

The world of education is one suitable forum for the implementation of the Hyogo Framework 2005-2015 points 1, 3, 4, 5 and the DRR action framework 2015-2030 in the Sendai Framework for Disaster Risk Reduction (SFDRR) point 1 which states the key to successful implementation of national policies is to support real action at the community level. This is very ironic because PAUD schools are the basis of a community of children who are vulnerable groups who need to be protected and at the same time need to improve their knowledge and skills, especially in disaster-prone areas such as Aceh. The school is an institution that is highly trusted by the Indonesian people to 'entrust' their children. The Child Protection Act number
23 of 2002 mandates the importance of education and protection specifically for children. So, it is the duty of the government and the authorities, as well as competent and caring institutions to guarantee the fulfillment of these special education and protection needs.

Providing a model for early childhood teacher prep- shown as separate entities, many of the elements of the aration must begin with a clear vision of a goal. Our goal is to help to prepare teachers who will be able to meet the needs of future generations and help these children work toward meeting their fullest potential as lifelong learners, lifelong readers, and proficient users of technology. These new teachers will need skills to help children develop empathy, have good social skills, and develop into citizens who will care about their communities and the environment. Because communities are increasingly diverse, we need teachers who can successfully work in inclusive, multicultural environments who will meet the needs of all students in these environments.

If our future teachers are going to be able to live up to these expectations, we must have models of teacher preparation that help students secure the tools they need to accomplish these goals (Jacobs, 2001). Preparedness is need not only for facing the disaster but also to reduce the number of victims. There is one way to do such as identify what is the objects that will be dangerous when the disasters occur especially in an earthquake (Sari and Khatimah, 2015). In the province of Aceh, a disaster preparedness school was formed and handled by the Tsunami and Disaster Mitigation Research Center (TDMRC) – Syiah Kuala University. It is a research and capacity building institution in Aceh and functions as LIPI-UNESCO ISDR partner. Information obtained from the TDMRC website (http://tdmrc.unsyiah.ac.id/id/activities/divisi-pendidikan-training-dan-advokasi/sekolah-siaga-bencana-ssb-di-banda-aceh) presented this plan.

The development of Disaster Alert Kindergarten Watching Teaching Model in the context of providing disaster

"The Disaster Alert School Program (SSB) is an activity to build school capacity through strengthening knowledge and attitudes, school policies, emergency response plans, school early warning systems, and resource mobilization based on existing school capacity. The purpose of this activity is to provide understanding, participation and build the commitment of the school community to establish the Alert School Model, the elementary, junior high and middle school level."

From the information, it can be seen that the SSB program has not reached PAUD institutions. Thus, the research on the Development of Disaster Alert Kindergarten Watching Learning Model in the Context of Providing Education of Disaster Mitigation to Early Children in disaster prone areas of the city of Banda Aceh is very original and very important. It
is because there is still lack of information/methods/learning for disaster mitigation to early children.

The Development of the Kindergarten Watching Disaster Preparedness Learning Model began in 2014 as the initial foundation for the emergence of ideas and the search for initial formulations of the model. It is expected that the resulting model qualifies as a learning model. Some preliminary studies that have been carried out include: (1) Amelia (2014: 71-84) is the forerunner of ideas in finding suitable models for the provision of disaster knowledge to early childhood, however this research focuses more on learning which has more effect on children's intelligence abilities. but in this study it has been seen that learning with disaster risk reduction content can be done in early childhood education. (2) Amelia (2015: 151) tried to find a formulation of a simpler model for disaster mitigation knowledge in children with very limited scope integrated with the development of 2 early childhood intelligence (visual spatial and kinesthetic).

The title of the research is the Use of the Kindergarten Watching Method for Earthquake Disaster Preparedness to Stimulate Spatial Visual and Kinesthetic Intelligence in Early Childhood in Kindergarten Abdurrauf Blang Oi Banda Aceh. And Amelia (2015: 26-38) conducted a two-trial study entitled the stimulation of Spatial Visual Intelligence and Kinesthetic Intelligence in Early Childhood through Kindergarten Watching Method for Earthquake Disaster Preparedness in the Integrated Paud Permata Hati Banda Aceh. The aim is to find the basic formulation of the formation of kindergarten watching models for disaster education. Finally, an analysis of environmental needs for disaster mitigation education for early childhood is conducted. Amelia (2017: 399-406) conducted a study on the analysis of the contribution of the role and competence of teachers in the formation of independent character for early childhood in kindergarten in the city of Banda Aceh. The purpose of this study is the basis for analyzing the needs, characteristics and analysis of the PAUD curriculum on disaster mitigation education. It is hoped that with this upcoming research and adequate costs it is expected that the resulting model will truly be a recognized learning model.

Based on several international journal/conference references on disaster mitigation in Indonesia, it is still difficult to find the provision of knowledge and skills to early children specifically. However, the urgency of providing disaster mitigation education has been carried out at the Aiko Sakurai National Symposium on Tsunami Disaster Mitigation 2015, Mizan Bustanul Fuady Bisri, Rina Suryani Oktari, Takashi Oda, (2016,) about the 11 Years Assessment on School Safety and Disaster Education at the Public Elementary Schools in Banda Aceh after the 2004 Aceh Tsunami: Preliminary Findings. His research scope is still for elementary school in Banda Aceh. Suhardjo Dradjat
in his research, concluded that disaster mitigation education in the framework of DRR (Disaster Risk Reduction) needs to be developed through scientific and technological researches related to DRR programs with an appropriate technology approach with the consideration to current local wisdom.

This research information emphasizes the need to increase scientific and technological researches related to DRR programs with appropriate technology approaches by considering local wisdom elements. For this reason, it needs to be a research design that prioritizes the provision of knowledge and skills for early childhood in disaster mitigation efforts because Aceh is a region that is classified as often experience earthquakes in recent years. In order to carry out preventive education and disaster risk reduction to children population, a model design is needed as a teaching material for early childhood education.

The development of disaster alert kindergarten watching models in the context of providing disaster mitigation education to early children is an adoption and development of the Town Watching Method. The Town Watching Method was introduced by Prof. Dr. Ogawa Yujiro in the 2010 Guidebook Town Watching for Disaster Prevention at Fuji Tokoha University. The town watching method is an effort to shape urban communities that respond to natural disasters including earthquakes. The adoption of this town watching method into a learning model of the kindergarten watching through earthquake simulation games in this study is predicted to be suitable for stimulating children’s intelligence which will help children master knowledge and self-rescue skills during an earthquake.

The Town Watching Method has four core stages such as field survey, development map of observation, discussion of problem solving, presentation (Yujiro OGAWA: 2010). The Development of learning models for disaster alert kindergarten watching in the framework of providing disaster mitigation education for early childhood development from the Town Watching method and its implementation in the form of the 2013 curriculum scientific approach.

This study which will develop disaster alert learning models in the context of providing disaster mitigation education to early children is designed in the form of multimedia as a guide for PAUD teachers in integrating disaster risk mitigation education in curriculum and early childhood learning. Since the launch of the school disaster safeness program according to BNPB Head Regulation no. 4 of 2012, specifically in Aceh province, it has not reached the early childhood community. This can be seen from the information obtained from the TDMRC website (http://tdmrc.unsyiah.ac.id/id/activities/divisi-pendidikan-training-dan-
advokasi/sekolah-siaga-bencana-ssb-dibanda-aceh)

This study will develop a special disaster preparedness learning model to early children that can later be integrated by early childhood educators in curriculum and early childhood learning especially in disaster-prone areas in Banda Aceh. In long term, the researchers hope that the output of this research can also be used for earthquake preparedness education for children in other earthquake-prone areas in Indonesia. The steps in this kindergarten watching are derived from four steps in the Town Watching Method (field survey, development map of observation, discussion to solve the problem, presentation) that are modified according to the ability of children in kindergarten. The modification resulted in eight phases of implementation from the four steps in the original method of Town Watching as follows.

1. Field survey is modified into macro survey (direct real environment) and micro survey (scene media for spatial visual intelligence of children) and also in the form of video. In this survey stage, children will be invited to survey the school environment in general (pre-phase) and surveys in the form of micro media to provide knowledge to children about the geographical conditions around children associated with video media (in Phase 1) and regional models (Phase 2).

2. The development of a map of observation in its implementation in kindergarten consists of compiling existing models and creating maps of the school environment and communicating the results of their work (Phases 3 and 4).

3. Discussion to solve the problem in its implementation in the form of discussion on evacuation paths assisted by video media and models with maps produced by children (Phase 5).

4. Presentation in the implementation consists of presentation of evacuation routes, re-survey of evacuation routes and simulation games (Phase 6, Phase 7 and Phase 8).

METHOD

The outline of the research approach using is the Thiagarajan Model in Mulyatiningsih (2011) consisting of 4 stages known as the 4-D model (Four-D model). These stages are the defining stage (Define), the design stage (Design), the development stage (Develop), and the Disseminate stage. The data in this study are in the form of tests of children's knowledge about earthquakes and observation of the positive skills that children bring up a series of activities carried out by children during the implementation of the learning model. The test location was conducted on TK Negeri Lamjabat. It located 1.7 kilometers from the Banda Aceh city of Ulhele. The number of children used as research samples is 111 children and 15 teachers.
Global Perspective on 21st Elementary Education

RESULTS

The following stages are Designing A Professional Model of Disaster Mitigation Education for Early Childhood:

1. Define stage of Disaster Alert Kindergarten Watching Learning Model

The stage of define is the stage of where the researcher analyzes geographical conditions that characterize earthquake-prone areas, children’s characteristics, children’s needs for earthquake disaster knowledge and skills in terms of the demands of the latest curriculum in PAUD to find a concept of disaster mitigation learning models to early children which is in accordance with the characteristics of early childhood development. In this stage, there are four steps included.

   a. Reviewing of the Geographical Environmental Conditions of Children Associated with Earthquake Disasters and Relevant Intelligence Theories

To obtain the description of the geographical conditions of children associated with the concept of earthquake disaster, the researcher will conduct a location survey for two days and determine three schools as research sites with a distance of five kilometers (km) down from the edge of Ule Lhee Beach. From the survey, three schools are chosen as test sites; Sheikh Abdurrauf Kindergarten in Blang Oi Village (3.4 km from edge of Ule Lhee Beach), Tunas Bangsa Kindergarten in Blang Village (1.1 km from edge of Ule Lhee Beach) and Lamjabat Public Kindergarten (1.7 km from the edge of Ule Lhee Beach).

If it is connected with the theory of intelligence, the implementation of this model is very beneficial for children. This linkage can be studied from the theory of multiple intelligence by Howard Gardner. Gardner (in Tadkiroatun in Lina, 2015:29) established nine intelligences which are linguistic intelligence (verbal intelligence), logic-mathematics (number intelligence), spatial visual (image intelligence), kinesthesia movement (body intelligence), musical intelligence, intrapersonal intelligence, interpersonal intelligence, nature intelligence, and existence intelligence. Deriving from the study of Howard’s Multiple Intelligence Theory, this model is suitable to stimulate the nine intelligences, with a slight stimulation effect on musical intelligence. However, the other eight intelligences, it can be maximized as follows.

   a. Logic-mathematics intelligence stimulation can be stimulated when a child counts the number of houses in a model, calculates the number of houses according to colors, calculates the number of trees, looks for the same shape and compares the size of low height, small size in scene media and calculates objects inside and outside the school.

   b. Linguistic intelligence can be stimulated when children are asked to
c. Kinesthetic intelligence can be stimulated during earthquake simulation activities.

d. Interpersonal intelligence can be trained when carrying out the method of making simple models and when playing simulations.

e. Intrapersonal intelligence can be trained when children watch movies, do project assignments, and after simulating earthquakes.

f. Spatial visual intelligence can be trained when the child rearranges the model, or when the child tries to recognize the position of the surrounding buildings and arranges the position of the simple model they make using the project method using styrofoam.

g. Nature intelligence can be stimulated by asking questions about the nature around the child about the earthquake, what plants are around the child and plants that must be present in their simple model.

h. Musical intelligence can be trained when they sing a song about earthquake alert.

i. Spiritual intelligence can be stimulated when giving moral messages after watching videos and during earthquake disaster simulation.

b. Analyzing the Participants to Develop a Learning Outline

To analyze the characteristics of children to develop the design of this learning device, the researcher team conducts an analysis of indicators from Permendikbud No. 137 of 2014 concerning the Standard of Content on the Achievement Level of Development of Children aged near 4-5 and 5-6 by comparing the demands of the indicators of both age groups. The age chosen is the age for which indicators can appear in the designed learning model.

c. Identifying the Main Parts that Will Be Taught and Systematically Arranging the Topics that Will Be Taught

In determining the main parts to be taught, the team hold discussions with peer groups before being taken to the focus group discussion (FGD) forum. The material is based on the demands of the 2013 PAUD curriculum, namely teaching spiritual values, social emotional attitudes, providing knowledge and training in children's skills.

d. Task Analyzing Tasks and Specifications of Learning Objectives

In this step, the children perform seven meetings. In Meeting I, the children are invited to survey their school environment using survey methods, question and answer. In Meeting II, the children are invited to watch animated films about earthquakes and tsunamis, then identify the film material that they remember. In Meeting III, the children are given the opportunity to simulate micro earthquakes using media scene in order to have
concrete experiences about earthquakes. In Meeting IV, the children are asked to work in a small project in choosing images that are in accordance with the conditions of the school, cutting out the image, attaching the image to the ice sticks and sticking to the styrofoam media to form a model simple. In Meeting V, the children are asked to compare the completed models with the models they make to discuss the truth of the evacuation route planned before the macro earthquake simulation. In Meeting VI, the children are asked to compare their scene works with the actual school environment conditions. In Meeting VII, the children are invited to take part in earthquake simulation.

From the description above, it can be defined that the Disaster Alert Kindergarten Watching Learning Model is a disaster mitigation learning model designed for children aged 5-6 years in order to provide knowledge and skills to save themselves from earthquake hazards independently by training them to think right when a disaster strikes, feeling directed when there are no adults directing in an earthquake disaster situation, being introspective, acting appropriately, and fully responsible.

2. Design stage of Disaster Alert Kindergarten Learning

The design stages in this study consist of animated film design, scene media design, model manual design along with the learning tools needed in research such as Daily Learning Program Plan (RPPH). Stages to get the design of learning models for Disaster Alert Kindergarten Watching to early children are carried out in three min stages.

1. Designing prototype learning devices consisting of preparation of test instruments for children, selection of media and creating of learning media to achieve the objectives of the model, selection of format of learning devices that are in accordance with the 2013 PAUD curriculum.

2. Organizing of activity implementation procedures. To make it easier for the researcher team to socialize the steps in implementing the model to PAUD teachers and easy to be re-learned by the teacher when they forget and the team is not near them, the team takes the initiative to write a guidebook for teachers in implementing the Disaster Alert Kindergarten Watching Learning Model.

3. Simulating the presentation of the material with the media and the learning steps that have been designed, this simulation activity is carried out to test the design of the model in the actual environment in a narrow scope to get the initial draft of the Disaster Alert Kindergarten Watching Learning Model.

3. develop stage of Disaster Alert Kindergarten Learning
The design of the trial stage consists of seven meetings that is planned to be held in March 2019. The stages will be implemented as described below.

a. Meeting I: the children are invited to survey their school environment using survey methods and question and answer. The aim is to provide knowledge to children about the surrounding environment in order to train multiple children's intelligence including linguistic intelligence, visual spatial, logic-mathematics, spiritual intelligence, interpersonal intelligence and child intrapersonal intelligence.

b. Meeting II: the children are invited to watch an animated film about the earthquake and tsunami, then identify the film material that children remember. The purpose is to provide earthquake and tsunami disaster counseling for audio type children, visual and audio visual type children.

c. Meeting III: the children are given the opportunity to simulate micro earthquakes using media scene in order to have concrete experiences about earthquakes. The aim is to provide the knowledge of the concept of earthquakes in children who have kinesthetic learning type.

d. Meeting IV: the children are asked to work in a small project in choosing images that are in accordance with the conditions of the school, cutting out the image, and attaching the image to the ice stick and sticking it to the styrofoam media to form a simple model. The goal is that the children will have an overview of the disaster evacuation route in their school environment in a micro way and to be able to place earthquake disaster symbols according to their functions.

e. Meeting V: the children are asked to compare the scene models with the models they make to discuss the truth of the planned evacuation route before the macro earthquake simulation. The goal is that the children will be able to apply their initial knowledge into micro applications as preparation for macro simulation.

f. Meeting VI: the children are asked to compare their scene works with the actual school environment. The goal is that the concept that children get in micro conditions can be applied to children in real life children.

g. Meeting VII: the children are invited to take part in the simulations of the earthquake disaster. The goal is that the children will have knowledge and skills in disaster mitigation by gaining hands-on experience through simulation methods.

The learning approach used is a scientific approach that directs children structured thinking and HOTS (High Order Thinking Skill). The scientific approach used invites children to always observe, ask questions, gather information, reason / associate and
communicate every learning activity undertaken. The learning objectives are directed towards structured thinking that is hots including the ability to think in) Think right, Feel directed, Be alert, Act appropriately, and Responsible completely. The conditions for the trials in the Lamjabat public kindergarten went well even though this was the first activity in the school. Media introduced in the form of animated films, media mockups for earthquake micro tests seem to attract children's attention. And for the process of making mini mockups from styrofoam it ran smoothly. Children's understanding of the concept of earthquake and tsunami generally develops in accordance with expectations and some children develop very well. The teachers began to be able to carry out activities assisted with the provided guidebooks.

The results of observing the ability of children from 111 children can be described as follows:

<table>
<thead>
<tr>
<th>NO</th>
<th>SPECT OBSERVED</th>
<th>BB</th>
<th>MB</th>
<th>BSH</th>
<th>BSB</th>
<th>THINKING ASPECT</th>
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<tbody>
<tr>
<td>A</td>
<td>SPIRITUAL VALUE (K11)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>earthquake is one form of God’s</td>
<td>13</td>
<td>16</td>
<td>32</td>
<td>40</td>
<td>36</td>
</tr>
<tr>
<td>B</td>
<td>EMOTIONAL SOCIAL (K12)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td>do a micro simulation</td>
<td>15</td>
<td>19</td>
<td>26</td>
<td>33</td>
<td>46</td>
</tr>
<tr>
<td>3</td>
<td>follow the rules of playing</td>
<td>18</td>
<td>23</td>
<td>29</td>
<td>36</td>
<td>45</td>
</tr>
<tr>
<td>4</td>
<td>work together to make imitation mockups</td>
<td>12</td>
<td>15</td>
<td>28</td>
<td>35</td>
<td>47</td>
</tr>
<tr>
<td>5</td>
<td>would like to appear presentations of they work</td>
<td>14</td>
<td>18</td>
<td>27</td>
<td>34</td>
<td>46</td>
</tr>
<tr>
<td>6</td>
<td>running quietly during simulation</td>
<td>9</td>
<td>11</td>
<td>35</td>
<td>44</td>
<td>48</td>
</tr>
<tr>
<td>7</td>
<td>nosiness when working on mini mockup projects</td>
<td>15</td>
<td>19</td>
<td>24</td>
<td>30</td>
<td>45</td>
</tr>
<tr>
<td>C</td>
<td>KNOWLEDGE AND SKILLS (K13 dan K14)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>knowing how to make mini mockups according to instructions</td>
<td>14</td>
<td>18</td>
<td>35</td>
<td>44</td>
<td>43</td>
</tr>
<tr>
<td>9</td>
<td>able to tell the purpose of the model made by children</td>
<td>15</td>
<td>19</td>
<td>30</td>
<td>38</td>
<td>43</td>
</tr>
<tr>
<td>10</td>
<td>ran according to the rules when macro simulation</td>
<td>12</td>
<td>15</td>
<td>28</td>
<td>35</td>
<td>50</td>
</tr>
<tr>
<td>11</td>
<td>Get to know the symbols of self-rescue</td>
<td>10</td>
<td>13</td>
<td>32</td>
<td>40</td>
<td>47</td>
</tr>
<tr>
<td>12</td>
<td>is able to tell the contents of the animated film watched</td>
<td>13</td>
<td>16</td>
<td>37</td>
<td>46</td>
<td>50</td>
</tr>
<tr>
<td>13</td>
<td>protect the head when running</td>
<td>20</td>
<td>25</td>
<td>28</td>
<td>35</td>
<td>43</td>
</tr>
</tbody>
</table>
run to an open field and stay away from dangerous places

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<thead>
<tr>
<th></th>
<th>14</th>
<th>11</th>
<th>14</th>
<th>32</th>
<th>40</th>
<th>50</th>
<th>63</th>
<th>18</th>
<th>23</th>
<th>RIGHT ACT</th>
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<tr>
<td>TOTAL</td>
<td>191</td>
<td>239</td>
<td>423</td>
<td>529</td>
<td>639</td>
<td>799</td>
<td>301</td>
<td>376</td>
<td></td>
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<tr>
<td>RATA-RATA</td>
<td>14</td>
<td>17</td>
<td>30</td>
<td>38</td>
<td>46</td>
<td>57</td>
<td>22</td>
<td>17</td>
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</table>

From the above data it can be seen that children who have not developed 17% (14 people), began to develop 38% (30 people) children developed as expected 57% (46 people) and developed very well 17% (22 people). This data proves that even though it is only the first time it has been implemented in school, children can do well above 50% of children, that is developing as expected and developing very well.

CONCLUSIONS

The development of Disaster Alert Kindergarten Watching Learning Model in the context of providing disaster mitigation education to early children is an adoption and development of the Town Watching Method. The Town Watching Method was introduced by Prof. Dr. Ogawa Yujiro in the 2010 Guidebook Town Watching for Disaster Prevention at Fuji Tokoha University. The stages of this study began from analyzing the needs and characteristics of early children and the geographical environment of the targeted school, then analyzing the 2013 PAUD curriculum to determine the indicators that might appear in the learning model.

The results of the indicator analysis emerge that teaching material can be applied in disaster mitigation learning for children and can be a benchmark to determine the age of children that is suitable for providing disaster mitigation material that has been designed. After finding the definition of the model, a disaster mitigation learning media is designed. The media design in this study spends eight months; five months for designing the animated films and three months for creating the scene media.

To test the suitability and feasibility of media, the analysis of media feasibility is carried out through a FGD forum with 15 PAUD teachers in the city of Banda Aceh. The results of the FGD show that there is a need to add accessories to the model in the form of self-rescue symbols and there are residents in the location in the form of scene. To conclude, in terms of the design and media compatibility with the development of the early children’s thinking and learning characteristics is considered appropriate.

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